

**In The Matter Of:**

*Application from Eversource Energy for a Certificate of  
Environmental Compatibility*

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*Hearing Docket No. 461  
February 23, 2016*

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STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Docket No. 461

Application from Eversource Energy for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance, and Operation of a 115-Kilovolt Bulk Substation Located at 290 Railroad Avenue, Greenwich, Connecticut and Two 115-Kilovolt Underground Transmission Circuits Extending Approximately 2.3 Miles Between the Proposed Substation and the Existing Cos Cob Substation, Greenwich, Connecticut, and Related Substation Improvements

Council Hearing held at the Connecticut Siting Council, 10 Franklin Square, New Britain, Connecticut, on February 23, 2016, beginning at 11:00 a.m.

H e l d   B e f o r e :

ROBIN STEIN, Chairman

1    A p p e a r a n c e s :

2

3            Council Members:

4                    SEN. JAMES J. MURPHY, JR.,  
5                    Vice Chairman

6

7                    LARRY LEVESQUE, ESQ., PURA Designee

8

9                    ROBERT HANNON, DEEP Designee

10

11                   PHILIP T. ASHTON

12

13                   DANIEL P. LYNCH

14

15            Council Staff:

16                   MELANIE BACHMAN, ESQ.,  
17                   Executive Director and  
18                   Staff Attorney

19

20                   ROBERT MERCIER  
21                   Siting Analyst

22

23

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1    A p p e a r a n c e s : ( c o n t ' d )

2

3            F o r E V E R S O U R C E E N E R G Y :

4                    C A R M O D Y T O R R A N C E S A N D A K &

5                    H E N N E S S E Y , L L P

6                    5 0 L e a v e n w o r t h S t r e e t

7                    W a t e r b u r y , C o n n e c t i c u t    0 6 7 0 2

8                            B y : M A R I A N N E B . D U B U Q U E , E S Q .

9

10            A l s o F o r E V E R S O U R C E E N E R G Y :

11                    E V E R S O U R C E E N E R G Y

12                    1 0 7 S e l d o n S t r e e t

13                    B e r l i n , C o n n e c t i c u t    0 6 0 3 7

14                            B y : J E F F E R Y C O C H R A N , E S Q .

15

16            F o r T H E T O W N O F G R E E N W I C H , C O N N E C T I C U T :

17                    C O H E N & W O L F

18                    1 1 1 5 B r o a d S t r e e t

19                    B r i d g e p o r t , C o n n e c t i c u t    0 6 6 0 4

20                            J U L I E K O H L E R , E S Q .

21                            D A V I D A . B A L L , E S Q .

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1    A p p e a r a n c e s : ( c o n t ' d )

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3            F o r P E T P A N T R Y :

4                    T H E M A R C U S L A W F I R M

5                    2 7 5 B r a n f o r d R o a d

6                    N o r t h B r a n f o r d , C o n n e c t i c u t    0 6 4 7 1

7                            B Y :    M A R K L . B E R G A M O

8

9            F o r F I E L D P O I N T E S T A T E T O W N H O U S E S :

10                    C H R I S T I N E E D W A R D S

11

12            F o r T H E O F F I C E O F C O N S U M E R C O U N S E L :

13                    J O S E P H R O S E N T H A L , E S Q .

14                    M A R G A R E T B A I N

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1           THE CHAIRMAN: Good morning, ladies  
2 and gentlemen. I'd like to call to order the  
3 meeting of the Connecticut Siting Council today,  
4 Tuesday, February 23, 2016, approximately 11 a.m.  
5 My name is Robin Stein. I'm Chairman of the  
6 Connecticut Siting Council, and we're here for  
7 Docket Number 461.

8           This hearing is a continuation of  
9 hearings held on September 1, 2015, in Greenwich;  
10 and on November 6, 2015; December 1, 2015;  
11 January 12, 2016, here in New Britain.

12           It is held pursuant to provisions  
13 of Title 16 of the Connecticut General Statutes  
14 and of the Uniform Administrative Procedure Act  
15 upon an application from Eversource Energy for a  
16 certificate of environmental compatibility and  
17 public need for the construction, maintenance and  
18 operation of a 115-kilovolt bulk station located,  
19 or to be located at 290 Railroad Avenue in  
20 Greenwich, Connecticut, and two 115-kilovolt  
21 underground transmission circuits extending  
22 approximately 2.3 miles between the proposed  
23 substation and the existing Cos Cob substation in  
24 Greenwich, Connecticut, and related substations  
25 improvements.

1           This application was received by  
2 the Council on June 26, 2015. A verbatim  
3 transcript will be made of this hearing and  
4 deposited with the town clerk's office in the  
5 Greenwich Town Hall for the convenience of the  
6 public.

7           We will proceed in accordance with  
8 the prepared agenda, copies of which are available  
9 by the door. And the first intervener that we'd  
10 would like to call would be Parker Stacy.

11           Not that I can do anything for  
12 Mr. Stacy, but I think we have notified all the  
13 parties and intervenors that this may be the  
14 last -- or this is the last opportunity to appear.

15           (No response.)

16           THE CHAIRMAN: The second  
17 intervener is Mr. Granoff.

18           (No response.)

19           THE CHAIRMAN: Then we'll go to the  
20 grouped intervenors, the Bella Nonna Restaurant  
21 and Pizzeria, Greenwich Chiropractic Nutrition,  
22 Joel Paul Berger and Meg Glass. Is there anybody  
23 representing the grouped intervenors.

24           (No response.)

25           THE CHAIRMAN: Then we have the

1 next intervener, Cecilia Morgan.

2 (No response.)

3 THE CHAIRMAN: Although we don't  
4 have any of those parties or intervenors, what I  
5 would like to ask those who are present whether  
6 there's any objection to allowing the documents  
7 that these parties and intervenors have submitted  
8 to be made part of the record?

9 MS. DUBUQUE: Good morning,  
10 Mr. Chairman. Marianne Barbino Dubuque for  
11 Connecticut Light & Power Company doing business  
12 as Eversource Energy.

13 And I do object to Parker Stacy's  
14 submission for the reason that some of the  
15 information in his filing would require technical  
16 expertise. And there is no foundation that he  
17 possesses that technical expertise, specifically  
18 the statements about undiscovered groundwater and  
19 surface water conditions in the park. If they're  
20 undiscovered I'm not sure how they would be likely  
21 to be seriously and adversely affected, and those  
22 are statements directly from his filing.

23 So I would object to consideration  
24 of those statements that require technical  
25 expertise. I have no objection to that being



1 considered as his personal opinion, but certainly  
2 not as any expert testimony.

3 THE CHAIRMAN: Thank you. Are  
4 there any more? Any other objections?

5 (No response.)

6 THE CHAIRMAN: I think what I'll do  
7 is I'll accept all the testimony for what it's  
8 worth and the Council will take note of your  
9 concerns.

10 MS. DUBUQUE: Thank you,  
11 Mr. Chairman.

12 THE CHAIRMAN: Okay. Now I do  
13 believe we do have the Town of Greenwich present.  
14 So those representing the Town, if you would come  
15 up and sit at the table to our left please?

16 Are you ready?

17 MS. KOHLER: Good morning, Mr.  
18 Chairman, members of the Council. My name is  
19 Julie Kohler. I'm representing Cohen & Wolf,  
20 representing the Town of Greenwich. Also with me  
21 is David Ball. I'd like to present our witness  
22 panel.

23 On my left is Amy Siebert, P.E.,  
24 Commissioner of Public Works. To her right is  
25 Katie DeLuca, AICP, Director of Planning and

1 Zoning; Denise Savageau, Conservation Director.  
2 And to my right, Bruce Spaman, Parks and  
3 Recreation Director.

4 If they could stand and be sworn?

5 A M Y S I E B E R T,  
6 D E N I S E S A V A G E A U,  
7 K A T H A R I N E D e L U C A,  
8 B R U C E S P A M A N,

9 called as witnesses, being first duly sworn  
10 by the Executive Director, were examined and  
11 testified on their oaths as follows:

12 MS. KOHLER: The Town offers eight  
13 exhibits for identification purposes and they are  
14 listed in the hearing program as Roman numeral  
15 11B-1 through 8. At this point I'd ask the  
16 witnesses be allowed to verify the exhibits?

17 THE CHAIRMAN: Go ahead.

18 MS. KOHLER: Ms. DeLuca, did you  
19 prepare or supervise the preparation of Exhibits  
20 1, 2, 3, 4, 5, 6, 7 and 8?

21 THE WITNESS (DeLuca): Yes.

22 MS. KOHLER: And do you have any  
23 clarifications, additions or deletions to make of  
24 those exhibits?

25 THE WITNESS (DeLuca): No.

1 MS. KOHLER: And are they true and  
2 accurate to the best of your knowledge?

3 THE WITNESS (Deluca): Yes.

4 MS. KOHLER: And do you adopt them  
5 here today as your testimony?

6 THE WITNESS (Deluca): Yes.

7 MS. KOHLER: Ms. Sievert, did you  
8 prepare, supervise or modify the preparation of  
9 Exhibits 4, 5, 6, 7 and 8?

10 THE WITNESS (Siebert): Yeah. It  
11 was part of number six, and number seven and  
12 eight. Six, seven and eight.

13 MS. KOHLER: Just six, seven and  
14 eight?

15 THE WITNESS (Siebert): Yeah.

16 MS. KOHLER: And do you have any  
17 additions, clarifications or modifications to make  
18 to those exhibits?

19 THE WITNESS (Siebert): No.

20 MS. KOHLER: And are they true and  
21 accurate to the best of your knowledge?

22 THE WITNESS (Siebert): Yes.

23 MS. KOHLER: And do you adopt them  
24 here today as your testimony?

25 THE WITNESS (Siebert): Yes.

1 MS. KOHLER: Ms. Savageau, did you  
2 prepare or supervise the preparation of Exhibits  
3 4, 5, 6, 7 and 8.

4 THE WITNESS (Savageau): Yes.

5 MS. KOHLER: And do you have any  
6 additions or clarifications to make to those  
7 exhibits?

8 THE WITNESS (Savageau): No.

9 MS. KOHLER: And are they true and  
10 accurate to they best of your knowledge?

11 THE WITNESS (Savageau): Yes.

12 MS. KOHLER: And do you adopt them  
13 here today as your testimony?

14 THE WITNESS (Savageau): Yes.

15 MS. KOHLER: Mr. Spaman, did you  
16 supervise or prepare Exhibit 6, 7 and 8?

17 THE WITNESS (Spaman): Yes.

18 MS. KOHLER: And do you have any  
19 additions or clarifications to make to those  
20 exhibits?

21 THE WITNESS (Spaman): No.

22 MS. KOHLER: And do you adopt them  
23 here today as your testimony?

24 THE WITNESS (Spaman): Yes.

25 MS. KOHLER: With that

1 verification, I'd ask that these exhibits be made  
2 full exhibits.

3 THE CHAIRMAN: Does any party  
4 intervener object to the admission of the Town of  
5 Greenwich exhibits?

6 MS. DUBUQUE: Yes, Mr. Chairman.  
7 On behalf of Eversource I object to the Exhibit  
8 Number 3, comments from the Town of Greenwich,  
9 First Selectman -- I'm sorry, number four,  
10 comments from Greenwich Planning and Zoning dated  
11 November 23, 2015.

12 The resumes of the witness panel do  
13 not disclose any expert qualifications on issues  
14 that require technical expertise, need issues,  
15 alternatives, Cos Cob Transformers, and those type  
16 of issues. And I refer you to the Town's response  
17 to Siting Council interrogatory question 19 where  
18 the Town has admitted it does not have the  
19 engineering expertise. So as to those issues I  
20 don't feel there's any foundation.

21 And I also refer you to page 25 of  
22 26 of the 11/23 comments. And specifically at the  
23 bottom of the page, the second paragraph after the  
24 conclusion reads, that the town staff in trying to  
25 understand this proposal has obtained input from

1 industry professionals who have considerable  
2 knowledge and experience in the design,  
3 construction, maintenance and overhead of  
4 underground transmission facilities throughout the  
5 Northeast along with transmission voltage  
6 substations.

7           They're equally familiar with pipe  
8 tied cable feeders and solid dielectric circuits.  
9 They are thoroughly conversant in construction  
10 costs and methodologies and industry practices  
11 relative to both design and implementation. They  
12 have done extensive work throughout the Northeast.

13           If these industry professionals are  
14 not here then this document contains hearsay. And  
15 to the extent that any of the sworn exhibits that  
16 Eversource has filed are being challenged by this  
17 document, and those are based on qualified  
18 witnesses, we object to admission for that  
19 purpose.

20           THE CHAIRMAN: Do you have a  
21 response to that, Attorney Kohler?

22           MS. KOHLER: I do. I believe that  
23 the November 23rd letter stands on its own and  
24 that the Town does not claim to be an expert.  
25 They don't claim to be an expert in the

1 November 23rd letter. And in fact, the  
2 November 23rd letter was seeking for the Council  
3 and for Eversource to pursue other alternatives  
4 that were raised in the November 23rd letter.

5           It indicated that they believe  
6 there were other alternatives. The Town did its  
7 own research and requested that Eversource and the  
8 Council pursue these other alternatives. I don't  
9 believe that they pretended to be an expert and  
10 put that evidence into the record. And we'd ask  
11 that the Council accept this evidence for what  
12 it's worth, and for what the Town intended for it  
13 to mean.

14           MR. ASHTON: So any claim of  
15 expertise we should ignore?

16           MS. KOHLER: The Town has made it  
17 very clear that it is not an expert.

18           MR. ASHTON: Yes or no would work.

19           MS. KOHLER: Yes, the Town is not  
20 an engineering expert.

21           MR. ASHTON: Thank you.

22           MS. DUBUQUE: Mr. Chairman, I have  
23 one more.

24           THE CHAIRMAN: Yes?

25           MS. DUBUQUE: As to Exhibit 6, the

1 drawings attached to question 1, on their face  
2 they appear to be prepared by Toshiba & WEG, W-e-g  
3 Representatives. And if their drafters are not  
4 here then there really is no witness that can  
5 attest to their authenticity. So I do not believe  
6 that those drawings can be sworn to as evidence.

7 And also there's just no witness  
8 who can explain what these drawings are being  
9 offered for because they just depict apparently  
10 transformers, but they don't show any relationship  
11 to any of the information in this particular  
12 docket.

13 MS. KOHLER: I believe they can be  
14 verified by Ms. DeLuca in the fact that she  
15 contacted these transformer manufacturers. She  
16 provided them information as to the parameters of  
17 Eversource's substation design, and they provided  
18 her responsive information. And the Council can  
19 certainly question Ms. DeLuca as to that  
20 information and gain further elaboration.

21 THE CHAIRMAN: There is a lot of  
22 technical information that has been provided by  
23 the Town. I think we would have hoped that you  
24 would have provided maybe some technical experts.  
25 I think we're relying on, for the



1 cross-examination, to really probe a little deeper  
2 because you raise some critical issues. But  
3 unless your witnesses are prepared to testify, you  
4 know, with expertise on these it's going to make  
5 it a challenge.

6 So in that respect I'm sympathetic  
7 to the objection, however as we generally do, we  
8 will accept the material. You've agreed to the  
9 caveat or the -- it was suggested that apparently  
10 none of you are expert in this area. So I'm going  
11 to let the testimony in for what it's worth.

12 But I do caution you that, you  
13 know, your case would have perhaps been a lot more  
14 helpful if you did provide more than just some  
15 drawings, but anyway. Anything else?

16 MS. DUBUQUE: No that's fine.  
17 Thank you, Mr. Chairman.

18 THE CHAIRMAN: Are there any  
19 objections by any of the other parties  
20 intervenors?

21 (No response.)

22 THE CHAIRMAN: If not, we'll then  
23 admit the exhibits. And we'll now go to  
24 cross-examination starting with Mr. Mercier.

25 MR. MERCIER: Thank you.

1 I'm just going to flip through some  
2 of the questions, the responses that were provided  
3 to the questions to the Council interrogatories.  
4 I'll just begin with question four. In the third  
5 paragraph of the response, I just want to make  
6 sure the value that you provided, the 124.9 is  
7 correct. If you could just look at the previous  
8 two values, 114.8 plus 11.1?

9 THE WITNESS (Deluca): I'm having  
10 difficulty hearing you.

11 MR. MERCIER: Yes, in the third  
12 paragraph, the value of 124.9 MVA was given. I  
13 just want to make sure that value is correct based  
14 on the information on the 114.8 MVA. And I assume  
15 you're adding 11.1 MVA to that?

16 THE WITNESS (Deluca): I think it  
17 would be 125.9, would be the correction there.  
18 Thank you.

19 MR. MERCIER: Thank you.

20 THE CHAIRMAN: I just have a  
21 follow-up on that. Then are you using as the base  
22 of 200 -- the 2015 number, is that what you're --

23 THE WITNESS (Deluca): Yes, of  
24 114.8 MVA.

25 THE CHAIRMAN: Okay. I'll reserve

1 my questions because I have some real difficulty  
2 with that, but I'll wait for my turn. Go ahead.

3 MR. MERCIER: Actually I'm just  
4 going to turn to interrogatory number one. Those  
5 were the diagrams that were just discussed. One  
6 of the diagrams, I'm hoping to show just the  
7 dimensions of the proposed equipment by one of the  
8 manufacturers that you have listed.

9 THE WITNESS (Deluca): Can you  
10 repeat the question?

11 MR. MERCIER: Question number one,  
12 responses to the two diagrams, Exhibit A -- two  
13 Exhibit As, actually. What are these diagrams  
14 attempting to demonstrate?

15 THE WITNESS (Deluca): Oh, sorry.  
16 What I had -- what I had done is I had contacted  
17 the transformer manufacturers and showed them the  
18 OCC-62 floorplan, if you will, of the Cos Cob  
19 substation and had asked whether or not these --  
20 these transformers could fit into that substation.

21 And when you look at the dimension  
22 of the transformers that are shown on the floor  
23 plan, I think when you compare that to the  
24 dimensions shown here -- so on a very simplistic  
25 basis it appears that they would fit.

1           THE CHAIRMAN: Again, can I follow  
2 up? In your communication with the companies, did  
3 you include the testimony from Mr. Bowes so that  
4 they could have at least heard why Eversource has  
5 stated in their third supplement testimony why  
6 this is not possible? It certainly would have  
7 been particularly helpful if your sources had had  
8 this material. Did you provide that?

9           THE WITNESS (Deluca): No, it was a  
10 very generic question.

11           I would read you the e-mail that I  
12 sent to them, but unfortunately I can't seem to  
13 access the Internet. So I -- it was a short  
14 paragraph requesting, you know, just based on size  
15 alone. It did not provide any additional  
16 information other than the transformer.

17           MS. KOHLER: We can certainly  
18 provide that as a late file, if you like.

19           THE CHAIRMAN: I don't know if  
20 we -- based on what I've heard so far, I don't  
21 know whether that would be particularly useful,  
22 since obviously this was Mr. Bowes' testimony.

23           I mean, this is a critical issue  
24 that was first raised by OCC and I certainly would  
25 have hoped that you would have provided, for want

1 of a better term, "more meat on the bone" than  
2 just -- than you would have. And you had this  
3 other information, but let's go ahead. Continue.

4 Mr. Hannon. I'm sorry. We have  
5 another follow-up question.

6 MR. HANNON: Thank you.

7 Again, it's on the same line. I  
8 guess the question is talking about sort of a  
9 floorplan, if you will. Does that take into  
10 consideration part of the existing equipment that  
11 may be below ground? Or was this just something  
12 where here's a flat map and you can pop it in  
13 place, not taking into consideration what may or  
14 may not be below ground?

15 THE WITNESS (Deluca): That's  
16 right. It was just a flat map. So it was, again  
17 it was generic question. Here's the flat map of  
18 the substation with the dimensions shown. Could  
19 you fit 80-MVA transformers in this location? The  
20 response, as you see, was these plans.

21 MR. HANNON: Thank you.

22 MR. MERCIER: Yes, regarding your  
23 discussion with the manufacturers did it also  
24 include any additional equipment or changes that  
25 might be necessary inside the substation to hook

1 this equipment up?

2 THE WITNESS (Deluca): No.

3 MR. MERCIER: Now assuming larger  
4 transformers at Cos Cob could be part of the  
5 solution for additional power supply to  
6 Greenwich -- it's assuming that, and assuming that  
7 Eversource needed to expand their substation  
8 beyond its property line to accommodate the larger  
9 transformers, and assuming that, would the Town be  
10 willing to offer some of its land south of the  
11 substation to support any expansion?

12 THE WITNESS (Siebert): You know, I  
13 think what we're looking at here, taking a quick  
14 look at this, since we don't have any real  
15 information here on the quantity or anything, I  
16 think Eversource is aware it's a capped site.  
17 It's a brownfield site.

18 So we don't really have enough  
19 information from your question to know what, you  
20 know, what the impacts of something like that  
21 might be. That site has been remediated.

22 MR. MERCIER: Okay. Is the site  
23 that's been remediated a town park now?

24 THE WITNESS (Siebert): Correct.

25 MR. MERCIER: Okay. So if they

1 could work around remediation issues and wanted to  
2 expand the substation south towards the some of  
3 the parkland. Would that be amenable to the Town?

4 THE WITNESS (Siebert): Well, it  
5 looks like on this map that they still have some  
6 room between there on what I'm looking at here on  
7 this, on this little map.

8 MR. MERCIER: Right. I'm just  
9 asking you if they needed to go beyond their  
10 property, would the Town be willing to offer some  
11 land up?

12 THE WITNESS (Savageau): Yeah,  
13 there's a couple things. There's the Town  
14 acquired this land as part of a piece of  
15 legislation. It was owned by the State of  
16 Connecticut and transferred to the Town as a piece  
17 of legislation. And it says specifically what we  
18 can and can't do there. So you would have to go  
19 back and change that legislation with the State of  
20 Connecticut to do that. So it's not just the Town  
21 being able to do that.

22 The other part of that is that  
23 because it's a brownfield site, and we went  
24 through the voluntary remediation program with the  
25 Department of Environmental Protection and EPA,

1 they would also have a say on what we could or  
2 couldn't do with the park land because of the  
3 remediation site. So even though it's now park  
4 land and being used that way, because the site is  
5 capped, it was part of a brownfield remediation  
6 and part of that voluntary remediation program we  
7 would have to go through that.

8 MR. ASHTON: Mr. Chairman, this is  
9 not a new topic. Has there been any discussion in  
10 the planning department or in the Town about a  
11 possibility of transferring land to Eversource, or  
12 whichever name they want to go by, so that what  
13 you're trying to do can be accomplished? Has  
14 there been any discussion of intelligent  
15 competence to test this out?

16 I mean, you're saying you don't  
17 know. Well, we know that. This is characteristic  
18 of every municipal transfer I've ever been  
19 associated with, but we've got a specific problem  
20 here that deserves specific significant attention.

21 THE WITNESS (Deluca): As you know,  
22 we've had a long position lasting over many years  
23 now with Eversource and the Town. And we've been  
24 trying to have a collaborative process with them  
25 through this whole process starting many years



1 ago. And that question has never been asked of  
2 us.

3 We've asked about solutions over  
4 time as to how we could go about solving the  
5 problem. One of which was the Metro-North  
6 solution, as an example. We were told at that  
7 time that's off the table. It wasn't until these  
8 new questions of this Council that that even  
9 became an option.

10 So we've been trying to have a  
11 conversation with Eversource for many years about  
12 solutions and we've been told effectively that  
13 this is -- this is the only proposal that they are  
14 willing to put forth. So we are -- our hands are  
15 tied unless we are asked the question ourselves  
16 whether or not we would be -- whether that's an  
17 option, but that has not been presented to us.

18 MR. ASHTON: Or if you choose to  
19 press the point in front of the Siting Council,  
20 which Ms. Kohler I know is very familiar with?

21 THE WITNESS (Deluca): Which is  
22 exactly what we've been trying to do, is raise --  
23 raise the questions, because we've -- we've raised  
24 them with Eversource to date and we've not gotten  
25 very far. So it's not until we're -- we're here,

1 frankly, that we've been able to have a decent  
2 conversation about some of these solutions.

3 MR. ASHTON: Okay.

4 THE CHAIRMAN: Okay. Mr. Mercier?

5 MR. MERCIER: Thank you. I'm going  
6 to move on to question number eleven, response to  
7 number eleven.

8 Now I understand the environmental  
9 and cultural values that were listed in this  
10 response. That being said, how would any of the  
11 three possible or potential horizontal directional  
12 drilling routes through the park affect these  
13 values?

14 THE WITNESS (Deluca): I'm sorry.  
15 Could you repeat the question?

16 MR. MERCIER: In your response you  
17 present many environmental attributes to the park  
18 such as waterfowl use or songbird use, or things  
19 of that nature, but Eversource has proposed three  
20 variations of horizontal directional drilling that  
21 goes pretty much under the park and under the  
22 tidal basin.

23 So I'm just trying to understand  
24 what the Town's view is regarding horizontal  
25 directional drilling that would avoid

1 environmental impact?

2 THE WITNESS (Savageau): So for a  
3 couple things that we are looking at, and some of  
4 the proposed routes have been -- was looking at  
5 taking down some of the urban forest and the  
6 trees, what we need to do there. So we were  
7 concerned about that.

8 In terms of the horizontal  
9 drilling, once we found out that they were going  
10 to be -- or looking at doing the high-pressure  
11 fluid filled lines, we were very concerned about  
12 that. There have been spills. There was a recent  
13 spill within the past several years under Long  
14 Island Sound.

15 And we're looking at -- because  
16 this is an area of a -- where we're looking to  
17 have salt marsh migration, where we're looking at,  
18 you know, maintaining this as a very urban park in  
19 a coastal environment, we're very concerned about  
20 making sure that whatever happens there is  
21 something that could handle that environment.  
22 It's not a freshwater environment. It's a coastal  
23 environment and I think that there's, you know,  
24 challenges there.

25 In Western Long Island Sound we

1 have a lot of water quality challenges in Western  
2 Long Island Sound. We also have one of the most  
3 productive shellfish areas in the whole state of  
4 Connecticut. And so any kind of leakage or  
5 whatever with a spill like that would be  
6 devastating to, not only the town of Greenwich,  
7 but the shellfish industry within the state of  
8 Connecticut.

9           We think that if there's a proven  
10 feasible alternative to going through the park  
11 it's certainly something we would want to explore.  
12 And the high-pressure fluid filled is something  
13 we're very concerned about.

14           The other -- the other part of that  
15 is all of the staging areas that are involved.  
16 And we're not really sure exactly how large that  
17 would be, but this is a big, big project and the  
18 more we learned about it the more we got concerned  
19 about the size of the staging areas and the  
20 impact, certainly in terms of birds, and using  
21 them.

22           You know, a lot of times we look at  
23 sites in terms of, well, what's the long term? So  
24 after the site is closed off and look at the long  
25 term, and that's where we're more concerned about

1 the fluid filled. But during constructions also  
2 has a lot of impact and that impacts the wildlife,  
3 and you know, just the noise, the drilling and  
4 whatever. This is a critical area, so we're  
5 really looking at that as well.

6 MR. MERCIER: Okay.

7 THE WITNESS (Spaman): Bruce  
8 Spaman, Superintendent of Parks. Also I believe  
9 one of the three schemes was an open trench that  
10 ran down the length of Kinsman Lane and Bruce Park  
11 Drive and actually trenched through the ponds. So  
12 there were two sections, two ponds that they were  
13 going to trench through. We feel that was not a  
14 good option for the Town.

15 MR. MERCIER: Yes, and in regards  
16 to the drilling you mentioned several points. I  
17 guess I'll start with the staging areas.

18 I mean, would you agree they are  
19 kind of localized areas in one specific portion of  
20 the park for an install point, and then another  
21 localized area in the receive point for the drill?  
22 Do you agree it's a localized area?

23 THE WITNESS (Savageau): It did.  
24 We're not really sure how large that would be. I  
25 wouldn't say it was just a localized area. I

1 would be looking at, as a staging area, not only  
2 the immediate drilling area, but where they would  
3 be having equipment. Do they need to be, you  
4 know, if they are going to be, you know, sucking  
5 out any of the dredge material that's underneath,  
6 or whatever, how are they going to? Where is it  
7 going to be using trucks? Where's the staging  
8 area going to be? There's a lot more involved  
9 than just the immediate area where they're going  
10 to be drilling down.

11 MR. MERCIER: Okay. For instance,  
12 I guess, one of the routes begins at the Kinsman  
13 Lane as the preferred drill section -- excuse me,  
14 I take that back.

15 It appears two of the drill  
16 segments for the install point would be adjacent  
17 to the ballfield. So would you agree that it  
18 would just be localized in the area of the  
19 ballfield? A localized area, yes, so there would  
20 be trucks according to the description of the  
21 application, and the staging area for the drilling  
22 equipment, but that would just be affecting that  
23 portion of the ballfield.

24 THE WITNESS (Savageau): Unless I  
25 saw detailed drawings with an erosion sediment

1 control plan and how they want to be handling  
2 everything on site I wouldn't be able to say that.

3 A lot of times, you know, whenever  
4 you're doing this type of thing the staging area  
5 isn't just a matter of, like, oh, here's where the  
6 vault is going to be. We would need to look at  
7 more detailed plans. And that's one of the things  
8 I've learned working land use, is that a lot of  
9 times the staging areas get -- become a lot larger  
10 than anybody expects.

11 MR. MERCIER: Okay. Your concern  
12 with the staging area is excessive tree clearing  
13 or damage to the ballfield? What exactly would  
14 the issue be?

15 THE WITNESS (Savageau): All of the  
16 above. Definitely looking at the recreation  
17 areas, but as well as the impact to the whole  
18 area. It's very flat there, so we'd be looking  
19 at, like, okay. What exactly -- how is it going  
20 to impact everything else?

21 We found the trees that might need  
22 to come down, so it depends on where the staging  
23 area is. There's three routes, and three staging  
24 areas could be in different places. So --

25 MR. MERCIER: Have you looked at

1 the drill maps that were provided in the  
2 application, the exact location?

3 THE WITNESS (Savageau): Yes.

4 MR. MERCIER: Now in regards to  
5 tree clearing, again it looks like the ballfield  
6 location might not have any tree clearing. So  
7 that would be something more acceptable than, say,  
8 another area where there were trees? Would you  
9 prefer an open area?

10 THE WITNESS (Savageau): From an  
11 environmental perspective it's not as much impact  
12 with the ballfield, but that's with the exception  
13 of the Town uses that as a, you know, as a  
14 recreation area. So we were looking at trying to  
15 avoid that use of a recreation area. There's a  
16 limited amount of ballfields in town and this is a  
17 very active ballfield that is utilized.

18 And so that the Town was very  
19 concerned about the use of the ballfield, how long  
20 the ballfield would be down, and whether we'd, you  
21 know, be able to put the ballfield back.

22 MR. MERCIER: I believe in the  
23 record it stated that you do that activity in the  
24 winter months when the ballfields aren't used.  
25 Would that be acceptable to the Town?



1                   THE WITNESS (Savageau): The Town  
2 was still very concerned. I know that our parks  
3 and rec director was very concerned about making  
4 sure that we would be able to, you know, utilize  
5 that ballfield.

6                   That said, that doesn't address  
7 some of the other issues of drilling under the  
8 pond and whatever.

9                   MR. MERCIER: As for this spills,  
10 you mentioned spills. Are you stating that you're  
11 concerned that once the pipe is installed under  
12 the pond in the park it could leak?

13                   THE WITNESS (Savageau): Yes.

14                   MR. MERCIER: Okay. And you  
15 mentioned some leak in Long Island Sound?

16                   THE WITNESS (Savageau): Yes.

17                   MR. MERCIER: Do you know what that  
18 Long Island Sound leak was caused by?

19                   THE WITNESS (Savageau): I -- I  
20 don't know exactly what the cause is. I just know  
21 that they had a problem with the high-pressure  
22 fluid filled lines and that material that leaked  
23 in the well -- that leaked into Long Island Sound  
24 is not a good thing, so we're looking into that.

25                   THE WITNESS (Spaman): Also I might

1 say that the scheme that has the trench, or the  
2 drilling set up in the ballfield is going to clear  
3 a 25-foot swath from Kinsman Lane to the -- to  
4 that site to go over land and over the hill there.

5 MR. MERCIER: Yes, I think you're  
6 referring to the orange route that's the variation  
7 two, but there's also another route that kind of  
8 goes through an open area.

9 THE WITNESS (Spaman): There's one  
10 that goes around.

11 MR. MERCIER: The blue route, the  
12 variation of one that avoids many of the tree  
13 clearing that you're talking about. So I think in  
14 the application there were some areas that would  
15 require clearing depending on the route, and some  
16 areas that wouldn't.

17 So I guess what I'm hearing is,  
18 just to confirm, that the Town would prefer less  
19 clearing in the park of trees to maintain the  
20 forest canopy?

21 THE WITNESS (Deluca): I think our  
22 official statement on that is we don't want  
23 anything through the park, particularly when  
24 there's a seemingly viable alternative down  
25 Metro-North, and we feel very strongly about that.

1 THE CHAIRMAN: I think the word  
2 "vehement" was used several times.

3 THE WITNESS (DeLuca): It's a good  
4 word.

5 THE CHAIRMAN: Not objecting to it.

6 MR. MERCIER: Now Ms. DeLuca, in  
7 response to your comment just now I just want to  
8 confirm that, you know, you mentioned one of the  
9 routes in your response. I don't have it in front  
10 of me, unfortunately.

11 I just want to confirm that the  
12 route that you were favoring is the single pole  
13 overhead route that is south of the Metro-North  
14 Railroad and north of Interstate 95. It's the  
15 single pole, not the double-pole route.

16 MR. BALL: Excuse me, you're asking  
17 about LFE-3?

18 MR. MERCIER: Yes. Thank you for  
19 clarifying that for me. I think that was in your  
20 response to question 18.

21 THE WITNESS (DeLuca): Oh, I see.  
22 I think that there's pros and cons to -- to the  
23 variations in the overhead and underground route  
24 through Metro-North. So I think there's --  
25 there's pros and cons. I don't think we've gone

1 as far as to say which ones are more desirable  
2 over another one, other than the Metro-North route  
3 in general is much favored over anything in Bruce  
4 Park.

5 MR. MERCIER: Okay. I guess my  
6 question was for the overhead route, there's two  
7 proposals. One has poles on either side of the  
8 railroad and one that has it only on the south  
9 side of the railroad. So I'm just trying to  
10 confirm which one the Town prefers?

11 THE WITNESS (Deluca): Again, I  
12 think there's a lot of question about -- because  
13 there are pros and cons with -- with that  
14 variation. So I don't think we favor one over the  
15 other.

16 There's obviously the issue with  
17 the sewer line on the southern side. There's the  
18 issue of the vegetative buffer on the northern  
19 side. So there's the height of the poles -- is in  
20 question, whether they use the horizontal pole or  
21 the vertical bulk, whether they could go on the  
22 catenary structures.

23 So there, there's a lot of  
24 questions about the logistics of that route, but I  
25 think the general statement is that that route,

1   whichever variation in Metro-North is chosen, is  
2   more desirable than anything through the park.

3                   MR. MERCIER:   Okay.   Now according  
4   to the plans that Eversource submitted in their  
5   last exhibit, you know, obviously the resultant  
6   tall structures, whether it's the two poles on  
7   either side of the railroad or a single pole, and  
8   you know, these structures will be visible from  
9   areas of town including Bruce Park and residential  
10  areas.

11                   So I just want to know, you know,  
12  how does the Town respond to the visibility of  
13  these pole structures when compared to no  
14  visibility of it at all in an underground route?

15                   THE WITNESS (Deluca):   Well, I  
16  think when you -- when you weigh out all of the  
17  things that are at issue here, the reliability,  
18  the cost and the environmental impacts, I mean,  
19  obviously as you know, their question number one,  
20  the need.

21                   So if we moved past that and I  
22  think then you start looking at some of the cost  
23  issues and some of the environmental impacts.   And  
24  when you again compare these, when you compare  
25  these routes either through Bruce Park or through

1 Metro-North and you look at the potential problems  
2 with going through Bruce Park that we've outlined  
3 in our comments, I think that the benefit of going  
4 down Metro-North far outweighs any negative of  
5 going through Bruce, Bruce Park when you consider  
6 the environmental issues that we believe are very  
7 significant for going through the park.

8 MR. MERCIER: Thank you. And I  
9 have no other questions at this time.

10 THE CHAIRMAN: Thank you. We'll  
11 now have questions from the councilmembers.

12 Senator Murphy.

13 SEN. MURPHY: Thank you,  
14 Mr. Chairman.

15 Just to follow up, Ms. DeLuca, so  
16 basically speaking, and I gather from what you  
17 just said and from reading the material, presented  
18 on behalf of the Town, that as far as the  
19 environmental concerns as the Town views them,  
20 using the Metro-North regardless of the height of  
21 the pole and what have you, those environmental  
22 concerns are less than doing anything in Bruce  
23 Park?

24 THE WITNESS (DeLuca): Right.

25 SEN. MURPHY: That's the bottom

1 line. In other words, A, you don't believe  
2 they've provided further need?

3 THE WITNESS (Deluca): Correct.

4 SEN. MURPHY: After that, assuming  
5 that they have, which is up for grabs at this  
6 point, the main thrust is anything but Bruce Park?

7 THE WITNESS (Deluca): That's  
8 correct and I would just like to --

9 SEN. MURPHY: Go ahead.

10 THE WITNESS (Deluca): Sorry, just  
11 to add to that.

12 SEN. MURPHY: Don't feel sorry.

13 THE WITNESS (Deluca): I appreciate  
14 that. We understand that there's the D and M  
15 process that would follow, should there be an  
16 approval. And obviously we would like to be very,  
17 very involved in that if it gets to that stage,  
18 because things about the height of the poles and  
19 the vegetative buffer replacement, things along  
20 those lines we would like to be very involved in  
21 all of that, and with the infrastructure.

22 SEN. MURPHY: That I can certainly  
23 appreciate, but the backup or follow-up of that  
24 is, why didn't you people come in earlier?

25 THE WITNESS (Deluca): Well, we --

1 we've been, as I mentioned earlier, we've been  
2 working for many years on -- on this and we've --  
3 we've thought that we have been participating,  
4 frankly.

5                   We've found this to -- thought this  
6 was a collaborative process and we've been working  
7 along -- along those lines. If you recall at the  
8 September meeting I stood up at that meeting and  
9 read something, read my comments into the record  
10 at that time.

11                   SEN. MURPHY: A very good thorough  
12 job, I might add.

13                   THE WITNESS (Deluca): Thank you.  
14 I appreciate that. And at that time, you know, I  
15 expressed what -- the journey we've been on thus  
16 far and that we've -- we were working together.

17                   And frankly, the other thing that I  
18 commented on is that this is a complicated subject  
19 matter. Obviously you've seen the evolution from  
20 comments back then to the comments going forward.

21                   SEN. MURPHY: You don't have to  
22 tell us.

23                   THE WITNESS (Deluca): So along  
24 those lines, again we thought we were working  
25 collaboratively when we -- when we read the



1 testimony and heard the testimony that's come out  
2 through the Siting Council process. Frankly, we  
3 were a bit taken aback.

4           As I mentioned, we've been working,  
5 you know, with Eversource in the first selectman's  
6 office, been asking questions. Thought we were  
7 getting, you know, answers to those questions that  
8 were, I don't want to say not truthful because  
9 that's certainly not the case, but when we asked,  
10 is it possible to go down Metro-North? Is it  
11 possible to do these various things?

12           And we were told, no, it's not  
13 possible. The planning and zoning commission  
14 through the municipal consultation filing phase  
15 asked many questions about need. And we,  
16 basically the gist of the response was, thank you  
17 for your questions and we'll deal with it when we  
18 get to the Council.

19           So here we are now and we realized  
20 you're right, late in the game here that we  
21 better -- we better make sure that we're really  
22 protected here. So that's, you know.

23           THE CHAIRMAN: It's not really the  
24 answer.

25           THE WITNESS (Deluca): It's been a

1 learning process.

2 THE CHAIRMAN: Well, the answer --  
3 the question from us, since we were not involved  
4 in the last umpteen years is why, as most  
5 communities that we've, you know, on complex  
6 issues, you didn't file for intervener party  
7 status from day one. But let's -- it is what it  
8 is. It doesn't make any sense to us why you  
9 waited this long, but thank you for at least --

10 SEN. MURPHY: I think things would  
11 have been a lot different if you had been in day  
12 one.

13 THE WITNESS (Deluca): Well, I hope  
14 the same positive outcome will come on this, but I  
15 mean, frankly, I mean I'm not sure that, like I  
16 said, it's been a learning process. Had -- had we  
17 known now -- if we had known then what we know now  
18 I suppose it would have been different.

19 However I mean, we've -- our main  
20 goal in all of this was to ask the question.  
21 Again, we're not energy experts. We've never  
22 purported to be. Starting from day one we've  
23 stated that we're just here to ask the questions.  
24 And we thank you very much, by the way, for asking  
25 it, and to get where we are now.

1                   But had we known that we should  
2 have hired attorneys and filed intervener status  
3 before, we would have. But frankly we're, you  
4 know, we are where we are at this stage.

5                   SEN. MURPHY: But as a municipality  
6 there's more to just asking questions. There's  
7 really a role to be played, too. And that's why  
8 we were surprised you were -- I'm not speaking of  
9 you individually or as individuals. I'm talking  
10 about as the community of Greenwich.

11                  THE WITNESS (Siebert): And just  
12 all I can do is add to Katie's comments that we  
13 believed we were negotiating and discussing and  
14 collaborating in good faith with the utility.  
15 That was our understanding.

16                  SEN. MURPHY: I think I've wasted  
17 enough time with that and I think we'll move on.  
18 Thank you. That's all I have, Mr. Chairman.

19                  THE CHAIRMAN: Mr. Ashton.

20                  MR. ASHTON: Good morning -- I  
21 think it's still morning. I also share a positive  
22 reaction to the written comments that were filed  
23 by the town planner. I thought they were well  
24 done and deserving of deep, of good consideration.

25                  Now there's a couple of things that

1 I do have problems with. I came away from the  
2 table almost with the understanding that the town  
3 planner does not believe that the load in  
4 Greenwich will reach a point requiring a new  
5 substation. Is that fair to say or not?

6 THE WITNESS (Deluca): I think that  
7 is fair to say.

8 MR. ASHTON: It's fair to say?

9 THE WITNESS (Deluca): Based on the  
10 figures that have been presented in their  
11 application.

12 MR. ASHTON: And what basis do you  
13 have for making that conclusion which requires a  
14 lot of understanding of electrical loads and  
15 electrical systems and the like?

16 THE WITNESS (Deluca): I -- I've  
17 come at it from a different tact, if you will --  
18 tack. The area that is shown in the figure in the  
19 application, the red area, if you will. I think  
20 it's E-10, if I recall correctly. That is the  
21 downtown area of Greenwich. That is a developed  
22 area.

23 It is not an area where there's a  
24 lot of vacant land. There's not a lot of growth  
25 potential in that area in terms of the residential

1 areas. I'm talking about environ. That's a built  
2 out area. When you go to the downtown area of  
3 Greenwich, Greenwich Avenue specifically, again  
4 I -- that's an area that is developed. It's an  
5 historic area. There is development potential,  
6 certainly, but not of a great amount.

7           So when I think about what the  
8 needs are for the Town in that, and how we -- how  
9 we plan to grow, you saw the plan of conservation  
10 and development document that I put onto the  
11 record with the November 23rd. And it talks about  
12 how Greenwich is about conservation first and  
13 about development second. So we are not trying to  
14 grow in any great way, such as some of the other  
15 areas in Fairfield County are at this time.

16           So with that backdrop, then when I  
17 look at -- when I looked through the application  
18 and looked at the load and the peak loads for the  
19 2013 -- I don't need to hash through all of that  
20 again, but all of the numbers with the 2013 for --  
21 as that being the peak and then the forecasting  
22 out through 2023, it didn't seem that it added up  
23 to me.

24           So that why I was -- it was more  
25 asking the question than I was stating, stating

1 that there was a definite issue. It just -- it  
2 just seems to me from a layman's standpoint that  
3 something is not adding up when you look at that  
4 growth potential in town and when you look at the  
5 fact, well, what seems to be the 2013 was this  
6 anomaly.

7 MR. ASHTON: And isn't it fair to  
8 say that in many instances plans of conservation  
9 and development are, I'll use my term, "wish  
10 lists?" They don't come to pass necessarily.  
11 They are sort of an objective. If we could do  
12 that it will work out fine. If we can't, so be it  
13 and move on to the next one.

14 THE WITNESS (Deluca): I view it as  
15 the framework for the Town, so almost like the  
16 umbrella. So this is -- this is what we've  
17 decided as a community how we want to grow, and  
18 then you use your zoning regulations to make that  
19 plan come to fruition.

20 MR. ASHTON: And don't zoning  
21 regulations and planning regulations get changed  
22 from time to time depending on what kind of a  
23 red-hot idea a developer brings in?

24 THE WITNESS (Deluca): Yes. Yes,  
25 this is true, but one of the -- one of the things

1 that the planning and zoning commission has to do  
2 when they make an amendment to their zoning  
3 regulation is it has to be in compliance with the  
4 plan of conservation and development.

5 MR. ASHTON: And there's at least  
6 two members of, former members of the planning  
7 commission -- or zoning commissions here?

8 THE WITNESS (Deluca): Yes.

9 MR. ASHTON: So we're fairly  
10 familiar with that, but there's no clear-cut  
11 guaranteed way of ensuring of what the plan of C  
12 and D says is necessarily going to pass. Is that  
13 a fair statement?

14 THE WITNESS (Deluca): I think  
15 that's a fair, you know, general statement.

16 MR. ASHTON: Would you allow that  
17 there has been substantial growth in Greenwich  
18 over the past 40 or 50 years?

19 THE WITNESS (Deluca): What do you  
20 mean by growth?

21 MR. ASHTON: Electrical growth.

22 THE WITNESS (Deluca): Oh well, I  
23 would leave that up to Eversource to answer that  
24 question.

25 MR. ASHTON: I'm sorry?

1                   THE WITNESS (Deluca): I would  
2 leave that up to Eversource to answer that  
3 question.

4                   MR. ASHTON: Okay. I'm sure  
5 Eversource will come back with a handy-dandy  
6 answer. They may even mention the name of an  
7 engineer who worked on some of that.

8                   THE WITNESS (Deluca): But I will  
9 say just in terms of land-use growth, I mean,  
10 we -- one of the things that the plan of  
11 conservation and development does talk about is  
12 maintaining traditional development patterns. So  
13 when you look at the areas within that so-called  
14 red area, those have been basically the same for  
15 the last 40 years.

16                   MR. ASHTON: Oh, I'm certain that's  
17 the case and I know it's the case in a number of  
18 respected well identified towns in the center of  
19 the state. Every one I won't go that far, but a  
20 number of them.

21                                 Who is on the hot seat if load  
22 occurs and facilities are not available to serve  
23 the load?

24                   THE WITNESS (Deluca): Well, I  
25 would assume that's the utility, but -- and I



1 guess that's -- that's why we're asking the  
2 questions that we're asking.

3 MR. ASHTON: That's fair enough.  
4 You can ask the question.

5 THE WITNESS (Deluca): Right.  
6 Because what it seems like when you look at those,  
7 when you look at the loads that have -- that have  
8 been presented and you look at the forecast, just  
9 using the basic math of what we have in 2013 and  
10 what the difference would be in 2023 with the 9  
11 megavolt, and when you look back and you think,  
12 okay, well how are -- perhaps it's not that  
13 simple. It does seem that simple, though.

14 And if you look at how do you get  
15 that, that 9 megavolts and you look, well, could  
16 you do something at Cos Cob? Could you do  
17 something with the switching on all, all of the  
18 things that are in the record? It seems that  
19 there's other --

20 MR. ASHTON: Is there any reason  
21 you can think of that Eversource, or CL&P, or  
22 Northeast Utilities, or whoever it may be would  
23 put forth a plan that would be "improper," I'll  
24 use the word, from any standpoint you can think  
25 of?

1                   THE WITNESS (Deluca): Well, I  
2 would -- I would put it this way. If I wanted to  
3 get from A to B.

4                   MR. ASHTON: Get from what?

5                   THE WITNESS (Deluca): If I wanted  
6 to get from A to B and someone said, here's a  
7 Honda. And another person said, here's a Ferrari,  
8 I suppose I would offer the Ferrari. But do I  
9 think they're acting improperly? No, I have no  
10 reason to believe that.

11                  MR. ASHTON: That's a fair posit,  
12 however let's look at the way the thing might be  
13 constructed. I've got a Ferrari right next to me,  
14 right here. I've got a Honda -- and by the way  
15 the Ferrari is one that's pretty well beaten up.  
16 It could be placed satisfactorily. I've got a  
17 Honda which is a mile and a half down the road and  
18 it's brand-new.

19                  Doesn't that situation throw a  
20 little different curve on the picture as to how to  
21 go about fixing things? Isn't it human nature  
22 almost? Almost -- I didn't say it is -- almost to  
23 put forth the most efficient system possible when  
24 you get into a planning in the town hall, and  
25 Aquarion or what have you? You do what you can

1 afford. Isn't that true?

2 THE WITNESS (Siebert): Yeah. I  
3 think, again you know, you've heard us mention  
4 this before. Again, we're asking the question.

5 You know, when planning these are  
6 difficult issues. As engineers we often like to  
7 be very conservative in our -- our plans. I can  
8 understand that. I deal a great deal with  
9 wastewater, which has certain parallels.  
10 Treatment plants have certain capacities.

11 MR. ASHTON: I haven't seen any  
12 overhead of wastewater lines.

13 THE WITNESS (Siebert): That's  
14 right. That's right.

15 MR. ASHTON: I hope I don't.

16 THE WITNESS (Siebert): Thank  
17 goodness you haven't -- well, there are some  
18 overhead lines here and there.

19 But in terms of capacity and  
20 wanting to make sure that there's room for demand,  
21 there's room for peaks, there are ways to handle  
22 those things. You know, utilities like to build.  
23 You know, oftentimes they find themselves looking  
24 at, do we need a new plant? Do we need a bigger  
25 plant? Or do we need to just rightsize or change

1 equipment?

2                   So again, we're just trying to ask  
3 the question. We're looking at the loads. I  
4 think with the information and the research that  
5 Katie had done we looked at this and said, hmm, we  
6 can't understand wanting new facilities.

7                   You know, it's almost kind of like  
8 a value engineering process that I think it's my  
9 understanding the Siting Council, you know, helps  
10 ask you guys ask all those questions to make sure  
11 that they've looked at all those options and that  
12 it's been looked at very thoroughly. So those are  
13 questions, again that we've been bringing up over  
14 time.

15                   MR. ASHTON: Have you attended all  
16 the hearings on this docket for the last six  
17 months?

18                   THE WITNESS (Siebert): I have not.

19                   MR. ASHTON: Or somebody from the  
20 agency?

21                   THE WITNESS (Deluca): I -- I've  
22 been at three of them, I believe. And I've read  
23 the transcripts from all of them.

24                   MR. ASHTON: Did you feel that the  
25 agency has made an inquiry to find the most

1 efficient way to solve the problem considering  
2 environmental aspects?

3 THE WITNESS (Deluca): I find that  
4 this process has been very, very, very --

5 MR. ASHTON: Nerve-racking. You  
6 can say it.

7 THE WITNESS (Deluca): I think you  
8 have asked many, many questions that are some of  
9 the -- yes, I think you have asked the good  
10 questions. And I've been actually very pleased  
11 with how the process has gone in the sense, again  
12 just reverting back to when the Town asked the  
13 same questions and we didn't get very far.

14 It was -- it's been actually rather  
15 rewarding to have you ask the questions and to get  
16 further than we have. So I do feel that you've  
17 asked questions that have addressed this issue.

18 MR. ASHTON: Okay. One last  
19 question. Do you believe the question or  
20 proposition of an alternate route along the  
21 railroad, which is underground for part of the way  
22 and possibly -- possibly overhead for the balance  
23 of the way, helps your case or solves your  
24 problems?

25 THE WITNESS (Deluca): Well, our

1 first issue is the issue of need. And I do have a  
2 difficulty getting over that based on --

3 MR. ASHTON: So we're stuck on  
4 need. Is that fair?

5 THE WITNESS (Deluca): Yeah, so  
6 assuming we get past that, I do think that that  
7 route, whatever variation that is within the  
8 railroad, solves the environmental issues that we  
9 were greatly concerned with.

10 MR. ASHTON: Thank you,  
11 Mr. Chairman. Now you can let Mr. Hannon have a  
12 whack at need.

13 THE CHAIRMAN: Mr. Hannon.  
14 Thank you, Mr. Ashton.

15 MR. HANNON: Thank you. I do have  
16 a few questions.

17 On the interrogatories question to  
18 page 1 of 1, your response was to say the Town --  
19 it's the first paragraph -- the Town made it clear  
20 they would need to see backup data at some point.  
21 Can you please explain what you mean by backup  
22 data?

23 THE WITNESS (Deluca): I'm sorry.  
24 Where are you?

25 MR. HANNON: It's your response,

1 the Town's response to question two.

2 THE WITNESS (Deluca): Oh, question  
3 two.

4 MR. HANNON: The end of the first  
5 paragraph. You said, the Town made it clear they  
6 would need to see backup data. I'm just curious  
7 as what you mean by backup data?

8 THE WITNESS (Siebert): Well,  
9 throughout meetings with Eversource over time  
10 while they were discussing this, again we took it  
11 on faith as we noted in here that, you know, that  
12 the need was very well established.

13 You know, one of the individuals,  
14 the first Selectman himself said many a time we  
15 definitely want to see -- we want to see numbers.  
16 We did not see any numbers. We were never  
17 provided any actual use values, load values.

18 During the process we were just  
19 talking to them about -- they were talking to us  
20 about the need that they were forecasting, but we,  
21 throughout those many meetings, we didn't have any  
22 numbers.

23 So that's all that means, that we  
24 were looking forward to seeing those numbers,  
25 which I think Katie has explained have been coming

1 out through this process.

2 MR. HANNON: On question six,  
3 page -- oh, I take that back. I'm sorry.  
4 Question 7 on page 2 of 3, can you please describe  
5 what the root is for the Old Greenwich common  
6 force main that you state goes through Bruce Park  
7 to Davis Avenue that has to be, I guess, rebuilt  
8 or at least portions of it reconstructed?

9 THE WITNESS (Siebert): Yes. So  
10 the Old Greenwich common force main is a large  
11 force main in Greenwich that serves multiple pump  
12 stations. It comes -- I'll take you from -- it  
13 comes all the way from Old Greenwich, but when you  
14 come to Indian Field Road in Cos Cob -- actually,  
15 if we go -- if we back up, we go along Sound Shore  
16 Drive in the vicinity of the Cos Cob pump station.

17 We come along Sound Shore Drive to  
18 get to Indian Field road. We go underneath Indian  
19 Field Road. We proceed west between I-95 and the  
20 railroad through an easement through there, all  
21 the way along to Indian Harbor. It goes under the  
22 water there. It heads west.

23 It comes up on a grassed area near  
24 the Bruce Park pump station on Davis Avenue. It  
25 comes up and goes underneath -- well, it comes up.



1 It's up from under the water. It's still buried,  
2 obviously. And it's buried, goes through west to  
3 Davis Avenue where it goes underneath the railroad  
4 tracks and it finally discharges by gravity at the  
5 intersection of Bruce Park Avenue and Davis  
6 Avenue.

7 MR. HANNON: Okay. So that  
8 portion, that goes through Bruce Park?

9 THE WITNESS (Siebert): There's a  
10 very -- there's a small section that's in the very  
11 western -- the western part of the park. It's not  
12 in the bulk of the park that we've been talking  
13 about.

14 MR. HANNON: Is that an area that  
15 needs to be dug up, trenched, things of that  
16 nature? I mean, again part of the reason I'm  
17 asking is because here you've got a force main  
18 where you need to do repair work on that.

19 And part of the response on  
20 question 17 is you're saying that with what  
21 Eversource was proposing, any such construction  
22 would have a devastating environmental impact to  
23 the park.

24 So you're replacing a force main.  
25 They're proposing to put in something different,

1 but you know, is it impossible to equate the two?  
2 So if one is creating environmental problems,  
3 isn't the other one also?

4 THE WITNESS (Siebert): Well, I can  
5 say, you know, that I don't view them as the same  
6 thing. I look at that force main, that force main  
7 is over on a western portion that is really --  
8 well, I guess this section of it is technically  
9 still in a little bit of the park. It's a very  
10 small section.

11 It's serving an existing need.  
12 It's much smaller. It's a 24-inch line, so it's  
13 smaller than, you know, when we do have to replace  
14 it, which you're right. We do have to replace  
15 force mains on occasion. You know, the impact of  
16 taking that out and putting that back in, we can  
17 handle in that area, because we're not in an area  
18 that's full of trees and full of some of the, you  
19 know, other concerns that we -- that Denise has  
20 outlined for the park.

21 You know, I think again the point  
22 that we've tried to make is that by looking at the  
23 three routes, you know, up in the railroad area it  
24 really takes the Bruce Park thing out of the  
25 picture. You know, I don't -- I don't think

1 they're equivalent there. I'm not sure if that  
2 answered your question.

3 MR. HANNON: How deep is the force  
4 main?

5 THE WITNESS (Siebert): I'm not  
6 sure how deep it is at that location. It varies  
7 along its route.

8 MR. HANNON: Rough idea? I'm not  
9 going to hold you to it.

10 THE WITNESS (Siebert): It's  
11 probably at least 3 feet deep. It's probably, you  
12 know, it could be four, five, six. It depends on  
13 what part you're at in the route.

14 MR. HANNON: Okay. Because part of  
15 the reason I'm asking is because the force main  
16 also goes under some water bodies. And if I  
17 remember correctly, and again my memory isn't  
18 always the best, but I thought that the horizontal  
19 drilling that was being proposed by Eversource was  
20 about 30 feet below the bottom of the ponds. It  
21 may be a little bit closer.

22 So if there was a leak there I'm  
23 just wondering what do you think would create more  
24 of an environmental problem if there was a leak  
25 with the lines that Eversource would be proposing,

1 or if there was a problem with the force main?

2 THE WITNESS (Siebert): I think  
3 that's a very interesting question. You know,  
4 honestly what's in a wastewater force main, albeit  
5 not pleasant to most people when it leaks, is  
6 material that has -- may have a short-term impact,  
7 but does not have a long-term environmental impact  
8 because it can be easily digested by all the bugs  
9 and creatures out there, as occurs in the  
10 wastewater treatment plant when it finally lands  
11 there.

12 So it's organic in nature. You  
13 know, while again we don't want to be consuming  
14 it, it is not a toxic substance. So -- and one of  
15 the things we do with our force main is we, you  
16 know, we do replace it typically before it will --  
17 it will break.

18 You know, one of the concerns I  
19 think that we had with some of the material, that  
20 when we learned a little bit more about it on  
21 these HPFF cables, is that it is material that is  
22 rather noxious in nature. It's certainly not  
23 something that you would like leaking out over  
24 time.

25 You know, in my experience I know

1 I'm not a knowledgeable engineer, but dealing with  
2 pipes underground, things do -- do have a service  
3 life. Things can leak. Things can go in  
4 directions which can be unforeseen depending on  
5 the subsurface conditions, which we don't know a  
6 lot about.

7           So I think all those things cause  
8 us to raise concerns and be much more in favor of  
9 seeing something up overhead on the upper, you  
10 know, up along the railroad line and so forth.  
11 Because again, I can't tell you what kind of  
12 conditions it may be even if you're 30 feet below  
13 the surface.

14           What happens when you need to  
15 repair that line? How are you going to do that?  
16 Or is material going to just continue to be pumped  
17 in and dispersed? That could probably be kind of  
18 tricky, too.

19           MR. HANNON: And with the  
20 horizontal drilling that is on the table for this  
21 project, is your concern more once the drilling  
22 has been completed and the lines are in place, or  
23 is it the drilling itself, or is it both?

24           THE WITNESS (Siebert): I think  
25 we're concerned about all of the above.

1 MR. HANNON: Would it make a  
2 difference if bentonite wasn't used as far as the  
3 horizontal drilling?

4 THE WITNESS (Siebert): I'm sorry.  
5 If the what?

6 MR. HANNON: The bentonite. It's  
7 the material that they use. It's like a mud  
8 material that they use for drilling.

9 THE WITNESS (Siebert): No, I think  
10 the, you know, horizontal directional drilling no  
11 matter how you slice it is going to have a large  
12 impact on the park. I think there are clear  
13 concerns that, you know, Denise and Katie have  
14 stated about clearing, about impacts, and again  
15 about long term having that kind of infrastructure  
16 underground. I think all of those concerns are  
17 there.

18 But again, I think we keep trying  
19 to point out that we're glad you all asked  
20 questions about, what about going -- if need is  
21 established, what about going overhead up in an  
22 area where then we wouldn't have to worry about  
23 those issues? We wouldn't have to worry about  
24 that in the future. What are we leaving for  
25 somebody, you know, in the future?

1 MR. HANNON: I don't have anything  
2 else at this time.

3 THE WITNESS (Deluca): Excuse me,  
4 Mr. Chairman. Can I just point out also that  
5 there is no sewer line that goes through the park.  
6 It's a bit confusing. So that there's a tiny,  
7 tiny little portion is -- just to make sure  
8 there's no confusion. There's not a sewer line  
9 that goes through that area.

10 MR. HANNON: Again, just to follow  
11 up on that I was going by what you had responded  
12 in your answer.

13 THE WITNESS (Siebert): It's hard  
14 to explain, yeah.

15 MR. HANNON: And it's that there is  
16 a line that goes through the park.

17 THE WITNESS (Deluca): In a very,  
18 very small section that is right -- well to the  
19 west. So that's what I wanted to clarify because  
20 it is a bit confusing.

21 THE CHAIRMAN: Mr. Mercier?

22 MR. MERCIER: You mentioned there  
23 was a pump house and I think I see it on this  
24 overhead map. Is that related to the sewage main?  
25 Or is that something else?

1                   THE WITNESS (Siebert): It's a  
2 separate. So if you were looking at --

3                   MR. MERCIER: Yes, I see the  
4 location.

5                   THE WITNESS (Siebert): Seven of --  
6 are you on seven of nine?

7                   MS. KOHLER: Is that Late-Filed  
8 Exhibit 3?

9                   MR. MERCIER: I'm on six of nine,  
10 but I know where the station is. I just want to  
11 know, is that a water supply?

12                   THE WITNESS (Siebert): Yeah,  
13 that's the same image. So again, in all this  
14 information, you know, Eversource has our force  
15 main drawings. But we have a force main that  
16 comes, as I said, on the south side of the tracks  
17 along here, and it goes underneath and comes up  
18 there.

19                   There is a gravity line, a small  
20 portion of gravity line up here on Bruce Park  
21 Avenue that goes down, and that feeds into that  
22 small pump house there. And they both have lines  
23 which then go out into Davis Avenue into the  
24 roadway and go on and up underneath Davis Avenue.

25                   MR. MERCIER: Thank you.



1 THE CHAIRMAN: Mr. Levesque?

2 MR. LEVESQUE: I don't have any  
3 additional questions, other than the ones that  
4 were already stated.

5 THE CHAIRMAN: Thank you. I have a  
6 few. I'm not asking anything about Bruce Park. I  
7 read that word "vehement" several times, so  
8 obviously others can ask that, but I do have a few  
9 questions.

10 In your, I guess, it was your  
11 request to become an intervener dated January 11th  
12 of this year and I think I'm quoting correctly.  
13 It says, Greenwich has been afflicted by severe  
14 and lengthy power outages resulting from weather  
15 events in the past. And then I'll get to that  
16 issue of weather events a little bit later.

17 But then also in your response to  
18 question five, I guess, it's in the February 16th,  
19 from the Siting Council, you state that -- and  
20 again, I'm quoting, the project does not address  
21 the fact that older overhead distribution lines  
22 remain susceptible to storm damage.

23 Is it your position that the main  
24 issue of system reliability is related to overhead  
25 distribution lines?

1                   THE WITNESS (Deluca): Is it our  
2 what?

3                   THE CHAIRMAN: Is that your  
4 position that that is the main issue? I see some  
5 nodding yes and I see some --

6                   THE WITNESS (Deluca): Right. Then  
7 as on page 18 of 26, in the November 23rd, that's  
8 where we talk about some of the storm hardening.  
9 And yeah, we -- when we think about reliability we  
10 have an issue with what happens during storms. So  
11 it's right. It is the 13-kilovolt lines that are  
12 of most concern to us reliability-wise.

13                   I've been at cocktail parties as of  
14 late and people would say, what's going on with  
15 this Eversource business? We -- we need, you  
16 know, we need the reliability, and my mother  
17 doesn't have her generator, X, Y and Z. And so  
18 every time you talk to somebody in town the  
19 reliability issue is always about what happens  
20 during storms.

21                   We've gone through the series of  
22 bad storms in 2011, 2012 with Sandy, and those are  
23 the kinds of things that the first selectman has  
24 been working on very hard with Eversource. And  
25 they've come to the table to try to figure out a

1 way so that our -- our needs can be addressed. So  
2 when we have, coming into this project, that  
3 backdrop of this big push to work with Eversource  
4 to deal with the reliability issues that happen  
5 during storm events.

6 So that's why I bring it up, that  
7 when Eversource comes to the Council and they say,  
8 we have this reliability project and it's going to  
9 cost 140 million.

10 We say, oh, you know, we're  
11 concerned about reliability as it relates to these  
12 storm events. We would like to see some of that  
13 addressed and -- with the distribution side of  
14 things.

15 THE CHAIRMAN: Are you, one, aware  
16 that that does not fall under the jurisdiction of  
17 the Siting Council, distribution lines?

18 THE WITNESS (Deluca): Right.

19 THE CHAIRMAN: And two, the  
20 solution is in your hands? All you have to do is  
21 pay for it. And Greenwich, probably more than  
22 almost any community in the state of Connecticut,  
23 is probably able to do that. I mean, you could  
24 sign an agreement with Eversource, have a  
25 cost-sharing agreement, or just pay for it and

1 start tomorrow undergrounding all your lines.

2 THE WITNESS (Deluca): Yeah well,  
3 as I've said, we've been talking about this for  
4 many years. It's not a new topic and we've --  
5 we've been working with Eversource to help with  
6 the distribution system.

7 THE CHAIRMAN: I just gave you a  
8 solution.

9 THE WITNESS (Deluca): Thank you  
10 and I appreciate that.

11 And the reason why it's relevant to  
12 this conversation, though, is that a transmission  
13 line is being proposed and when you look at --  
14 look at some of their late files and they talk  
15 about how the switching, if the switching happens  
16 and the redundancies in the systems in the  
17 distribution system, and you look at that, the  
18 North Greenwich, one of the late files talked  
19 about how there was a lot of switching that  
20 happens so that they could do some maintenance in  
21 the North Greenwich area. That was in 2014 and  
22 2015.

23 It starts, you know, it starts to  
24 beg the question, well, if all that switching can  
25 happen in some of the solutions they're looking at

1 here with the automatic -- with the automatic  
2 switching, knowing that some of it will still be  
3 manual, it is related to the distribution system,  
4 is my point.

5           So if they can -- if they can make  
6 some of these upgrades to the distribution system  
7 maybe there wouldn't be the need for the  
8 transmission line system. So that was the  
9 connection there.

10           THE CHAIRMAN: Okay. Thank you.

11           Let's see. In response to, I  
12 guess, it's the first question from the Siting  
13 Council on page 2 of 2, you question -- and I  
14 think several others, OCC and several others had  
15 questioned the applicant's reliance on the 2013  
16 system peak load, rather than, as you said,  
17 updated peak load from 2014, 2015.

18           I think you make a similar point in  
19 question four and I think -- and unlike where I  
20 was sympathetic to your term of "vehement," I was  
21 very unsympathetic to your statement that the  
22 weather-related incident which created the peak  
23 load in 2013 was an anomaly.

24           And this obviously, I guess,  
25 there's still disagreement on this issue of

1 whether there is such a thing called climate  
2 change, extreme events. But don't you think that  
3 it would be incumbent on all of us, but  
4 particularly our utility, that they should prepare  
5 for that, and that 2013 is not an anomaly? The  
6 anomaly was probably this past year when we had a  
7 record-breaking heat, but it happened in December.

8           But that didn't affect -- probably  
9 in a positive way it affected the electricity  
10 usage for that during that, that December  
11 heatwave, but that could have happened in August  
12 of 2015. It's the hottest year on record -- if  
13 you believe the scientists, and maybe you guys  
14 don't. I don't know.

15           But I'm just really -- I really  
16 take issue with saying 2013 is an anomaly. It's  
17 never going to happen again, just like the  
18 hundred-year storm may have happened three years  
19 ago and the last two years we didn't have a storm  
20 of that category. So let's just forget it. I  
21 mean, you want to try to answer that?

22           Because it really disturbs me that  
23 you're making that -- what seems to be the point  
24 that, you know, it happened in 2013. We're not  
25 going to have any extreme weather events, or if

1 they happen they're going to happen in the winter  
2 and we don't have to worry about them.

3 THE WITNESS (Deluca): Yes, I very  
4 much believe in climate change.

5 THE CHAIRMAN: Well, then don't use  
6 the word "anomaly."

7 THE WITNESS (Deluca): Well, what  
8 happened in 2013 is that you're talking about  
9 those five days and that's their representation,  
10 that even though 2015 was hotter, 2013 had those  
11 five hot days in a row, which is why it went up.

12 But the point I'm trying to make is  
13 that we know that there's 135-MVA capacity that is  
14 in -- that comes out of those transformers in Cos  
15 Cob. And that's -- that's the power available  
16 from the smallest two of the three units there,  
17 and we know that because we have to presume that  
18 the largest of the three is inoperable at any one  
19 time. That's how they have to operate.

20 So for the electrical system in  
21 Greenwich to be in any sort of Jeopardy the  
22 largest transformer has to be out of service and  
23 it has to be blisteringly hot for a period of  
24 time. We know that it's not just -- it's not just  
25 over a long period of time. It has to be a

1 sustained period of time, as they've represented.

2           So the likelihood of that happening  
3 is whatever it is. So if you're willing to grant  
4 them the commission to spend 140 million to  
5 mitigate an occurrence that has -- I don't -- I'm  
6 not an expert in game theory, but I mean I don't  
7 know what that number is. But it has to -- let's  
8 say, one in a million chance of that ever  
9 happening.

10           So by contrast the utility's  
11 original method of preventing that  
12 one-in-a-million happenstance was to construct the  
13 pipe type cable feeder to feed a new substation.  
14 So it has to be quantified that the likelihood of  
15 a pipe type cable feeder failure, which  
16 historically spews petroleum-based dielectric  
17 fluid all about, is an occurrence that is far less  
18 than this potential of those two things happening,  
19 which is that both -- that one transformer is out  
20 and that you have those -- that those five hot  
21 days in a row. So that was the point.

22           Here you are talking about a  
23 potential of this failure, which who knows what  
24 the likelihood of that is? Where we know the  
25 likelihood of there being -- there being an issue



1 with, based on statistics, of the pipe type  
2 failure. I mean, it's -- I would rather put my  
3 eggs in the basket of let's just do the  
4 transformer upgrade in Cos Cob because that would  
5 seem to solve the problem.

6           And to speak to your point, yes, I  
7 do believe there's climate change. Yes, of course  
8 there could be five hot days in a row, but the  
9 likelihood of there being a transformer out during  
10 that time period also seems small to me.

11           THE WITNESS (Siebert): And I think  
12 we wanted to add to that, again we're just asking  
13 the question of -- we saw 2013 data. We're trying  
14 to ask the question of, is it -- I guess that  
15 would be more of a question for you all with your  
16 expertise -- is it typical to design for one  
17 point? Or is it better to incorporate the data  
18 from '14 and '15, which we know now was not  
19 incorporated? Is that a reasonable thing to look  
20 at, because 2015 was pretty dang hot even -- even  
21 in August, that I seem to recall?

22           Again, I can -- you know, we're  
23 just trying to ask that question. I'll take that  
24 wastewater analogy again. You can have a terrible  
25 storm. You can have Hurricane Sandy and have your

1 plant running at a peak flow for a certain period  
2 of time. And yes, that likelihood of that  
3 occurring again, it will happen again, but does it  
4 mean I'm going to build a whole other treatment  
5 plant? Or does it mean I'm going to look at  
6 changing my equipment size? So we're just trying  
7 to ask the question and say, should that be looked  
8 at?

9 THE CHAIRMAN: If there was not  
10 this issue, which at least one of you seem to  
11 agree, of climate change your point would be well  
12 taken. But somewhere in the neighborhood of 80  
13 plus countries in Paris seem to agree that it was  
14 an issue and it's going to get more significant,  
15 not less significant. So coming up with these --

16 Let me finish please, please. I  
17 know you can't wait, but --

18 So coming up with these averages, I  
19 don't think that's how in Europe -- I don't that's  
20 how they figure, for example, whatever the  
21 hundred-year flood or ten-year flood or whatever  
22 is determined. But I don't think that's what  
23 Charleston, South Carolina did.

24 Well, we didn't have any flooding  
25 for two or three years, so let's just lower the

1 standards. And then they got, I think it was  
2 maybe over -- I don't remember, over a 500-year  
3 flood.

4           So I just think in light of climate  
5 change -- which as I say, it's not universally  
6 accepted. But it is -- by those who accept it, at  
7 least one of you seem to say that you did, that  
8 we're going to get more significant events and  
9 they could happen in the summer and not just in  
10 December, but I think we've exhausted that.

11           When I hear taking an average I  
12 get -- I think for forecasting in general it makes  
13 sense, but it's a much bigger challenge in this  
14 day and age.

15           THE WITNESS (Siebert): Yeah, and I  
16 don't think I'm -- I'm not trying to say we're  
17 taking an average and I'm not trying to suggest  
18 you -- I'm just asking if it's -- I think we were  
19 just asking the question about if it's routine to  
20 plan for a peak based on one point.

21           You know, presumably there were --  
22 there was a mass of data in there. And again, if  
23 we're looking at forecasting increases I would  
24 hope that absolutely those increased forecasts  
25 that we talked about in one of our questions in

1 here are based on taking into account some of this  
2 kind of weather that we expect to see.

3 THE WITNESS (Deluca): Even if you  
4 did go -- if you accept the 2013 to 2023 forecast  
5 there's only a difference of 9.2 MVA, and they're  
6 proposing 134 MVA to cover that. So even though  
7 there's less than 7 percent more capacity than  
8 what presently exists they're proposing a  
9 hundred percent to offset that. So even using the  
10 forecast it still is a question to me as to why  
11 134 is needed.

12 THE CHAIRMAN: That's the value of  
13 you being able -- finally deciding to sit at the  
14 table because you can ask those questions. In  
15 your previous stance of just sitting in the back  
16 and sending us very well thought out and  
17 comprehensive reports, you didn't have that.

18 So there is value and I hope you  
19 now appreciate that and it also gives us a chance  
20 to ask whether you consider them useful and not  
21 questions -- or intelligent questions, or not.  
22 Anyway.

23 I did have, I guess, one more, one  
24 more point. In response to your second and third  
25 question you make the point that the Town has not

1 experienced significant population growth and, you  
2 know, there's an area where you don't have to, you  
3 know, bring in an engineer from the West Coast. I  
4 think it's pretty clear that that's correct.

5           And although as Mr. Ashton stated,  
6 there are several of us who have a little bit of  
7 experience in planning and zoning, my guess is  
8 that Greenwich is probably one of the relatively  
9 few municipalities in Connecticut that will  
10 probably stick pretty closely to their  
11 conservation development plan probably when, you  
12 know, when some of your grandchildren are around.

13           But there are more issues, though,  
14 than just population growth, and over time other  
15 things evolve. I mean, homes -- I didn't see any  
16 statistics, but at least we've heard -- and maybe  
17 this is just hearsay -- that homes in Greenwich  
18 tend to be fairly large.

19           And no matter how good and how  
20 efficient they are that, you know, larger does --  
21 as the building is torn down or replaced by  
22 something larger, it may have higher electrical  
23 demand or other things. But that's just an  
24 introduction.

25           Within your conservation and

1 development plan, do you have a -- I saw a couple  
2 of citations to conservation energy, but do you  
3 have a whole section, or do you have a  
4 sustainability plan that deals with the  
5 conservation side and reducing your electric load?

6 THE WITNESS (Savageau): We don't  
7 have a comprehensive plan per se. The  
8 conservation commission is charged with looking at  
9 the energy conservation and we have looked at that  
10 in two perspectives. One is working with our  
11 community, on our community outreach and we've  
12 participated in several of the programs there.  
13 And then the other thing is looking at what the  
14 Town is doing internally.

15 And the Town has been doing a lot  
16 of different energy conservation work, some of it  
17 using some alternative energies, but for the most  
18 part looking at being more energy efficient and  
19 particularly our school system has been doing most  
20 of that.

21 There's, as you know, the clean  
22 energy community program. The Town is  
23 participating in that. We have done the  
24 benchmarking. We kind of got a little bit hung up  
25 on that because there was a transition in staff

1 when we were working with the Connecticut State  
2 University Institute there to do all of our  
3 benchmarking for us. And we now have that on  
4 track so that we have all of that information.

5           And as staff had changed there it  
6 kind of got behind the eight ball a little bit,  
7 but we -- so we do have a program where we're  
8 looking at that and we've really looked at,  
9 particularly with our largest buildings which are  
10 our schools, seeing how energy efficient they  
11 could be.

12           And we're working, and we have a  
13 capital plan that's moving those along to say,  
14 okay. How do we really make sure that everything  
15 is working there? So I think we do have a really  
16 good program in terms of energy efficiency.

17           The other thing is we have, I  
18 think, probably one of the most robust building  
19 departments in the State. And as you know, the  
20 state building codes I think, more importantly  
21 than all the clean energy programs which are  
22 really educating homeowners on how to be more  
23 energy efficient, but the most energy efficiency  
24 is going to be happening because of the changes in  
25 state statute, and the statute requiring the

1 building codes, you know, be updated.

2           So for example, we're looking at,  
3 in 2016, them adopting the new IECC compliance  
4 guide standards for home building for 2012. And  
5 these, you know, have to do with the R factors in  
6 your home and the energy efficiencies in the home.  
7 And I think Connecticut has been on the forefront.  
8 We already have the 2009 standards. There's 2012  
9 standards that are going to be going into effect  
10 statewide.

11           And in a community like Greenwich  
12 where we do have some older housing stock, but we  
13 also have a lot of upgrades, the new building  
14 codes are basically saying, any time you enclose a  
15 port or any time you're doing some type of energy  
16 efficiency work you have to comply with the  
17 standards. So as a community that has -- what  
18 number of building permits a year?

19           THE WITNESS (Siebert): About  
20 2,000.

21           THE WITNESS (Savageau): So we have  
22 a lot of upgrades that are happening. So most of  
23 our homes are probably meeting a lot of these  
24 criterias, which isn't happening in other places  
25 with energy stock. So we're working hard to



1 educate the community, but one of the things that  
2 we have found and we found this, like, when we  
3 were working with -- on the solarize programs and  
4 whatever, there's a lot of our customer -- I'm  
5 saying customers. Our residents are already doing  
6 a lot of work because of anything they've done in  
7 their home and because of the new -- the new  
8 energy codes.

9           And I think it's interesting  
10 because IECC has now come out with 215's -- 2015  
11 standards which bring it even to a higher level.  
12 And as Connecticut updates its building codes --  
13 I'm not sure if it's every two or three years or  
14 however many years they do it, they'll be adopting  
15 those. And I think that's where you're going to  
16 see the real energy efficiencies with where we've  
17 seen them with the water supply side.

18           And I know I serve on the water  
19 planning council advisory group and one of the  
20 things we're hearing from the water utilities is  
21 that they're actually not selling enough water,  
22 and there's a real challenge with them taking in  
23 enough dollars because they're not selling enough  
24 water because of a lot of the energy efficient --  
25 excuse me, the water efficiencies put in from

1 plumbing codes and whatever. And I think you're  
2 going to see those same types of energy  
3 efficiencies happening with the new building  
4 codes.

5           So I think that it's something you  
6 need to be -- we need to be paying attention to as  
7 we're talking about demand and where we're  
8 going -- and needs.

9           THE WITNESS (Deluca): To your  
10 comment, I want to say I absolutely agree with you  
11 that as far as communities go, Greenwich has a  
12 history of sticking to their plan of conservation  
13 and development and not -- not going off course.  
14 So I agree on that point.

15           And I would, also with the  
16 population you've seen a lot of testimony that the  
17 population has not increased and it's not  
18 projected to increase. But I understand also that  
19 from Eversource's comments that it's not  
20 necessarily about the number of people, but about  
21 the load generated by that number of people and I  
22 understand that point.

23           And in the December hearing  
24 particularly there was a lot of talk about this  
25 so-called teardown rebuild and how a lot of that

1 happens in the back country of Greenwich, which is  
2 not in the red area that was -- that's on the map  
3 on E-10. And I would just note that the -- the  
4 significance of that comment is that the Northwest  
5 Greenwich substation is handling that area.  
6 There's a lot of extra capacity in Northwest  
7 Greenwich as has been testified to here. So that  
8 teardown rebuild business I don't think is really  
9 at issue as it relates to their -- their capacity  
10 issues coming out of Cos Cob.

11                   And so again, when you look at it  
12 in that area that seems to be this area of concern  
13 for them. It's an area that's already developed.  
14 And in fact, townwide there's only 175 vacant  
15 parcels and I don't -- I don't know how many of  
16 those are actually buildable. So it may just be  
17 someone split off some land. It doesn't  
18 necessarily mean that it's viable for -- for  
19 development.

20                   So the point again is that  
21 there's -- it's not like there's a lot of great  
22 development potential in that sense as it relates  
23 to this load issue, particularly in the area where  
24 they have identified the need.

25                   THE CHAIRMAN: Again, a quick

1 question. Has Greenwich established an energy  
2 district which allows you to have, you know,  
3 create your own microgrid in a populated area?

4 THE WITNESS (Savageau): So we have  
5 not established the microgrid. We did look at  
6 that when it came out and we were looking to see,  
7 like, okay. Would this, you know, make sense for  
8 us? I did look at what they were looking at in  
9 terms of the award.

10 So for example, in the round one  
11 that came out in July, July of 2013, there were  
12 nine awards made. Most of -- four of them were  
13 for big public facilities that were like  
14 universities, UConn, Wesleyan, University of  
15 Hartford and then the sub base. The rest of them  
16 were all for towns for their public works  
17 facilities or the town hall public works  
18 facilities complex.

19 And actually the Town of Greenwich  
20 already has -- it's not quite a microgrid, but we  
21 just put in a new public safety complex and we  
22 already made sure during that, that building  
23 construction project, that we had the redundancy  
24 for that system. So we have actually -- it's  
25 double redundant in terms of that.

1           So when we were looking at what the  
2 first needs were and what they were looking to  
3 fund during that microgrid program we were already  
4 covered because we had just put in this new  
5 facility. And we have a combination at, not only  
6 the public works facility, but at town hall and a  
7 few of our other facilities that, just like what  
8 other people were putting in, was either diesel or  
9 natural gas generators and whatever. We already  
10 had those in place.

11           Because I think people get confused  
12 about the microgrid. That doesn't solve your  
13 energy problems. It only keeps you online during  
14 emergency situations and we already had that in  
15 place. We haven't had a major one in the downtown  
16 area. With that area being out, it is our  
17 backcountry area with the trees and the  
18 powerlines. So that's where we had that  
19 distribution problem.

20           So that said, there were a couple  
21 of places that we would look at. So as we move  
22 forward if they decide to continue the program we  
23 know there are some challenges with funding up at  
24 the State. We wouldn't be looking at, is there --  
25 do we have an appropriate place to put a microgrid

1 in the town of Greenwich in the downtown area?  
2 And one of the things we probably would look at  
3 would be possibly our library and some of those  
4 places we use for emergency shelters.

5 THE CHAIRMAN: Okay. Thank you  
6 very much. Anybody else?

7 (No response.)

8 THE CHAIRMAN: Okay. We'll proceed  
9 with cross-examination by Eversource.

10 MS. DUBUQUE: Thank you,  
11 Mr. Chairman.

12 I'd like to begin by asking Katie,  
13 at the Siting Council's hearing on January 12,  
14 2016, you informed the Council that because the  
15 Town was a party that you didn't speak for the  
16 Town. And I just wanted to be absolutely clear  
17 that today you do speak for the Town? Is that  
18 correct?

19 THE WITNESS (Deluca): All of us  
20 together here. The first selectman is here also.

21 MS. DUBUQUE: Thank you. Have you  
22 ever worked for an electric utility company in a  
23 planning or forecasting role?

24 THE WITNESS (Deluca): No.

25 MS. DUBUQUE: Have you ever held a

1 position in an organization responsible for  
2 providing reliable electric service?

3 THE WITNESS (Deluca): No.

4 MS. DUBUQUE: I'd like to ask a few  
5 questions about the November 23rd report. And  
6 beginning on page 2 of 26, you indicate at the top  
7 of the page that part of what the Town would do is  
8 assist the Council by imparting your knowledge  
9 about the type and how much inconvenience that the  
10 town residents would be willing to endure in order  
11 to achieve the utility's goal.

12 So is it your position that  
13 reliable electric service is the utility's goal  
14 and not a goal for all utility customers in the  
15 town?

16 THE WITNESS (Deluca): Since it's  
17 the utility's application, that was -- that was  
18 the angle that I was -- that I was going at. So I  
19 should have said, to achieve the utility's goal as  
20 outlined in their application.

21 MS. DUBUQUE: And is it the Town's  
22 position that residents of Greenwich should not  
23 have to experience any inconvenience if it results  
24 from conditions that compromise reliable service?

25 THE WITNESS (Deluca): No, that is

1 not the position. Again, I think we were talking  
2 about the issues that occur when any sort of  
3 project occurs in town. I think what we were  
4 trying to do is -- is make sure that we've  
5 outlined some of our concerns. And again, stating  
6 that we would want to be a part of the D and M  
7 process so that we can work with -- with  
8 Eversource to make sure that it's minimized.

9 MS. DUBUQUE: Moving on to page 3  
10 of 26, you indicate that you are quite surprised  
11 by Eversource's forecast of such vigorous load  
12 growth, and that load growth being 1 percent per  
13 year. In light of the evidence in this docket  
14 that the ISO New England's forecast is 1.2 percent  
15 per year can you explain the basis for your  
16 conclusion that 1 percent would be vigorous?

17 THE WITNESS (Deluca): Yes. The --  
18 again, I was coming at this from more of a  
19 planning standpoint. So looking at the way the  
20 town has already developed and how much  
21 development potential there would be in the town,  
22 so it was more from a land-use standpoint as it --  
23 than it was from an electrical forecasting  
24 standpoint. And --

25 MS. DUBUQUE: Moving on to page --



1 oh, I'm sorry. Did you want to say something  
2 else?

3 THE WITNESS (Deluca): No.

4 MS. DUBUQUE: Okay. Next on page 4  
5 of 26 you indicate that you believe that much of  
6 the forecasting for potential electric consumption  
7 in Greenwich has been influenced by what has taken  
8 place in Stamford and other places, rather than a  
9 careful analysis of what has taken place in  
10 Greenwich.

11 So could you explain the basis for  
12 your belief that Eversource is basing its project  
13 on and its forecasting on events, particularly in  
14 Stamford?

15 THE WITNESS (Deluca): Well, my --  
16 my thought behind that was, as you've just  
17 described, that the ISO is the 1.2. So that,  
18 that's a regional type of way of looking at  
19 something. And again, when you're talking about  
20 the 1 percent, you explained in the record where  
21 you came up with that 1 percent.

22 So my purpose of this, this line of  
23 questioning was if -- if again, bringing it back  
24 to the land use and what's happening in  
25 Greenwich per se, what kind of population growth,

1 what kind of expansion are we expecting? Does  
2 this mirror what Eversource is outlining in their  
3 application?

4                   And you look at -- you look at a  
5 City like Stamford where they have a different  
6 plan of conservation and development, obviously  
7 with different goals than the Town of Greenwich.  
8 So that was -- that was the angle that I was  
9 coming from there, that it seemed that when you  
10 have that kind of growth potential, that it made  
11 more sense for a city than it would for the Town  
12 of Greenwich.

13                   MS. DUBUQUE: And when --

14                   THE WITNESS (Deluca): And --  
15 sorry. And again, just bringing it back to the  
16 rationale of where the 1 percent came from in the  
17 first place, it's coming from more of a regional  
18 angle.

19                   MS. DUBUQUE: And wouldn't Stamford  
20 and Greenwich share same the same concerns about  
21 reliable electric service for the region?

22                   THE WITNESS (Deluca): Oh,  
23 absolutely.

24                   MS. DUBUQUE: And what other places  
25 were you referring to in your comment? You

1 indicate Stamford and other places. Could you  
2 tell us what other places you were referring to?

3 THE WITNESS (Deluca): I think just  
4 in the, you know, frankly just in the Fairfield  
5 County area. I mean that there's going to be a  
6 reason why 1 percent was chosen. So if it's not  
7 for Greenwich specifically, the microcosm of  
8 Greenwich, then it has to be for a regional area.  
9 So it's the region of where we -- where we live.

10 MS. DUBUQUE: Also on page 4 of 26  
11 you discuss the 135 MVA and you referred to the  
12 OA/FA/FA-2 ratings. And can you explain the  
13 differences between these ratings and the sources  
14 for this information?

15 THE WITNESS (Deluca): Yes. The  
16 OA -- well, do you want me to -- I mean, I  
17 explained it on page 4. I can -- I'm happy to  
18 read it into the record if you think that's  
19 agreeable, because I explain what it is on page 4.  
20 Do you want me to read it into the record?

21 MS. DUBUQUE: No. No, it's already  
22 in the record. No, I'm just asking you --

23 THE WITNESS (Deluca): So that's  
24 what OA/FA -- and OA represents oil air. FA  
25 refers to forced air, and FA-2 is a more vigorous

1 version of FA.

2                   And the point here, and I think  
3 this has been answered through the various  
4 interrogatories at this point as to -- as to what  
5 the capacity is of the transformers and, you know,  
6 the relevance of why I was asking the question.

7                   MS. DUBUQUE: My question was  
8 really about how you relate those readings to the  
9 135 MVA?

10                   THE WITNESS (Deluca): Oh, I see.  
11 Okay. So the question I was trying to get at is,  
12 if they are OA, representing the oil air, they  
13 couldn't -- they'd be retrofitted to be more of an  
14 FA-2, meaning that there their capacity would  
15 increase.

16                   So if we're talking about capacity  
17 issues at Cos Cob the thought was if you've got  
18 transformers that could be retrofitted to hold --  
19 to have more capacity, then wouldn't that  
20 potentially solve the problem as opposed to having  
21 to construct a whole new substation and  
22 transmission line?

23                   MS. DUBUQUE: On page 5 of 26 you  
24 mentioned the ANSI standard 57.1200-1010  
25 setting -- well, actually ten-ten I guess it would

1 be correctly -- stating it's setting requirements  
2 for the transformers at Cos Cob substation. Can  
3 you explain what that standard requires at Cos Cob  
4 substation?

5 THE WITNESS (Deluca): So they have  
6 to be able to -- the actual construction of the  
7 transformers has to be such that they can handle  
8 133 percent of the load indicated on the  
9 nameplates for each value, whether it's OA, FA, or  
10 FA-2.

11 So should a transformer whose  
12 nameplate indicates an FA-2 rating to be a hundred  
13 MVA to be subject to a load of 120 MVA -- does not  
14 suddenly become a risk for failure? The sole  
15 ramification of consistently operating this  
16 hypothetical transformer at 133 MVA, which is  
17 133 percent of the nameplate rating, is that its  
18 designed life expectancy is reduced from 30 years  
19 to 25 years. So the point that I was raising --

20 MS. DUBUQUE: I'm sorry. Were you  
21 reading? Can I just interrupt for a moment?

22 THE WITNESS (Deluca): Yes.

23 MS. DUBUQUE: You were reading from  
24 this particular standard?

25 THE WITNESS (Deluca): I was

1 reading page 5 of 26-B. So what I was -- what I  
2 was trying to get at there is that if there are  
3 these instances where you have to go over the  
4 nameplate rating that it doesn't all of the sudden  
5 make the transformer blow up.

6           So if you're in a car and the speed  
7 limit is 65 miles an hour and you have to go  
8 80 miles to overtake someone, does that mean that  
9 because that you're going, you know, beyond what  
10 car should be going at, that is, you know, is that  
11 a problem?

12           So if you're overtaking someone in  
13 the lane, that's one thing. But if you're driving  
14 from Greenwich to Maine at 80 miles an hour maybe  
15 that -- maybe that will have more of an impact on  
16 the car. So that was -- that was what I was  
17 trying to get at here.

18           MS. DUBUQUE: But isn't that  
19 particular standard the standard that defines the  
20 specs for oil-immersed transformer manufacturers  
21 in building transformers?

22           THE WITNESS (Deluca): Isn't it --  
23 can you repeat the question?

24           MS. DUBUQUE: Isn't that particular  
25 standard the standard that defines the

1 specifications for oil-immersed transformer  
2 manufacturers in building the transformers?

3 THE WITNESS (Deluca): Oh, I see.  
4 I'd have to -- I'd have to go back and refer back  
5 to that section to find out.

6 MS. DUBUQUE: Okay. We'll just  
7 move on. On page 8 of 26 you indicate that it may  
8 well be that load projections offered in the  
9 application by the utility are not entirely  
10 accurate. Have you performed any studies or  
11 evaluations of load projections that you believe  
12 are more accurate?

13 THE WITNESS (Deluca): Can you  
14 refer on the page, where you are on page 8?

15 MS. DUBUQUE: Page 8 of 26.

16 THE WITNESS (Deluca): Oh, yes.  
17 Thank you.

18 So again, that that spoke to the  
19 question, which I think has now been answered  
20 through the interrogatories after I wrote this in  
21 November, that the question was if you, or the  
22 issue is that if you have something, you know, a  
23 peak load in 2013 and then we find out that  
24 it's -- it's so much hotter in 2015, why is it  
25 that 2015 had such a lower peak load in the end?

1                   And I think that that has been  
2 addressed by the 2013 having a 5-day period, as  
3 opposed to perhaps not that long of a time in  
4 2015. So that was where I was coming from there.

5                   MS. DUBUQUE: Okay. So my question  
6 was, have you performed any studies or evaluations  
7 of the load projections that you think are more  
8 accurate? Because your statement is that the  
9 information is -- might not be accurate. So I'm  
10 just asking whether you have performed any  
11 studies.

12                   THE WITNESS (Deluca): I have not  
13 performed any studies.

14                   MS. DUBUQUE: Thank you.

15                   On page 9 of 26 you indicate that  
16 it's possible that power could end up in Stamford.  
17 And I'm wondering why this would be an issue for  
18 Greenwich when some Greenwich customers are served  
19 from Stamford?

20                   THE WITNESS (Deluca): But you're  
21 on number 5 on page 9?

22                   MS. DUBUQUE: Page 9 of 26, yes.

23                   THE WITNESS (Deluca): So this,  
24 this came -- what I was asking there, or what I  
25 was commenting on there was power is coming in



1 from Stamford to Cos Cob. So the question was, if  
2 that's the case does that also mean that power  
3 goes from Cos Cob to Stamford? And if that's the  
4 case, perhaps there was some switching that  
5 occurred due to some something that happened here  
6 in that area that would have made the 2013 peak  
7 load higher.

8                   So it was really just asking if  
9 power comes one way, presumably it could go back  
10 the other way. And if that's the case, perhaps  
11 there's something in Stamford that happened during  
12 2013 to have that, to have that peak load such the  
13 way that it was.

14                   MS. DUBUQUE: So it's not the  
15 Town's position that Stamford customers couldn't  
16 be served, or other customers couldn't be served,  
17 and that only Greenwich substation should only  
18 serve Greenwich customers?

19                   THE WITNESS (Deluca): Certainly  
20 not.

21                   MS. DUBUQUE: Thank you.

22                   Page 14 of 26. I'm going to start  
23 first with, did you have a chance to review  
24 Eversource Energy's response to OCC-64 that  
25 included the 2014 usage among the various towns?

1 THE WITNESS (Deluca): I don't have  
2 it in front of me.

3 MS. DUBUQUE: Could you possibly  
4 look at it?

5 THE WITNESS (Deluca): Yeah.

6 MS. DUBUQUE: All set?

7 THE WITNESS (Deluca): Yes.

8 MS. DUBUQUE: So based on this  
9 information that has been sworn to, you can see  
10 the total kilowatt hours for Stamford and you can  
11 see them for Greenwich.

12 Now on page 14 of 26 you state that  
13 it should not be ignored that at present the  
14 electrical consumption of Stamford is more than  
15 three times that of Greenwich. Now is that  
16 consistent with the OCC-64 response based on this  
17 chart?

18 THE WITNESS (Deluca): It doesn't.  
19 It doesn't appear so. This, this data became  
20 available in December.

21 MS. DUBUQUE: So could you possibly  
22 tell us what was the basis is for your opinion  
23 that Stamford's consumption was more than three  
24 times of Greenwich?

25 THE WITNESS (Deluca): I would have

1 to go back and look and see where I -- where that  
2 was. I'm not sure if it was based on the  
3 population. I'd have to go back and look and see  
4 why -- where that came from. I don't have the  
5 answer. I can find out for you.

6 MS. DUBUQUE: No, that's okay. And  
7 would you agree that it appears to be about  
8 60 percent higher based on these numbers, assuming  
9 my math is correct?

10 THE WITNESS (Deluca): I'm not very  
11 good at math. So I'm going to go with what you  
12 said. That's about right.

13 MS. DUBUQUE: Subject to check it's  
14 about 60 percent higher. Thank you.

15 THE WITNESS (Deluca): I'm better  
16 with a calculator.

17 MS. DUBUQUE: Thank you.

18 On page 25 of 26, we're moving to  
19 the end of this document, you state that the  
20 Town's role is to ensure that when a construction  
21 project is completed that the site is left equal  
22 to, or if not superior in every way than it was  
23 prior to commencement of any work.

24 And are you suggesting that this  
25 superior standard be adhered to for this project

1 if it's approved by the Council?

2 THE WITNESS (Deluca): Well, what  
3 I'm suggesting here is that we in the Town very  
4 much want to work with Eversource and we want to  
5 make sure that this, this project is done in such  
6 a way that it works for Eversource and it works  
7 for the Town.

8 And what I mean by that is that we  
9 collaborate together to ensure that the impacts  
10 are minimized during construction and that post  
11 construction the -- whatever the route is, that  
12 it's in a way that is done in respect -- in a  
13 respectful way to the town.

14 MS. DUBUQUE: But my question was,  
15 what would be the standard? Is your standard that  
16 the site be left equal to or superior since you've  
17 stated both in this letter?

18 THE WITNESS (Deluca): Well, if I  
19 have a choice I would go with superior.

20 MS. DUBUQUE: Thank you.

21 THE WITNESS (Deluca): But I  
22 suppose I would -- we would accept equal to.

23 MS. DUBUQUE: And on page 25 of 26,  
24 you may recall earlier when I objected to this  
25 particular exhibit, I read the quotation about the

1 town staff obtaining input from industry  
2 professionals on all of the issues that were  
3 reflected in your letter. But you have not  
4 identified any of those industry professionals.  
5 Correct?

6 THE WITNESS (Deluca): That's  
7 correct.

8 MS. DUBUQUE: And do you have a  
9 written agreement with any of these industry  
10 professionals to provide services in this docket?

11 THE WITNESS (Deluca): No.

12 MS. DUBUQUE: And were these  
13 industry professionals provided with full copies  
14 of Eversource's application at the time of your  
15 letter?

16 THE WITNESS (Deluca): No. It  
17 was -- if I may? It was in the September meeting,  
18 I believe it was. I submitted at that time some  
19 references to the Wisconsin Public Service  
20 Commission. I think they're referred to. So that  
21 that's some written documentation that I used to  
22 get some of this information.

23 MS. DUBUQUE: So it wasn't  
24 necessarily talking to qualified experts. You  
25 were reading articles. Is that what you're

1 saying?

2 THE WITNESS (Deluca): All of the  
3 above, yes. Talking, I spent some time speaking  
4 with Ms. Bachmann. Spent some time, yeah, as I  
5 stated here, with industry professionals with  
6 considerable knowledge and experience. I've  
7 looked at articles, like you said. I've looked at  
8 publications, used the internet, the Energy.gov,  
9 which is where I found the transformer  
10 manufacturers.

11 MS. DUBUQUE: And did those  
12 professionals help you prepare today?

13 THE WITNESS (Deluca): Not  
14 specifically, no.

15 MS. DUBUQUE: And have you  
16 consulted them on an ongoing basis throughout the  
17 docket?

18 THE WITNESS (Deluca): No.

19 MS. DUBUQUE: On page 26 of 26 you  
20 also state that what is available to us at present  
21 seems superficial in its depth of investigation.  
22 Is it still your position that Eversource's  
23 application, 44 exhibits, including about 284  
24 interrogatories and late files, including some  
25 with multiple parts, are superficial?

1                   THE WITNESS (Deluca): At this  
2 stage we're thrilled that the questions have been  
3 asked and we appreciate that they've been  
4 answered. So I don't believe that -- there's a  
5 big difference between where this application was  
6 at the end of the municipal consultation filing  
7 and where it is today.

8                   MS. DUBUQUE: So the depth of the  
9 investigation is no longer superficial?

10                  THE WITNESS (Deluca): It's -- no.

11                  MS. DUBUQUE: Now attached to the  
12 November 23rd report was the Bruce Park overhead  
13 simulations that you submitted to the Council.  
14 And did you submit those with Eversource's  
15 permission, or All-Points' permission?

16                  THE WITNESS (Deluca): Well, once a  
17 document is submitted to the Town of Greenwich  
18 it's subject to the Freedom of Information. So I  
19 wasn't aware that there was any need to do that  
20 considering that it's public record.

21                  MS. DUBUQUE: I just asked the  
22 question if you had their permission?

23                  THE WITNESS (Deluca): Did I ask  
24 them specifically whether that could be done? No,  
25 but just by virtue of the Freedom of Information

1 laws, yes.

2 MS. DUBUQUE: And would you say  
3 that one of the important responsibilities of the  
4 Greenwich Planning and Zoning Commission is to  
5 prepare a long-range plan for future development?

6 THE WITNESS (Deluca): Yes.

7 MS. DUBUQUE: And is reliable  
8 electric service essential for future development?

9 THE WITNESS (Deluca): Yes.

10 MS. DUBUQUE: Is reliable electric  
11 service critical to the day-to-day operation of  
12 businesses in towns, and the comfort and safety of  
13 your residents?

14 THE WITNESS (Deluca): Yes.

15 MS. DUBUQUE: And are you generally  
16 familiar with the Town's annual report for fiscal  
17 year 2013/2014, specifically the building and  
18 inspection division?

19 THE WITNESS (Deluca): I'm more  
20 familiar with the planning and zoning division,  
21 not so much the building inspection division.

22 MS. DUBUQUE: Okay. Would it  
23 surprise you if I told you that there was 2,286  
24 building permits listed in the Town's report,  
25 representing an 8 percent increase over fiscal



1 year '12, 2012/2013?

2 THE WITNESS (Deluca): No.

3 MS. DUBUQUE: And are you aware  
4 that there's a significant number of residential  
5 add and alter permits, that there's actually a  
6 separate category for that?

7 THE WITNESS (Deluca): Yes.

8 MS. DUBUQUE: And that the new  
9 residential permits exceeded a hundred for the  
10 first time since fiscal year 2007/2008?

11 THE WITNESS (Siebert): Yeah, when  
12 we're looking at -- you're looking at which annual  
13 report?

14 MS. DUBUQUE: Annual report fiscal  
15 year 2013/2014.

16 THE WITNESS (Deluca): And which  
17 page are you on? Do you have it in front of you?

18 MS. DUBUQUE: I do have it in front  
19 of me. And it would be on page 113 and 114. And  
20 I only have one other fact. Are you aware of the  
21 construction value reported in that section of the  
22 annual report, about 409 million, a 49 percent  
23 increase over fiscal year 2012/2013 which is the  
24 highest since fiscal year 2007/2008?

25 MS. KOHLER: Are you referring to

1 something that's in the record.

2 MS. DUBUQUE: Yes, the annual  
3 report is in there. There was administrative  
4 notice taken of it, yes.

5 Just are you generally aware of  
6 this building department construction activity?

7 THE WITNESS (Siebert): Yes. Yes,  
8 I can speak to that because what's easy to speak  
9 to that is that in any given year when we're  
10 dealing with certain revenues, if we have a school  
11 that has undergone a large reconstruction we can  
12 often see a bump in our permit revenue from that.

13 We see what Denise spoke to, which  
14 is a lot of the teardown rebuild which we're  
15 talking about. So that while we have a lot of --  
16 when someone might look at it and say, oh, these  
17 are new building permits, it doesn't mean that  
18 it's a newly developed lot from zero. It's,  
19 frequently what it's related to is that somebody  
20 demolished a home and then built a new structure  
21 on the parcel.

22 MS. DUBUQUE: But you don't have  
23 any actual data. That's your understanding of  
24 what these figures mean?

25 THE WITNESS (Siebert): That is --

1 that is what those figures mean. The building  
2 inspection division is part of the department of  
3 public works.

4 MS. DUBUQUE: Okay. Thank you. Do  
5 you know who prepared the Toshiba drawing?

6 THE WITNESS (Deluca): Yes. Well,  
7 I mean, other than Toshiba? What do you mean by  
8 that.

9 MS. DUBUQUE: Who? The person,  
10 please.

11 THE WITNESS (Deluca): I'm going to  
12 have to get onto the Internet.

13 MS. DUBUQUE: That's fine. I'll  
14 move on -- or the WEG drawing for that matter.  
15 Are either of those folks here today?

16 THE WITNESS (Deluca): Oh, no.  
17 They're not here today.

18 MS. DUBUQUE: And did you tell both  
19 Toshiba and WEG that their drawings were being  
20 introduced as evidence in this docket?

21 THE WITNESS (Deluca): No, but  
22 again, they submitted it as -- to a town entity.  
23 They knew that I worked for the Town of Greenwich.

24 MS. DUBUQUE: No, I just ask you if  
25 they knew. Okay. Can you explain the notation on

1 the WEG drawing that says, WEG's property,  
2 forbidden reproduction without previous  
3 authorization?

4 THE WITNESS (DeLuca): It's a  
5 notation on the drawing.

6 MS. DUBUQUE: So would it seem to  
7 suggest that you would need their permission to  
8 file it?

9 THE WITNESS (DeLuca): Well, again  
10 it's filed in a municipal environment, and in the  
11 State of Connecticut environment. So then they --  
12 when I asked, requested the information from them  
13 I stated that I am from the zoning department of a  
14 municipality, and could I please have a drawing?

15 MS. DUBUQUE: Right. But my  
16 question was, wouldn't that notation seem to be  
17 inconsistent with filing something without their  
18 permission.

19 MR. BALL: I'm going to just object  
20 to the line of questioning. I appreciate Attorney  
21 Dubuque's effort to protect Toshiba, but obviously  
22 that when they submitted a document to the Town of  
23 Greenwich at that point the issue is one under  
24 FOIA. It becomes public record, as Ms. DeLuca  
25 stated, rather than surmising as to what that

1 notation is going to be.

2 THE CHAIRMAN: I'm going to both  
3 sustain the objection, and I'm also going to say  
4 we're going to break for lunch. And we will  
5 resume at 1:45.

6 (Whereupon, a recess was taken from  
7 1:01 p.m. to 1:48 p.m.)

8 THE CHAIRMAN: Okay. We'll now  
9 resume the cross-examination with the Town by  
10 Eversource.

11 MS. DUBUQUE: Good afternoon. I'd  
12 like to just go back for just a few more questions  
13 about the transformer drawings, just quickly. Do  
14 you know if they included the tap changer that  
15 Mr. Bowes mentioned was necessary in his prefiled  
16 testimony?

17 THE WITNESS (Deluca): I did not  
18 request a tap changer, so I don't believe that  
19 they did.

20 MS. DUBUQUE: Okay. So if they  
21 don't have a tap changer, do you know how  
22 Eversource would be able to control voltage?

23 THE WITNESS (Deluca): No, but I  
24 would -- I think part of the -- no, I don't.

25 MS. DUBUQUE: Okay. And I think

1 you stated that these drawings were just furnished  
2 to you by the manufacturers. So there was no  
3 sense of compatibility with Eversource's equipment  
4 or the requirements of ISO New England's operating  
5 procedures, or any of the clearances in the  
6 national electrical safety code?

7 THE WITNESS (Deluca): Well, I had  
8 sent them the floorplan for the station. And so I  
9 assumed based on the fact that they're a  
10 manufacturer that they would look at the plan and  
11 see whether or not an 80-MVA transformer could fit  
12 there. So I did not specifically ask them about  
13 those specifics.

14 MS. DUBUQUE: Okay. And do you  
15 know if they would require foundations?

16 THE WITNESS (Deluca): I didn't ask  
17 them that specific question.

18 MS. DUBUQUE: Now in the  
19 interrogatory responses, question 1 at the bottom  
20 you referred to 80-MVA transformers, two 80-MVA  
21 transformers as being sufficient. If one of those  
22 transformers was out of service such as for  
23 maintenance do you know how Eversource would be  
24 able to serve the load of that transformer that  
25 goes out?

1                   THE WITNESS (Deluca): Oh, I  
2 think -- no. I had assumed that there would be  
3 three transformers there, but only two of them  
4 would be, you know, based on how these things  
5 work. So only two would -- assuming that the  
6 third was out of service, that that would be two  
7 at any time.

8                   So that's where you get the 160  
9 MVA, which exceeds the 134. So the assumption was  
10 that there was three, but one of them would be  
11 inoperable.

12                  MS. DUBUQUE: Okay. And assuming  
13 for the sake of argument that these larger  
14 transformers could fit at Cos Cob and they would  
15 provide more capacity, how with the Town propose  
16 to solve the problems that the project addresses  
17 with respect to the overloads on the feeders  
18 between Cos Cob and Prospect?

19                  THE WITNESS (Deluca): Well, I  
20 would just say we're not suggesting that we -- to  
21 have a solution. We're just asking the question.  
22 So it seems starting back with the transformers  
23 that the question is -- that the issue is that  
24 there is a need issue.

25                  So the question is, couldn't that,

1 that need issue be addressed with the transformer  
2 upgrade? I understand that there's these others  
3 with the -- with the line going from Cos Cob to  
4 Prospect and then the transformer at Prospect. So  
5 that's why I asked, asked the question yet again,  
6 couldn't there be a 27-K line upgrade?

7                   So you had testified at one point,  
8 Eversource had, that there was some fixes to the  
9 lines that were needed over the years recently.  
10 So the question was, couldn't -- couldn't that  
11 line just be upgraded?

12                   And conversely couldn't the  
13 Prospect transformers be upgraded? And/or  
14 couldn't there be some switching that occurred  
15 along the whole distribution network that would  
16 negate the need for that transmission line? So it  
17 was questions as opposed to problem solving.

18                   MS. DUBUQUE: And I believe you  
19 said that you, the Town's position is that the  
20 re-closers could help solve the problem and  
21 improve reliability in Greenwich. And are you  
22 aware that if you added re-closers you would have  
23 to increase the height of poles in Greenwich?

24                   THE WITNESS (Deluca): Well, that  
25 was the -- that was the issue with the reliability



1 with the distribution line.

2 MS. DUBUQUE: Right, but that's  
3 what you would have to do.

4 THE WITNESS (Deluca): Right.  
5 Right.

6 MS. DUBUQUE: You would have to add  
7 higher poles and also you would need more tree  
8 trimming?

9 THE WITNESS (Deluca): Right.

10 MS. DUBUQUE: And is it the Town's  
11 position that more tree trimming would be  
12 advantageous?

13 THE WITNESS (Siebert): More  
14 advantageous in -- I don't -- what do you mean by  
15 your question? I'm not sure I'm fully following  
16 your question.

17 MS. DUBUQUE: Well, in terms of  
18 your solution that if you were asking the question  
19 about additional re-closers, that tree trimming  
20 would be necessary in order to implement that  
21 solution. So if --

22 THE WITNESS (Siebert): So if what  
23 you're talking about is tree trimming in specific  
24 locations to address specific pieces of  
25 infrastructure, I think that's something that the

1 Town has always been happy to work with Eversource  
2 on.

3 The Town saw the changeover of  
4 poles along, for example, the length of North  
5 Street. Much taller poles going in, and they  
6 supported that project. We helped make sure  
7 traffic could flow while that was going on in  
8 order to help the health, so to speak, of the  
9 distribution network.

10 MS. DUBUQUE: And you've indicated  
11 that the Town would still be vulnerable to storm  
12 outages, but Mr. Bowes has testified on  
13 October 6th that -- and in response to OCC-80,  
14 automation between Cos Cob substation and the new  
15 Greenwich substation could automatically restore  
16 power. So --

17 THE WITNESS (Deluca): Well, he  
18 said, in essentially all of the town, because he  
19 did -- he did also state in October that there  
20 was a significant -- that there were areas of town  
21 that would still be subject to the manual  
22 switching.

23 MS. DUBUQUE: Correct. But again,  
24 you've indicated that this project does not help  
25 with the storm outage situation. And in light of

1 this testimony have you reevaluated that position,  
2 that some of Greenwich would be improved with the  
3 new Greenwich substation, in effect, as part of  
4 the addressing storm outages?

5 THE WITNESS (Deluca): Well, I  
6 think if there's -- I mean, obviously there's  
7 redundancy built into the distribution system  
8 already with switching. And so if there's any  
9 increase in that switching for it to be automatic,  
10 I think that that's valuable. Presumably that can  
11 happen on the distribution system without a  
12 transmission system being employed.

13 So again, with Mr. Bowes' testimony  
14 he was -- he was acknowledging that a portion of  
15 the town would still be manual. So I think any  
16 move towards automatic is positive, but obviously  
17 there's a balance in there.

18 MS. DUBUQUE: And you also  
19 mentioned the 4-kV conductors, undergrounding 4-kV  
20 conductors, 13.2-kV conductors. And would the  
21 Town be willing to pay for the service conversions  
22 because each customer would need to be converted?

23 THE WITNESS (Deluca): Well, I  
24 think that's a much bigger question. I mean, we'd  
25 obviously have to understand more about -- about

1 specifically about what you're referring to there.

2 MS. DUBUQUE: Well, in your filings  
3 you've indicated that you think that part of the  
4 reliability of the system could be improved by  
5 varying these conductors, but there are costs  
6 associated with these conductors. And I'm trying  
7 to get at who you think would be paying those  
8 costs?

9 THE WITNESS (Deluca): Well, I  
10 would just say that we're -- we would like to  
11 continue to work with Eversource to upgrade the  
12 distribution system.

13 MS. DUBUQUE: And are you aware  
14 that PURA actually requires the replacement of  
15 overhead distribution facilities with  
16 undergrounding to be at the Town's expense, not at  
17 Eversource's expense?

18 THE WITNESS (Deluca): Well, I  
19 don't -- I mean, are we talking about the  
20 transmission line application, or are we talking  
21 about redoing the distribution system throughout  
22 town?

23 MS. DUBUQUE: Well, we're talking  
24 about the Town's position in these comments, that  
25 this project is not needed because you could be

1 doing these other things to the distribution  
2 system.

3                   So I'm trying to get at if you're  
4 going to do the things that you suggest, including  
5 the additional re-closers and the undergrounding.  
6 And you have stated that this would strengthen the  
7 reliability of service in town and there wouldn't  
8 be a need for this project. Then I'm trying to  
9 get at where -- what is this position based on and  
10 who would be paying for it?

11                   MS. KOHLER: I'm sorry. Are you  
12 addressing a particular interrogatory response?  
13 That might be helpful.

14                   MS. DUBUQUE: Yes, I referred to, I  
15 think in the very beginning it was question six  
16 that cites these -- it's question five, which  
17 indicates that the project does not address storm  
18 hardening, and you have these options. So could  
19 you tell me more about these options in terms of  
20 who would pay for these options for the changes to  
21 the distribution system?

22                   THE WITNESS (Deluca): Oh, I see.  
23 Okay. No, not at -- I don't think we could at  
24 this time because we don't -- we don't have a  
25 proposal in front of us that addresses those

1 things.

2 MS. DUBUQUE: And for the storm and  
3 non-storm events are you aware of what the leading  
4 cause of electrical outages is?

5 THE WITNESS (Deluca): For --  
6 sorry. For storm and?

7 MS. DUBUQUE: Storm and non-storm  
8 outages, what is the leading cause for electrical  
9 outages? I'm just checking if you know.

10 THE WITNESS (Spaman): Trees.

11 MS. DUBUQUE: Can you repeat?

12 THE WITNESS (Spaman): Trees.

13 MS. DUBUQUE: And would you say  
14 that the Town would be more supportive of enhanced  
15 tree trimming to improve the distribution system?

16 THE WITNESS (Deluca): Well, I  
17 think that all we can say is we'd like to work  
18 with Eversource to increase the reliability of the  
19 distribution system with a plan, you know, and a  
20 discussion and a collaboration.

21 MS. DUBUQUE: You've mentioned that  
22 you think there should be some additional  
23 undergrounding for the hybrid route. Is that  
24 correct?

25 MR. BALL: Are you talking about

1 LFE-3, the proposed route along the Metro-North  
2 Railroad?

3 MS. DUBUQUE: Yes.

4 THE WITNESS (Deluca): I don't  
5 think -- actually, the answer to Mr. Mercier  
6 earlier today, our position is that we favor the  
7 overhead/underground hybrid route over Bruce Park,  
8 but the variation within that Metro-North line we  
9 have not taken a position on.

10 Can you repeat the question? I'm  
11 sorry.

12 MS. DUBUQUE: I asked about the  
13 additional undergrounding on the hybrid route.

14 MR. BALL: Is there a particular  
15 interrogatory that you were referring to?

16 MS. DUBUQUE: I'll go back to that  
17 question. I know we're pressed for time.

18 THE WITNESS (Deluca): If you're  
19 referring to the last, the easternmost pole?

20 MS. DUBUQUE: Yes.

21 THE WITNESS (Deluca): Yes. Yes,  
22 we would prefer that to be either underground in  
23 that area or either shifted, shifter further --  
24 no, I'm sorry. No, it would be the western most  
25 pole and we would want it to be shifted to the

1 east further and/or underground from the  
2 penultimate pole.

3                   The reason being that that  
4 intersection there with Greenwich Avenue,  
5 Steamboat Road, Railroad Avenue and Bruce Park  
6 Avenue is a very common intersession of our  
7 downtown. And so to have that large pole there we  
8 questioned whether it was possible to increase the  
9 section of underground in that area and/or offset  
10 the pole so it's not such a prominent part of the  
11 intersection.

12                   MS. DUBUQUE: So that would be an  
13 aesthetic concern, largely?

14                   THE WITNESS (Deluca): Yes.

15                   MS. DUBUQUE: Would you like us to  
16 stop now?

17                   THE CHAIRMAN: Yes, I guess we have  
18 to. We have an anomaly in our process for reasons  
19 which I won't go into. We have to briefly open  
20 another docket. We will resume 461 very shortly.

21                   (Whereupon a recess was taken from  
22 2:01 p.m. to 2:21 p.m.)

23                   THE CHAIRMAN: We'll now resume  
24 Docket 461, cross-examination of the Town by  
25 Eversource.



1 MS. DUBUQUE: Mr. Chairman, thank  
2 you, but I have no further questions.

3 Thank you, panel.

4 THE CHAIRMAN: So now, next will be  
5 cross-examination, if there is any, by the Office  
6 of Consumer Counsel.

7 MR. ROSENTHAL: We have no cross  
8 for this panel. Thank you, Mr. Chairman.

9 THE CHAIRMAN: Thank you.  
10 Cross-examination by Parker Stacy?  
11 (No response.)

12 THE CHAIRMAN: The attorney for Pet  
13 Pantry?

14 MR. BERGAMO: Good afternoon,  
15 Mr. Chairman, members of the panel.

16 Pardon me if my voice doesn't come  
17 out clearly. I've got a little bronchitis.

18 Mark Bergamo. Good afternoon.  
19 Referencing the Town of Greenwich letter to the  
20 Siting Council, dated November 23rd, 2015, was  
21 there any response to your letter from the  
22 applicant?

23 THE WITNESS (Deluca): No.

24 MR. BERGAMO: Okay. Now you stated  
25 in your letter that need had not been demonstrated

1 by the applicant. Is there any specific reason  
2 the need has not been demonstrated?

3 THE WITNESS (Deluca): I think it's  
4 more of a question. And the issue is that if --  
5 if we accept the growth projection out to 2023,  
6 they -- there, there's a need stated of 144.2 MVA,  
7 and at present we're told that there's a capacity  
8 of 135 MVA. So that would mean that we're in need  
9 of an additional 9.2 MVA by 2023.

10 And so to make up for this  
11 projected less than 7 percent, more capacity than  
12 what presently exists, they're seeking to build a  
13 new substation that would increase the present  
14 capacity by a hundred percent at the cost of  
15 140 million.

16 So our question is, is that the  
17 right way to go about things? And couldn't some  
18 of that capacity be achieved by, for an example,  
19 again the transformer upgrade at Cos Cob? And I  
20 understand that there's a question about whether  
21 or not the transformers fit. I think there's  
22 still a question.

23 We've, you know, contacted the  
24 manufacturers, and just on a very general level,  
25 asked them whether the transformers could fit.

1 They provided drawings that show just from a  
2 purely spatial standpoint they could fit. So I  
3 think that there's still a question as to whether  
4 or not that the 80-MVA transformers could fit  
5 there, because if they could that clearly would  
6 provide the 160 MVA that would be offsetting the  
7 144 that is projected by 2023.

8 MR. BERGAMO: That was one of the  
9 alternates that you were given from the applicant?

10 THE WITNESS (Deluca): One of the  
11 alternates?

12 MR. BERGAMO: Yeah, was there any  
13 alternates given, rather than install these new  
14 transformers? Was there any alternates given by  
15 the applicant to the Town?

16 THE WITNESS (Deluca): Not that I'm  
17 aware of, other than obviously the application.

18 MR. BERGAMO: Right. Now did you  
19 get any other independent information from any  
20 other source that denotes that there's not a need  
21 for this particular project?

22 THE WITNESS (Deluca): Can you  
23 repeat the question, please?

24 MR. BERGAMO: Did you consult with  
25 anybody independent other than within your

1 internal capacity for consultation as to whether  
2 or not this project was necessary on the Town's  
3 behalf?

4 THE WITNESS (Deluca): We have no  
5 expert on record.

6 MR. BERGAMO: Okay. Now have you  
7 looked at the answer to QLF-20 that was submitted  
8 to the Connecticut Siting Council by CL&P dated  
9 January 14, 2016, which shows the Connecticut  
10 electric annual calendar sales from Eversource?

11 MS. KOHLER: Hold on a second.  
12 It's Eversource's response to 20?

13 MR. BERGAMO: Yes, it is.

14 MS. KOHLER: And I'm sorry. The  
15 date is January 14th?

16 MR. BERGAMO: January 14, QLF-20.  
17 Do you see what I'm referring to?

18 THE WITNESS (Deluca): Not yet.  
19 I'm sorry.

20 MS. KOHLER: Hold on one second.  
21 Okay.

22 MR. BERGAMO: As you have the chart  
23 before you, is that consistent with your prior  
24 testimony that there is practically no growth in  
25 the town of Greenwich?

1 THE WITNESS (Deluca): I would say  
2 yes, in that the year 2010 the residential  
3 Connecticut electrical annual calendar sales for  
4 Eversource was at 10,196,000, approximately. And  
5 in 2015 it was at 10,094,000. So there seems to  
6 be a decrease on the residential side and  
7 similarly on a commercial side, and also  
8 industrial.

9 MR. BERGAMO: And up to 2015 has  
10 that increased or gone down?

11 THE WITNESS (Deluca): There's been  
12 a decrease from 2010 to 2015.

13 MR. BERGAMO: Is this consistent  
14 with your prior testimony that there has been no  
15 growth in the town of Greenwich?

16 THE WITNESS (Deluca): Yeah, I  
17 think that's consistent with our comments that  
18 there has been change and that we've had building  
19 permits and there's been energy conservation. And  
20 so I think that that is consistent, yes.

21 MR. BERGAMO: So it's slowly going  
22 down rather than increasing?

23 THE WITNESS (Deluca): Right.

24 MR. BERGAMO: Has your commercial  
25 or industrial basis increased at all? Are there

1 any new businesses that have been coming in?

2 THE WITNESS (Deluca): Well, yes.  
3 We -- we always have turnover and there has been  
4 approvals for change within the Town.

5 MR. BERGAMO: And what type of  
6 changeover is that? Is that highly industrial?

7 THE WITNESS (Deluca): No, I would  
8 say it's along the order of additions to  
9 commercial areas and -- and change of uses of  
10 commercial areas. That's generally what we would  
11 review in planning and zoning.

12 MR. BERGAMO: And could you explain  
13 what type of changes in uses? Do they affect the  
14 system, electrical system at all? Are there  
15 increases as far as your observation of electrical  
16 usage?

17 THE WITNESS (Deluca): Well, we  
18 have had some, some buildings that have been LEED  
19 certified, but you know, beyond that I couldn't --  
20 I couldn't speak to the exact energy consumption  
21 of those premises.

22 MR. BERGAMO: Would you like the  
23 chart to speak for itself?

24 THE WITNESS (Deluca): Yes, thank  
25 you.

1                   MR. BERGAMO: Now with regards to  
2 alternates, have any alternates been discussed  
3 with the Town, between the Town and the applicant  
4 as far as the proposed substation?

5                   THE WITNESS (Deluca): No, I mean,  
6 not since the application process started. We  
7 inquired of the applicant prior to that, but  
8 nothing since the application has been filed.

9                   MR. BERGAMO: Any information  
10 that's been given would have been given through  
11 this hearing process?

12                   THE WITNESS (Deluca): Right. I  
13 mean, we -- there was, you know, discussions of  
14 routes but not one -- and we asked, inquired of  
15 Eversource, you know, about the Metro-North line,  
16 for an example.

17                   I mean, as you saw filed in similar  
18 responses here there were questions about what it  
19 might look like that was -- the photo simulations  
20 that have been discussed with the first  
21 selectman's office and Eversource.

22                   MR. BERGAMO: Okay. So there's no  
23 additional information that you received?

24                   THE WITNESS (Deluca): Correct.

25                   MR. BERGAMO: Okay. Now with

1 regards with the lines going through Bruce Park,  
2 is the Town in favor of this, this line going  
3 through Bruce Park, the proposed?

4 THE CHAIRMAN: I think we've heard  
5 for umpteen times the answer to that, so I don't  
6 think it's necessary to repeat.

7 MR. BERGAMO: Oh, that's right.  
8 You just reminded me, Mr. Chairman.

9 THE CHAIRMAN: If you didn't hear  
10 anything else at this hearing, I think that's it.

11 MR. BERGAMO: Thank you.

12 Okay. Now to the best of your  
13 knowledge, are there any improvements that the  
14 city is going to work with the applicant for the  
15 distribution system through Greenwich?

16 THE WITNESS (Deluca): Can you  
17 repeat the question, please?

18 MR. BERGAMO: In other words, are  
19 there any plans that are forthcoming that the  
20 applicant has with the Town to upgrade the  
21 distribution system, to the overheads?

22 THE WITNESS (Siebert): Not that  
23 I'm aware of.

24 THE WITNESS (Deluca): I would say  
25 that we try to work collaboratively with



1 Eversource and that's an ongoing discussion. But  
2 is there something on the table right at this  
3 moment? Not that we're aware of.

4 MR. BERGAMO: Okay. Would a new  
5 substation on the Railroad Avenue property or  
6 anywhere else for that matter improve, in your  
7 opinion, the restoration of electricity in a storm  
8 event or an emergency event that might bring down  
9 power lines?

10 THE WITNESS (Deluca): Well, I  
11 don't see how because if the -- unless there was a  
12 storm event that, I mean --

13 THE WITNESS (Siebert): I think we  
14 asked the question. We've been trying to  
15 understand the answer to that question ourselves  
16 to an extent.

17 THE CHAIRMAN: You're not required.  
18 I mean, if you don't know you can also say that.

19 THE WITNESS (Deluca): Well I mean,  
20 it's sort of a loaded question because it's, you  
21 know, it's difficult to answer, frankly. I mean,  
22 is the new substation going to dramatically  
23 increase the reliability of the distribution  
24 lines? I mean there, there's issues with  
25 switching and there's so many moving parts to

1 that.

2                   It's, you know, I don't think that  
3 it's been proposed to deal with the reliability  
4 issues of the distribution system per se. I think  
5 it's a capacity issue from what I understand from  
6 their application.

7                   MR. BERGAMO: Okay. What type  
8 of -- I don't think we've heard from the Town as  
9 far as the city's own efforts to improve the  
10 electrical systems. Is there any plan in place  
11 currently to improve the electrical systems, for  
12 example, the poles, the replacement poles,  
13 overhead wires and things of that nature? I  
14 believe it was mentioned earlier.

15                   THE WITNESS (Siebert): That  
16 infrastructure belongs to the utility, so the  
17 utility company is responsible for maintaining its  
18 electrical infrastructure.

19                   MR. BERGAMO: Okay. And is it true  
20 that you're maintaining that really the new plant  
21 is just going to be superfluous as far as the  
22 amount of electrical supply?

23                   THE WITNESS (Deluca): Well, just  
24 based on the simple math if you agree with their  
25 forecast that 9.2 MVA is needed in 2023 and

1 they're proposing 134 MVA, based on that simple  
2 math it appears so.

3 MR. BERGAMO: So would it exceed  
4 the design?

5 THE WITNESS (Deluca): Right, or  
6 the need, the stated need.

7 MR. BERGAMO: Okay. I see.

8 Now during this past summer were  
9 there any electrical outages experienced by the  
10 city that the Town was aware of?

11 THE WITNESS (Deluca): We don't  
12 have that information handy at the moment.

13 MR. BERGAMO: Now the applicant has  
14 provided that 2013 experienced some problems with  
15 regards to, I believe it was the five-day output,  
16 the heat. Was there anything similar to that  
17 experienced in 2014 or 2015 to the Town's  
18 knowledge?

19 THE WITNESS (Deluca): I don't know  
20 the answer to that question at this time.

21 MR. BERGAMO: That's fine. Now  
22 with regards to the population of Greenwich, has  
23 it grown or has it decreased? Do you have any  
24 knowledge as far as what has been the current  
25 growth or decrease, and what if anything is it?

1 THE CHAIRMAN: The record has been  
2 provided on that, sir.

3 THE WITNESS (Deluca): Yeah, we  
4 provided the SERC report on that.

5 MR. BERGAMO: Is it the Town's  
6 expectation that growth will increase or decrease?

7 THE WITNESS (Deluca): We imagine  
8 that it will stay effectively the same. The SERC  
9 report has indicated there will be a decrease.

10 MR. BERGAMO: And with regards to  
11 energy-saving programs, to what extent is the Town  
12 of Greenwich participating?

13 THE WITNESS (Savageau): The Town  
14 of Greenwich is participating in the clean energy  
15 community program. Part of that is working and  
16 doing our benchmarking and also outreach to the  
17 community.

18 We participate -- we're a CPACE  
19 committee, which means we offer the opportunity  
20 for commercial entities to get into the CPACE  
21 program. We've participated in the solarize  
22 program, so that's primarily where we are. We  
23 also purchase, as part of the clean energy  
24 community program, we purchase RECs with our  
25 renewable energy credits as part of that

1 alternative energy.

2           The other piece of that is we are  
3 looking at installing, wherever we can,  
4 alternative energy. So for example, we put on a  
5 90-kilowatt photovoltaic system on the Glenville  
6 School. We've also used some photovoltaic in a  
7 couple of our other smaller buildings, and we use  
8 them there where we can.

9           As we put in some new -- another  
10 new school we put in some other alternative  
11 energies, some heat pumps in terms of for thermal,  
12 geothermal type heating. So we've been looking at  
13 wherever we can.

14           THE WITNESS (Siebert): And we've  
15 got lighting upgrades and rightsized equipment at  
16 our wastewater treatment plant. So every time we  
17 do it, when we start our own town projects we're  
18 certainly also looking at energy conservation.  
19 And we've taken advantage of some of the rebate  
20 programs and so on to fund that.

21           MR. BERGAMO: So is the Town  
22 reducing their dependency or their usage?

23           THE WITNESS (Savageau): We're  
24 working towards that goal. Yeah, we've got the  
25 benchmarking. We are just solidifying our

1 benchmarking so that we can actually document, you  
2 know, that exact use. But we've been working on  
3 all aspects, the street lighting, our fleet. We  
4 now have a fleet of hybrids, so we've been  
5 participating in that program. So we're working  
6 towards that goal.

7 MR. BERGAMO: Okay. And on a  
8 private side, I'm hearing what the Town has been  
9 doing as far as a municipality. What is the town  
10 doing as far as working with the public at large?

11 THE WITNESS (Savageau): Well,  
12 that's what I'm saying. The two -- the two big  
13 programs, what was solarize, and we slowly  
14 participated in the solarize program. And that  
15 was really obviously, not to just get more solar  
16 installed, but to bring, you know, get people more  
17 familiar in looking at that.

18 And actually, the solar  
19 installations, prior to holding the solarize  
20 program and post holding the solarize program, has  
21 increased. So where, you know, we work with folks  
22 we now have an application process I think that is  
23 fairly easy. Our building department, because of  
24 the solarize program, understands solar a little  
25 bit more and we're able to get through that, that

1 building process, which is part of it. So working  
2 on that.

3 And then, again the CPACE program  
4 is looking at commercial. We also, I think,  
5 encourage LEED buildings. And you know, so  
6 anything we're working, we're working with new  
7 development coming in. We encouraging, you know,  
8 folks to look at LEED certification and whatever  
9 with buildings.

10 MR. BERGAMO: Getting back, getting  
11 to your report that's the November 23, 2015, on  
12 page 5, is it not true that when you did that  
13 report you didn't find any major difference in the  
14 temperatures between the years 2013 and 2014?

15 MS. KOHLER: Can you give us a page  
16 number that you're referring to?

17 MR. BERGAMO: It was page 5.

18 THE WITNESS (Deluca): Well, right.  
19 The 2015 seemed to be dramatically warmer than the  
20 other users, but there we didn't seem to see a  
21 major difference in temperature between 2013 and  
22 2014.

23 MR. BERGAMO: And yet the usage was  
24 down in 2015?

25 THE WITNESS (Deluca): And in 2014.

1 MR. BERGAMO: In 2014, okay.

2 Okay. On page 9 of your report,  
3 number 6, you discuss the routing of the 8  
4 feeders, but the capacity of the individual  
5 circuits and loads that have been carried in the  
6 past have not been made available. Was that  
7 information given -- later provided to you?

8 THE WITNESS (Deluca): I think it  
9 was one of the OCC requests.

10 MR. BERGAMO: Okay. And on page 10  
11 of the report it brings up the same issue. As the  
12 consumer counselor, namely, can you size up the  
13 three transforming units, or add a fourth?

14 THE WITNESS (Deluca): Well, I  
15 don't think we suggested adding a fourth. I mean,  
16 that kind of speaks to that reliability question  
17 that you were asking because -- and I think  
18 Mr. Hannon had addressed it at one of the meetings  
19 specifically.

20 Because from what I understood it's  
21 not -- it's not a reliability issue as it relates  
22 to the transmission line but more as it relates to  
23 the transformer, because the transmission line  
24 obviously could go between Stamford and Cos Cob  
25 and then it's out. And so it's -- it really



1 becomes a question about the transformer, if I  
2 understood that correctly.

3 And in which case, if that's where  
4 this line of questioning was going, is if that's  
5 the case then can't you -- can't you upgrade the  
6 transformers at Cos Cob, or potentially at  
7 Prospect?

8 MR. BERGAMO: Number 8 on page 11  
9 of the report. Now you went into the analysis of  
10 potential under capacity problems. You request a  
11 listing of capacity of all the feeders, V-feeders  
12 less capacity and loads fed.

13 Now there was some documentation  
14 that's been provided by Eversource. Did that meet  
15 your informational needs?

16 THE WITNESS (Deluca): I apologize.  
17 What page was this?

18 MR. BERGAMO: That's number 8 on  
19 page 11.

20 THE WITNESS (Deluca): Oh, okay.  
21 And can you repeat the question? I'm sorry.

22 MR. BERGAMO: Okay. Pertaining to  
23 the analysis of potential under capacity problems  
24 that the Town requested that they get a listing of  
25 the capacity of all the feeders, and V-feeders and

1 list capacity and the load feed be provided. Was  
2 that ever provided to you?

3 THE WITNESS (Deluca): Not to us  
4 specifically, but I think -- I think it is now  
5 part of the record, if I understand correctly.

6 MR. BERGAMO: Okay. Now are you  
7 satisfied with that information? Does that meet  
8 your request needs?

9 THE WITNESS (Deluca): Well, I  
10 think -- I think there's still -- I think there is  
11 still a question, actually.

12 MR. BERGAMO: Why is that?

13 THE WITNESS (Deluca): And I think  
14 that -- why, or when?

15 MR. BERGAMO: Why? Why is that?

16 THE WITNESS (Deluca): Oh. Well, I  
17 think that, again it speaks to some of the -- some  
18 of the alternative options here, is to the  
19 transmission line and what options there are on  
20 the distribution side. So I think I understand  
21 that's not before the Council, but it is in  
22 relation to the transmission line.

23 So I think that has been -- I think  
24 they've answered a lot of the questions in a very  
25 generic way, but obviously they've -- they've not

1 done that full-blown analysis of it, that I've  
2 seen at least as part of the record.

3 MR. BERGAMO: Okay. Now you also  
4 mentioned on the last paragraph of page 11 in the  
5 report about taking additional capacity at the  
6 North Greenwich substation where you feed through  
7 the system. Was that a proposed alternate?

8 THE WITNESS (Deluca): It was a  
9 question that was -- that we were asking. That  
10 the -- there's been the upgrade to Northwest  
11 Greenwich and I think that's been discussed here,  
12 that there is an upgrade to Northwest Greenwich.  
13 And now there's excess capacity there.

14 So knowing that there's excess  
15 capacity, what could be done on the distribution  
16 side to shift that capacity to where the need is  
17 in the lower part of town?

18 MR. BERGAMO: Okay. So you're  
19 disagreeing that, in essence, that this so-called  
20 load increase that's proposed by the applicant of  
21 1 percent a year is not accurate?

22 THE WITNESS (Deluca): I'm putting  
23 it into question. I don't -- I think that's the  
24 way to answer that is, I think there's a question  
25 as to how that relates to what actually is

1 happening on the land-use growth side in  
2 Greenwich.

3 MR. BERGAMO: So in other words,  
4 are you disagreeing? Or -- I don't know where  
5 you're going with that.

6 THE WITNESS (Deluca): I don't --  
7 it's hard for me to reconcile that number. I  
8 don't think it's supported when I look at the land  
9 use growth. But again, I'm not an electrical  
10 engineer, so I don't -- I can't speak to that side  
11 of it at all. All I can say is that -- exactly.  
12 That's why we're asking the question.

13 MR. BERGAMO: And it's also in  
14 taking in consideration what has been provided by  
15 the applicant in QLF-20. It's with regards to the  
16 usages for the Town?

17 THE WITNESS (Deluca): Right. And  
18 to that end I would also note that our plan of  
19 conservation and development and zoning  
20 regulations have not changed in any way that  
21 would -- that I could see any major growth taking  
22 place that would change that, that projection  
23 going forward.

24 MR. BERGAMO: Has there been any  
25 large business that has moved in recently within

1 the last year or so?

2 THE WITNESS (Deluca): No.

3 MR. BERGAMO: Okay. No factories?

4 THE WITNESS (Deluca): No

5 factories, no large office buildings.

6 MR. BERGAMO: I'm almost at the end  
7 of my questions.

8 Is there anything specific in  
9 nature, okay? That you do disagree with the  
10 applicant's application for? I mean, is there  
11 anything specific? I mean, I know you've spoken  
12 in your report on some generalities. Is there  
13 anything more specific that you can speak of?

14 THE WITNESS (Deluca): Well, I'm  
15 still failing to understand why if one does agree  
16 with the forecasting, why one would want to spend  
17 \$140 million on a new transmission line and a new  
18 substation to provide 134 MVAs, but only 9.2  
19 has -- is stated as the need by 2023. I'm failing  
20 to understand that.

21 Also I would like to see Eversource  
22 document why the transformer upgrades at the Cos  
23 Cob substation doesn't work other than just it  
24 doesn't fit. I think there that's been put into  
25 question in my mind, and it's still a question for

1 me.

2                   And I also -- I forget how you  
3 phrased your question, but I think it's -- just to  
4 state it again. I apologize, but I do think that  
5 if the Council feels that there is a need for this  
6 project that I think that there's a viable  
7 alternative down Metro-North, and then Bruce Park  
8 should be off the table.

9                   MR. BERGAMO: Now does the Town  
10 have any plans to upgrade or enlarge any  
11 infrastructure to support any type of growth  
12 whatsoever?

13                   THE WITNESS (Deluca): We do have a  
14 new school plan. It's an existing school, New  
15 Lebanon School and we're proposing to rebuild that  
16 school.

17                   MR. BERGAMO: But there's no major  
18 growth?

19                   THE WITNESS (Deluca): No.

20                   THE WITNESS (Siebert): No, not on  
21 that.

22                   MR. BERGAMO: Okay. You made a  
23 point in your report and would you please clarify  
24 that? It was on the top of page 16, that a major  
25 portion of all the residential customers of

1 Greenwich would receive no further benefit from a  
2 new bulk substation, but to what extent, I mean,  
3 to what extent do you have the basis to say that?

4 THE WITNESS (Deluca): Well, that  
5 that's from the applicant's application where they  
6 describe which portions of the town come out of  
7 Cos Cob and which are on the North Greenwich and  
8 Mianus substations along with the Greenwich  
9 network.

10 So the point was that once built,  
11 if it is built, only 52 percent of all the energy  
12 projected to be delivered to the town would come  
13 from the new substation. So that, that means that  
14 the 48 percent that's still remaining would have  
15 their electricity delivered by the distribution  
16 feeders.

17 MR. BERGAMO: Now the new  
18 substation wouldn't protect the feeders at the Cos  
19 Cob for recurrence of lightning strikes?

20 THE WITNESS (Deluca): I don't see  
21 that the new substation would protect it? No,  
22 from lightning strikes, I don't see how.

23 MR. BERGAMO: And can we agree that  
24 for all the customers fed from the North Greenwich  
25 substation the proposed new substation really will

1 not do anything for them in that area?

2 THE WITNESS (Deluca): The new  
3 substation?

4 MR. BERGAMO: In other words, is  
5 North Greenwich going to benefit from this new  
6 substation, the customers?

7 THE WITNESS (Deluca): Well, they,  
8 I mean, they have indicated on the record that  
9 there are some improvements being made to the  
10 switching. So from that standpoint, yes, but I  
11 mean, there's the switching capabilities is viable  
12 on -- you don't need high power transmission lines  
13 for that. You can have switching capability on  
14 lower voltage lines, too.

15 MR. BERGAMO: Okay. So the  
16 \$140 million, it is your belief it is not going to  
17 improve reliability?

18 THE WITNESS (Deluca): Well, I  
19 again, I think it speaks to the transformer versus  
20 transmission line reliability that I was just  
21 speaking of. So if the line from Stamford to Cos  
22 Cob goes down, the line goes down. I mean, this  
23 project won't address the reliability there.

24 MR. BERGAMO: Okay. So you're not,  
25 the Town of Greenwich is not in favor of the



1 proposed new substation?

2 THE WITNESS (Deluca): I don't  
3 think the need has been demonstrated for it. I  
4 still have a question personally on that.

5 MR. BERGAMO: Okay. How would the  
6 construction of a new substation impact the  
7 downtown area?

8 THE WITNESS (Deluca): In the form  
9 that it is?

10 MR. BERGAMO: That it is proposed?

11 THE WITNESS (Deluca): Well, in  
12 terms of the disruption during construction?

13 MR. BERGAMO: Yes.

14 THE WITNESS (Deluca): Well, that's  
15 obviously a very busy area of town.

16 THE WITNESS (Siebert): It's  
17 certainly going to affect -- It's certainly going  
18 to affect traffic. It would affect traffic  
19 pretty -- I mean, that's a big one down there.

20 MR. BERGAMO: Are there any safety  
21 concerns with regards to, I believe there's a  
22 natural gas facility near that's proposed at the  
23 substation?

24 THE WITNESS (Deluca): Yeah. I  
25 mean, there's major safety concerns and I think

1 we've put those in the record. I mean, for an  
2 example, this is a heavily populated area.  
3 There's residential nearby. There's a -- there's  
4 a low bridge that the fire trucks can't come  
5 under. There's a propane filling station  
6 nextdoor.

7           The substation itself, I know  
8 they're proposing firewalls around the  
9 transformers, but again it's, you know, if a  
10 transformer catches fire, if you just YouTube  
11 transformer fires. I mean, those don't get put  
12 out with a fire extinguisher. I mean, that  
13 that's, you know, and they've testified about that  
14 these stations are not manned, and therefore we  
15 have to wait for someone to come and get into the  
16 station.

17           And they gave this testimony from  
18 when this happened in Cos Cob. The person that  
19 was supposed to be nearby wasn't. It took a long  
20 time for the person to come. I mean, so  
21 there's -- yeah, there's major safety concerns  
22 once the substation is there just based on the  
23 location of it. I mean, this is true of any  
24 substation in town, of course. I mean, this  
25 substation is no different other than that it's

1 where it's located in a residential area and that  
2 it's new. So we're talking about something new.

3 And you know, just back to the  
4 disruption area. I mean, it's just such a heavily  
5 populated area. So it's the traffic issues,  
6 rerouting of all the people that come into the  
7 downtown that shop in the downtown. But you know,  
8 as we've said, if there is to be -- if there is to  
9 be any disruption, obviously we wanted to work,  
10 work with Eversource and with the Council through  
11 the D and M process and make sure it's done in the  
12 best way possible and we're ready and able to  
13 help.

14 But we're, you know, having said  
15 that, there's still a question about need. So  
16 assuming we can get over that and the line is  
17 there we will do everything we can to help with  
18 that, with that disruption. But we see it as a  
19 major, major undertaking and I don't think that's  
20 in dispute here.

21 MR. BERGAMO: Now, what's the  
22 primary road that goes into Greenwich? Is it the  
23 Prospect Railroad?

24 THE WITNESS (Deluca): That's a  
25 major, major area of town, Railroad Avenue.

1           MR. BERGAMO: And that has access  
2 to both city hall and it has access to the various  
3 points?

4           THE WITNESS (Deluca): Yes, it's  
5 within the downtown area. It's where the  
6 Greenwich Train Station is located. It's where  
7 access is to I-95. It's right around the corner  
8 from town hall or the downtown business district.  
9 Greenwich Avenue is -- is in that vicinity.  
10 There's a lot of converging activity.

11          MR. BERGAMO: Okay. Now you  
12 pointed out on page 22 of your report that there  
13 were a number of items that the application was  
14 silent on. Is it your position that you wish no  
15 action be undertaken until further information is  
16 communicated to the Town?

17          THE WITNESS (Deluca): Well I mean,  
18 we're in the Council's process now. I mean,  
19 ideally if there could be an examination of a  
20 transformer upgrade at Cos Cob, if that could be  
21 examined and if that seems fruitful, then perhaps  
22 that could be done as an interim.

23                 And in the meantime we could -- we  
24 could work with Eversource to come up with, you  
25 know, transmission solutions down Metro-North and

1 if it's -- if once the transformers are in and,  
2 you know, which I understand would take about 18  
3 months to 2 years. So once they're in if  
4 there's -- if it's documented that there's still a  
5 need at that time we would have a plan in place.  
6 They would have a plan in place to come back to  
7 the Council and get that approved. I mean, that  
8 would be an ideal situation from our standpoint.

9 MR. BERGAMO: Okay. Thank you.

10 THE CHAIRMAN: Thank you. Next,  
11 Field Point Estate Townhouses.

12 Christine Edwards.

13 MS. EDWARDS: Good afternoon.  
14 Thank you for providing us this opportunity to  
15 make questions. Some of the questions I had  
16 intended to ask have just been asked, but I do  
17 want to go into a few things.

18 You did say that in the process of  
19 looking to become more efficient with the  
20 resources of the Town spending and such, that  
21 you've looked to do some solar photovoltaic energy  
22 cells and in different places, and that you've  
23 looked at it for schools.

24 Is this something that, with the  
25 New Lebanon School creation that, you're going to

1 plan for larger use of alternative energy of some  
2 kind? Has that been a discussion?

3 THE WITNESS (Savageau): I can't  
4 speak for the building committee, but certainly  
5 we'll be looking at energy efficiency as part of  
6 the new building codes and under the Connecticut  
7 clean Green Bank programs.

8 Any school receiving funding from  
9 the State has to be an energy-efficient school and  
10 have what they call -- there's a special term for  
11 it. I can't think. Anyway -- but the school,  
12 schools have to reach a certain threshold or they  
13 wouldn't be in. So we'll be looking at that and  
14 how best to go.

15 THE WITNESS (Spaman): I've said in  
16 some building committee meetings, and they are  
17 shooting for gold standard LEED, you know,  
18 criteria. So --

19 MS. EDWARDS: With the idea that  
20 this will cost the Town less and use less energy  
21 off the grid, if you will?

22 THE WITNESS (Spaman): Yeah.

23 MS. EDWARDS: So that's the  
24 commitment of the Town, is to lower energy costs,  
25 not to increase them, even if there is building

1 going on.

2 In the same way -- and this is  
3 probably directed mostly to Katie -- are you  
4 finding that more and more of the permits that are  
5 coming in for building, just generally older home  
6 rip down, new building going up, are you seeing  
7 greater use of solar, of the geothermal with more  
8 permits in that vein?

9 THE WITNESS (Deluca): Yes, we are  
10 seeing, for an example, actually the 330 Railroad  
11 location which is the Prospect home.

12 The -- Mr. Granoff, who is the  
13 owner now of that building, his proposal through  
14 the planning and zoning commission, there's a lot  
15 of energy conservation on that particular  
16 building. I just mentioned that example because  
17 we're all familiar with that site. So there is  
18 solar there and improvements to the windows and to  
19 the energy efficiency of the building.

20 But yes, I would say that that  
21 is -- that is true. I mean, even on just the town  
22 level the buildings that we've made improvements  
23 to, there are -- solar is a big part of that.  
24 Green roofs are -- also seem to be quite, quite  
25 popular at the moment.

1           We don't require it per se in our  
2 zoning regulations, however people on their own  
3 initiative have been going down that direction.  
4 Greenwich Academy school, for an example thier  
5 rebuild from five or six years ago now included a  
6 major, major green roof. And our own high school  
7 auditorium building has a green roof there, too.

8           MS. EDWARDS: And I believe Country  
9 Day?

10           THE WITNESS (Deluca): Yes, I  
11 think -- I think you're right.

12           MS. EDWARDS: So you're seeing,  
13 even though we have the building that's going on,  
14 you would see -- or you would say, I guess, and  
15 I'm not trying to put words in your mouth, but  
16 would you say that there's a lowering of usage  
17 that's not only being seen at the Cos Cob station,  
18 and being documented there, but that this is an  
19 increasing phenomenon?

20           THE WITNESS (Deluca): Well, I  
21 would just point to the, I think it was OCC-20  
22 that we were just looking at. I obviously don't  
23 have those numbers. That's Eversource's  
24 department, and I think the numbers that they  
25 provided in OCC-20 do show that.



1           I can speak to the -- to the trend  
2 that I see in the plans that come through, that  
3 come through my office. And yes, certainly there,  
4 there's a big -- a big proportion of those  
5 development projects that include some of these  
6 conservation measures as it relates to energy.

7           MS. EDWARDS: So as you've said, if  
8 the transformer can be increased and that can be  
9 really looked at it might completely obviate any  
10 need to have a separate substation built given the  
11 lack of increased usage of the electricity on a  
12 year-by-year basis going forward?

13           THE WITNESS (Deluca): My question  
14 along those lines really had to do with numbers,  
15 and numbers only. So based on this, this 9.2 MVA  
16 projected in 2023, I mean, if you put in the  
17 80-MVA transformers in Cos Cob it seems that that,  
18 you know, that that would cover it. So just based  
19 on pure numbers.

20           MS. EDWARDS: So really what you're  
21 looking at here is in terms of need. You would  
22 say there's a lack of need across the board from  
23 new building construction for residential, for  
24 commercial, et cetera, as people are implementing  
25 new fuel technology, if you will.

1                   It's not increasing need, even  
2 though we're increasing -- we're not having big  
3 buildings going in. We're not like Stamford that  
4 as a big, big hospital to go in and a huge Harbor  
5 Point construction which is drawing more and more  
6 on the grid. We're having basically replacement  
7 housing?

8                   THE WITNESS (Deluca): Yeah. Yes,  
9 I see what you're saying.

10                  MS. EDWARDS: And even though  
11 they're bigger houses, their usage is going down  
12 because of alternate fuel usages that you are  
13 describing. Would you say that would be the case?

14                  THE WITNESS (Deluca): Yes, I  
15 haven't looked at a house by house comparison from  
16 a teardown rebuild, what the energy load is in  
17 that. But isn't OCC-20 -- I think that that chart  
18 speaks for itself.

19                  You know, I can say that if you're  
20 going from a 10,000 square-foot house to a 15,000,  
21 most likely, or even a 5,000 to a 15,000, I mean,  
22 it's still the same four people that live there.  
23 I mean, you're not looking at 16 people that live  
24 there. So the number of people are not  
25 incrementally changing.

1 MS. EDWARDS: So the same with the  
2 water usage. Would it be the same? A lot of the  
3 electricity will be the same people who only use  
4 the rooms they're in, which is more and more of a  
5 trend with smart technology.

6 THE WITNESS (Deluca): Right.

7 MS. EDWARDS: So that really  
8 answers a big block of questions that I have. So  
9 even though we are seeing perhaps some increases  
10 of size of houses, usage has not changed.  
11 Population is not expanding to an extent that  
12 you're having more draw. And in fact the need --

13 THE CHAIRMAN: Is there a question?

14 MS. EDWARDS: Yes, this is the  
15 question. So her comment is -- the final question  
16 is, you don't perceive that there's this great a  
17 need as has been presented in all the meetings  
18 that we've had so far, that from a town point of  
19 view of new construction, of town construction, et  
20 cetera, it's going down, not going up?

21 THE WITNESS (Deluca): I think that  
22 the plan of conservation and development and the  
23 zoning regulations speak to a development  
24 environment that is measured. It is not meant --  
25 it is, again like the POCD states, the plan of

1 conservation and development states it's about  
2 conservation first, and then development.

3           We've not seen any major growth. I  
4 think that there's -- we've stuck to what our plan  
5 of conservation and development has stated. And  
6 the reason why is that we have a zoning schema  
7 that is in keeping with that plan of conservation  
8 and development. We have a very horizontal form  
9 of government, so we have a lot of checks and  
10 balances.

11           We, through the first selectman's  
12 office, have a plan implementation committee that  
13 reviews how we're doing with the plan of  
14 conservation and development on a regular basis  
15 that is, again there's lots of checks and balances  
16 there.

17           Our members of the planning and  
18 zoning commission are on that, the plan  
19 implementation committee, as are members of the  
20 RTM, so that it's multilayered. And it's not  
21 something that can be changed easily. It has to  
22 go back before the RTM, the representative town  
23 meeting which is -- how many do we have on the  
24 RTM?

25           THE WITNESS (Siebert): 236.

1                   THE WITNESS (Deluca): 236 members.  
2     So again, it's a very horizontal form of  
3     government.

4                   MS. EDWARDS: Okay. In addition to  
5     that, you're with planning and zoning. What was  
6     the zoning like when these initial, way back 50  
7     years ago or so, that area that we're speaking  
8     about for a second substation, what was that like  
9     at that time?

10                  THE WITNESS (Deluca): Well, there  
11     was a period of time in the late sixties and  
12     seventies where there was a lot of office  
13     buildings that had -- that had gone up in the Post  
14     Road corridor.

15                  MS. EDWARDS: And prior to that,  
16     along that Railroad Avenue?

17                  THE WITNESS (Deluca): Oh, in the  
18     Railroad Avenue?

19                  MS. EDWARDS: Yeah.

20                  THE WITNESS (Deluca): No, very,  
21     very quiet I would say in that area.

22                  MS. EDWARDS: And now what is the  
23     kind of zoning, if you will, that's moved forward  
24     there?

25                  THE WITNESS (Deluca): Well,

1 we've -- there's been no zone change per se,  
2 however we have seen redevelopment in that area  
3 that is in keeping with those zoning regulations.  
4 And there's, you know, new businesses that are  
5 going into existing spaces and that there's some  
6 redevelopment of property, such as along Old Track  
7 Road, which is in close proximity to that area.

8                   There's a residential building.  
9 The plan of conservation and development talks a  
10 lot about residential and how we are a residential  
11 community. So I only mention that because there's  
12 a lot of people that means that will be -- that  
13 will be traversing that area.

14                   MS. EDWARDS: And that means also  
15 that instead of being a more commercial, it's  
16 going into mixed-use and residential?

17                   THE WITNESS (Deluca): Yes.

18                   MS. EDWARDS: And those  
19 condominiums are, say, a million in value as you  
20 go up?

21                   THE WITNESS (Deluca): Oh, I don't  
22 know there.

23                   MS. EDWARDS: Field Point and such?

24                   THE WITNESS (Deluca): Oh, yes. I  
25 would say yes that the -- I'm not a, you know,

1 don't have the figures in front of me but I would  
2 say that yes, as you progress further.

3 MS. EDWARDS: So it's a change.

4 What about the fact that as one  
5 goes down Old Field Point Road there that you have  
6 a narrowed area and then you go under a bridge?  
7 Have there been trucks that have turned and hit  
8 utility poles due to realizing they can't go under  
9 the bridge? Because I believe that I had read  
10 that, but I wanted to confirm if you had seen that  
11 there had been accidents in that area.

12 THE CHAIRMAN: Excuse me. I'm  
13 getting a little lost about the relevance of these  
14 questions.

15 MS. EDWARDS: It's very important  
16 because if we're putting in the facility that's  
17 almost at the sidewalk level and you have  
18 commercial trucks who can't go underneath a  
19 railroad bridge, right at the corner of Field  
20 Point Road and Railroad Avenue it's a very small  
21 turning circumference.

22 And I believe I have read that  
23 there have been accidents with large major trucks  
24 at that utility pole area. So that has a great  
25 relevance in terms of you as a Siting Council for

1 appropriate placement.

2 THE CHAIRMAN: Can we get a quick  
3 answer?

4 MS. EDWARDS: Yeah, that should be  
5 a quick answer.

6 THE WITNESS (Siebert): Yeah, I  
7 think the answer is that it is an area of very low  
8 clearance. You can't get fire trucks through  
9 there. So there probably has been cases where  
10 somebody has not read the clearance sign. We've  
11 had issues.

12 MS. EDWARDS: Okay. Thank you. I  
13 just had one other question. Oh, yes. In terms  
14 of what you're seeing with planning and zoning at  
15 this time for permits, have you received any  
16 permits for Bloom boxes for either commercial or  
17 residential use? This is an alternate technology  
18 for producing electricity.

19 THE WITNESS (Deluca): The only one  
20 that I'm aware of is the fuel cells at the Hyatt  
21 Regency Hotel. I don't know if that is a Bloom  
22 box, but that's the one that comes to mind.

23 MS. EDWARDS: Yeah, that would be a  
24 fuel cell.

25 THE WITNESS (Deluca): Yeah, that's



1 the one that comes to mind.

2 MS. EDWARDS: And more and more  
3 Silicon Valley is seeing that, so we're starting  
4 to see that in Greenwich as well. And that would  
5 basically be for the Siting Council less usage,  
6 again off the grid and a drop in the percentage of  
7 growth, electrical pull.

8 THE CHAIRMAN: We know all about  
9 it.

10 MS. EDWARDS: Okay. Well, I wasn't  
11 sure. So my apologies.

12 THE CHAIRMAN: Your job is to ask  
13 questions. You're making enough statements. And  
14 you said that was your last question.

15 MS. EDWARDS: I said I think that  
16 was my last question, and I think I'm satisfied  
17 with your answers. And I thank you very much for  
18 the opportunity.

19 THE CHAIRMAN: Mr. Granoff.

20 (No response.)

21 THE CHAIRMAN: The grouped  
22 intervenors, Bella Nonna Restaurant, Chiropractic,  
23 Mr. Berger and Ms. Glass. Is there anybody  
24 representing these people?

25 (No response.)

1 THE CHAIRMAN: Cecilia Morgan.

2 (No response.)

3 MS. KOHLER: Mr. Chairman, we just  
4 have a couple of cleanup questions for the panel.  
5 It won't take but five minutes.

6 THE CHAIRMAN: Just hold on.

7 Okay. We'll now have  
8 cross-examination by the applicant. There are  
9 no -- I don't know what cleanup questions are, or  
10 statements. But there are no statements at this  
11 point.

12 MS. KOHLER: Okay. I also just  
13 wanted to note for the record I think we just  
14 needed to administrative notice something that we  
15 had on the hearing agenda. I don't believe we did  
16 it earlier.

17 THE CHAIRMAN: This is the State of  
18 Connecticut integrated water quality report final,  
19 dated October 1, 2014. Is that what you're  
20 talking about?

21 MS. KOHLER: Yes.

22 THE CHAIRMAN: Is there any  
23 objection to administratively noticing that.

24 (No response.)

25 THE CHAIRMAN: No objections, so it

1 is noticed. So yes, it's your turn to go sit in  
2 the audience, and it's Eversource's turn to be on  
3 the panel.

4 MR. BALL: Mr. Chairman, I'm sorry.  
5 Will we have the oppurtunity? There were just one  
6 or two questions we wanted to clean up with the  
7 panel. If you'd allow us?

8 THE CHAIRMAN: This is going to be  
9 short?

10 MS. KOHLER: It's literally one or  
11 two questions.

12 THE CHAIRMAN: Some of your people  
13 which are various -- and you have a very good team  
14 there and I give them a lot of credit, but  
15 occasionally their answers tend to be long. So if  
16 the questions and the answers can be short I'll  
17 allow it. Go ahead.

18 MS. KOHLER: Okay. Thank you,  
19 Mr. Chairman. I appreciate your grace.

20 Mr. Spaman, Attorney Dubuque asked  
21 the witness panel about tree trimming to protect  
22 the distribution systems in storm and non-storm  
23 events. Can you describe what affirmative action  
24 Greenwich has taken regarding tree trimming to  
25 protect the existing distribution system?

1           THE WITNESS (Spaman): Yeah, we  
2 have a policy that, you know, we feel that all  
3 Greenwich residents deserve safe and reliable  
4 electricity into their homes. And to that end we  
5 do have a policy on the tree trimming and we don't  
6 deny them any access to the trimming activities.  
7 We give them the clearances they want with the  
8 exception of ground to sky trimming of trees,  
9 which means, you know, cutting all the branches  
10 off on one side of a tree.

11           We feel it's, you know, well, we  
12 give them, you know, the use of the electrical  
13 power and be able to get reliable power. We don't  
14 do that at the expense of good arboriculture, so  
15 that we do expect tree work. And any tree that's  
16 removed is to be posted. And posted trees, people  
17 can object and then, you know, there will be a  
18 public hearing on those, on those particular  
19 trees.

20           So we've got a pretty good program  
21 and I feel we do work well with, you know, with  
22 the utility company. And we'll give permits for  
23 certain circuits -- for every circuit that they do  
24 and we just try to keep it up, and then we  
25 supervise the work.

1 THE CHAIRMAN: Thank you.

2 Mr. Hannon has a follow-up  
3 question.

4 MR. HANNON: When you said, give  
5 them the clearance they want, who is them?

6 THE WITNESS (Spaman): The  
7 electrical utilities, Eversource.

8 MR. HANNON: I wasn't sure if you  
9 were talking about the power company or the  
10 residents. Thank you.

11 MS. KOHLER: Do have a specific  
12 program, though, that's a multimillion-dollar  
13 program that's geared toward tree trimming?

14 THE WITNESS (Spaman): Yeah, we  
15 instituted a capital project that we did over  
16 three years from 2011 to 2013. That was  
17 \$1.4 million to go through town and find any trees  
18 that were defective, hazardous to the public and,  
19 not just to the utility lines, but also to the  
20 traveling public itself. And we feel that we've  
21 had some very good results from hitting those  
22 trees and doing that program.

23 THE CHAIRMAN: Thank you.

24 MR. BALL: Thank you. If I may?  
25 Ms. DeLuca, there was a question from Attorney

1 Dubuque about the Town's position. If the Siting  
2 Council finds there's a need for the project and  
3 it's sited along the Metro-North Railroad  
4 corridor, it's going to go up and down underground  
5 briefly at certain points. And there was a  
6 question about the Town's position as to extended  
7 undergrounding, and if I could just clarify that?

8 In LFE-3 you see that segment 4 has  
9 an alternative 4B where it would go underground.  
10 Do you see that in LFE-3, Ms. DeLuca?

11 THE WITNESS (Deluca): Yes.

12 MR. BALL: Okay. And in the most  
13 recently filed exhibits by Eversource, which was  
14 Late-Filed 25, there were a number of photographs.  
15 And one of the photographs is page 3 of 17 which  
16 shows a particular intersection. Can you describe  
17 what is this intersection?

18 THE WITNESS (Deluca): That is the  
19 intersection where Greenwich Avenue is coming  
20 down, traveling south. Bruce Park Avenue is the  
21 road over there. Railroad Avenue is the road to  
22 the right, and the Steamboat Road would be the one  
23 traveling south.

24 MR. BALL: Okay. In terms of the  
25 Town's position, first of all, is this the point

1 where it would go from overhead to underground to  
2 your understanding?

3 THE WITNESS (Deluca): Yes.

4 MR. BALL: Okay. And what is the  
5 Town's position in terms of extending the  
6 underground? Can you describe?

7 THE WITNESS (Deluca): Yes, we were  
8 hoping that the underground could extend from the  
9 substation. It would go east along Railroad  
10 Avenue and it would connect to this pole that is  
11 shown on page 3 of 17.

12 And we were hoping that instead of  
13 that pole there the undergrounding could be  
14 extended to the other pole, which is described  
15 here as STR2-103, so that the reason being that it  
16 wouldn't be in that prominent intersection.

17 MR. BALL: Okay. And when you  
18 said, prominent intersection, this is one of the  
19 most heavily traveled intersections in Greenwich,  
20 I take it?

21 THE WITNESS (Deluca): Yes, this is  
22 the bottom of the main business district in town.

23 MR. BALL: Okay. And the pole  
24 where it would go from overhead to underground is  
25 119 feet high?

1 THE WITNESS (Deluca): Yes.

2 MR. BALL: How far are you asking  
3 for, for the extension of the underground?

4 THE WITNESS (Deluca): I believe  
5 it's 300 feet, or less.

6 MR. BALL: Right. And even if it  
7 was moved a hundred feet would that help?

8 THE WITNESS (Deluca): That would  
9 be fine, too. Yes, just so it's offset from that  
10 intersection. I think it's 300 feet to the other  
11 pole approximately, but if, you know, even if it  
12 was just offset a little bit, you know, 150 feet  
13 just so it's out of that main intersection there,  
14 that would be desirable.

15 MR. BALL: Thank you. I have  
16 nothing further.

17 THE CHAIRMAN: Okay. We'll take  
18 about a three minute break while we rearrange.

19 (Whereupon a recess was taken from  
20 3:19 p.m. to 3:25 p.m.)

21 THE CHAIRMAN: We're going to start  
22 with the cross-examination by the Office of  
23 Consumer Counsel. Just a word, this is additional  
24 information, and that means it's the last, your  
25 last opportunity. So I don't want to rehash old



1 news. There's plenty of that.

2 Okay. So that was my preamble.

3 Now I understand you have two new exhibits, or  
4 something like that.

5 MS. DUBUQUE: Yes. Thank you,  
6 Mr. Chairman. We will just do this quickly. Our  
7 panel has previously been sworn in. We have Ken  
8 Bowes, Ray Gagnon, Jacqui Gardell, Mike Libertine.

9 K E N N E T H B. B O W E S

10 R A Y M O N D G A G N O N

11 J A C Q U E L I N E A. G A R D E L L

12 M I C H A E L L I B E R T I N E,

13 recalled as witnesses, having been previously  
14 sworn, were examined and testified on their  
15 oaths as follows:

16 MS. DUBUQUE: We have two new  
17 exhibits since the last hearing. Exhibit 43,  
18 Eversource Energy responses to OCC interrogatory  
19 set 6, dated February 16, 2016; and Exhibit 44,  
20 Eversource Energy Late-Filed Exhibits 15 to 25,  
21 also dated February 16, 2016.

22 And I'd like to ask Mr. Bowes and  
23 Mr. Gagnon and Ms. Gardell, did you prepare or  
24 oversee the preparation of these exhibits?

25 THE WITNESS (Bowes): Yes, I did.

1 THE WITNESS (Gagnon): Yes, I did.

2 THE WITNESS (Gardell): Yes, I did.

3 MS. DUBUQUE: And do you have any  
4 clarifications, corrections or additions?

5 THE WITNESS (Bowes): I do not.

6 THE WITNESS (Gagnon): I do not.

7 THE WITNESS (Gardell): I do not.

8 MS. DUBUQUE: To the best of your  
9 knowledge, is the information in these exhibits  
10 true and accurate?

11 THE WITNESS (Bowes): Yes, it is.

12 THE WITNESS (Gagnon): Yes, it is.

13 THE WITNESS (Gardell): Yes, it is.

14 MS. DUBUQUE: And do you adopt  
15 these documents as exhibits?

16 THE WITNESS (Bowes): Yes, I do.

17 THE WITNESS (Gagnon): Yes.

18 THE WITNESS (Gardell): Yes.

19 MS. DUBUQUE: And also quickly, as  
20 to the heights on the photo simulations in Exhibit  
21 44, Late-Filed 25, I'd like to ask Mr. Libertine  
22 if he -- did you prepare the photo simulations  
23 with the structure heights added, or oversee their  
24 preparation?

25 THE WITNESS (Libertine): Yes, I

1 did.

2 MS. DUBUQUE: And are they true and  
3 accurate?

4 THE WITNESS (Libertine): Yes.

5 MS. DUBUQUE: Do you have any  
6 corrections, clarifications or additions?

7 THE WITNESS (Libertine): No.

8 MS. DUBUQUE: Thank you, Mr.  
9 Chairman. I respectfully request that the Council  
10 admit into evidence Exhibits 43 and 44 as full  
11 exhibits. And if I could continue, I also have  
12 two administrative notice items.

13 THE CHAIRMAN: Okay.

14 MS. DUBUQUE: And the first is that  
15 on December 1st the Council granted Eversource's  
16 request to take administrative notice of the draft  
17 2014/2015 forecast of loads and resources report.  
18 The report is now final, so we would like  
19 administrative notice of the final report.

20 And also the town panel witnesses  
21 mentioned the Long Island Sound cable leak issue.  
22 And we would like administrative notice of  
23 Document 224 of the Siting Council, and that is  
24 the Long Island replacement cable proceeding.

25 Thank you, Mr. Chairman.

1           THE CHAIRMAN: Any objections to  
2 the admission of these reports and documents?

3           MR. ROSENTHAL: Not from OCC.

4           THE CHAIRMAN: Anybody else? No?

5           (No response.)

6           THE CHAIRMAN: Hearing and seeing  
7 none, these exhibits are admitted. And we'll  
8 continue with the cross-examination by OCC.

9           MR. ROSENTHAL: Thank you,  
10 Mr. Chairman.

11                   I'd like to start with OCC-79,  
12 please. And in the OCC-79 response Eversource  
13 offered the sales totals excluding Metro-North in  
14 a confidential attachment. And our question is  
15 whether Eversource might be willing to provide the  
16 list of towns in order of usage without the actual  
17 usage figures in the manner that is in OCC-64?

18           THE WITNESS (Bowes): I could  
19 answer it in a general term. The reason it's  
20 confidential is it's, you know, specific to a  
21 single customer, so we don't release customer  
22 specific information without their consent.

23                   In this case it would change the  
24 order of those towns there were previously, and  
25 Greenwich would become number four and Waterbury

1 would become number three.

2 Is that sufficient?

3 MR. ROSENTHAL: Yes, that is  
4 sufficient. Thank you.

5 MS. BAIN: Margaret Bain for the  
6 Office of Consumer Counsel. Good afternoon,  
7 everyone. I'd like to start with Late-File 12.

8 THE WITNESS (Bowes): Yes, I have  
9 it.

10 MS. BAIN: Okay. Here the response  
11 tells us that the load demand for North Greenwich  
12 is not solely due to usage by North Greenwich  
13 customers. Is that correct? In other words,  
14 there was switching.

15 THE WITNESS (Bowes): There was a  
16 brief period of time, yes, where a load was  
17 transferred to North Greenwich problematically as  
18 part of an electrical outage.

19 MS. BAIN: And it says that  
20 actually, the 33 percent increase in demand at the  
21 North Greenwich substation between 2010 and 2015  
22 was a result of switching operations which were  
23 implemented in response to a fault that occurred  
24 on a circuit not normally fed by North Greenwich  
25 substation. Is that correct?

1 THE WITNESS (Bowes): Yes, it is.

2 MS. BAIN: So what was the load  
3 that was switched to North Greenwich?

4 THE WITNESS (Bowes): It was load  
5 normally fed from the Prospect Street substation.

6 MS. BAIN: Was it from a few  
7 customers, or was it just a certain transformer?  
8 Or what was it?

9 THE WITNESS (Bowes): It would be a  
10 block of customers. I don't have the specifics,  
11 but in general it's about 500 customers per a load  
12 block, and probably up to maybe 2 to 3 MVA.

13 MS. BAIN: So what we've discussed  
14 so far about North Greenwich, people have  
15 mentioned the tear downs, the older homes being  
16 demolished and newer ones put in their place with  
17 an increase in size and demand.

18 If we look at the transcript from  
19 12/1, page 47, page 48, we're talking about the  
20 larger dwellings causing that load. So actually  
21 this load is only partly due to that. Part of the  
22 reason is the switching. Is that correct?

23 THE WITNESS (Bowes): That is  
24 correct.

25 MS. BAIN: And I think we even

1 talked about that today with the larger homes  
2 being responsible for that increased demand,  
3 however part of that apparently is due to the  
4 switching.

5 Now let's see. Now regarding the  
6 ISO forecast, the use of ISO forecast is to verify  
7 the Greenwich forecast. Right? To help you come  
8 up with your Greenwich forecast. I believe you  
9 put an excerpt from the 2013 CELT report?

10 THE WITNESS (Bowes): I believe we  
11 did, subject to check, yes.

12 MS. BAIN: Yeah, OCC-38, page 3.

13 THE WITNESS (Bowes): Yes, we have  
14 it.

15 MS. BAIN: Okay. Now that CELT  
16 report comes out every year. Correct?

17 THE WITNESS (Bowes): Yes, it does.

18 MS. BAIN: Okay. So I have here a  
19 copy of the 2015, an excerpt from the 2015 CELT  
20 report. We'd like to show that to you.

21 MR. ROSENTHAL: Yes, we'd like to  
22 provide also to the Council and to the parties a  
23 copy of 2015 CELT data, and 2013 CELT data. It is  
24 highlighted in certain spots to assist with our  
25 cross-examination.

1                   May I bring you a few copies,  
2 Attorney Bachman?

3                   MS. BACHMAN: Sure.

4                   Excuse me, Attorney Rosenthal?

5                   MR. ROSENTHAL: Yes.

6                   MS. BACHMAN: Did you want to  
7 request administrative notice of the 2013 CELT  
8 report. We only have the 2015?

9                   MR. ROSENTHAL: You have the '13.  
10 Right?

11                   MS. BAIN: Yeah, we have the '13  
12 excerpt.

13                   MR. ROSENTHAL: The '13 I think is  
14 in the record. The '15 is not, so yes, I think we  
15 would need to respectfully request that  
16 administrative notice be taken of the 2015 CELT  
17 data.

18                   MS. BAIN: And the 2013 that's in  
19 the record in OCC-30, is excerpted off the page  
20 that we have here from the actual report. It's  
21 the same numbers that we're highlighting, but we  
22 just wanted to compare the two pages.

23                   MS. BACHMAN: We have the 2015 CELT  
24 report on our administrative notices, so they're  
25 both on hand.



1 MR. ROSENTHAL: Okay. All right.  
2 And these obviously have some highlighting, but  
3 it's to assist with our cross, as mentioned.

4 MS. BAIN: If we look at these two  
5 reports in 2013, the forecast for 2015 under  
6 summer 50/50 peak net PDR and summer 90/10 peak  
7 net PDR is 2368 for the 50/50, 2593 for the 90/10.

8 Now in the 2015 report it's 50/50  
9 for the gross -- they have a gross PV PDR in 2015  
10 and a gross PVR PDT for 90/10. Okay? So the  
11 50/50 in 2015 is 2269, so a decline from the 2368  
12 in the 2013 report. And the 90/10 is 2489, again  
13 a decline from the 2593 in the 2013.

14 MS. DUBUQUE: May I ask if there's  
15 a question?

16 MS. BAIN: Do you see that? Is  
17 that correct?

18 THE WITNESS (Bowes): Yes, it is.

19 MS. BAIN: Now in 2022 do the two  
20 reports also have -- show declines for 2015 from  
21 the 2013?

22 THE CHAIRMAN: Are you going to ask  
23 a question at some point?

24 MR. ROSENTHAL: That's a question.

25 MS. BAIN: Yeah, do the two reports

1 show a decline between 2013 and 2015?

2 THE WITNESS (Bowes): Yes, they do.

3 MS. BAIN: And I think the company  
4 has said that the compounded annual growth rate, I  
5 think -- did you say you had it as 1.2, but you  
6 chose to use 1 in yours, a 1 percent increase for  
7 the compounded annual growth rate?

8 THE WITNESS (Bowes): Yeah, the two  
9 weren't necessarily correlated or related, but we  
10 did look to the ISO forecast as part of the  
11 analysis we did.

12 Under OCC-30 there's a -- there's a  
13 data table that lists each one of the substations  
14 in Southwest Connecticut and we averaged those to  
15 come up with the 1 percent for the distribution  
16 and planning forecast, and then compared that with  
17 the ISO forecast of 1.2 percent, the ISO forecast  
18 being weather normalized where the Eversource  
19 distribution one was not.

20 MS. BAIN: And has the compounded  
21 annual changed in 2015 from 2013?

22 THE WITNESS (Bowes): For the ISO  
23 New England forecast? Yes, it has.

24 MS. BAIN: It's gone down to  
25 .8 percent?

1 THE WITNESS (Bowes): Yes, it has.

2 MS. BAIN: Okay. That was all for  
3 Southwestern Connecticut. And in Norwalk the  
4 compounded annual growth report has gone down. Is  
5 that right?

6 THE WITNESS (Bowes): I'm sorry.  
7 What was that again?

8 MS. BAIN: For Norwalk.

9 THE WITNESS (Bowes): For the  
10 Norwalk area?

11 MS. BAIN: The compounded annual  
12 growth rate?

13 THE WITNESS (Bowes): Yes, it has.

14 MS. BAIN: So that's gone down to  
15 what? To .1 percent. Right?

16 THE WITNESS (Bowes): Yes, it has.

17 MS. BAIN: From in 2013, 1.1?

18 THE WITNESS (Bowes): That is  
19 correct.

20 MS. BAIN: And also Norwalk was a  
21 little bit increased for 2015. Right? Between  
22 2013 and 2015?

23 THE WITNESS (Bowes): Yes, the 2015  
24 forecasts were higher than the 2013.

25 MS. BAIN: Then did it decline in

1 2022 between the two?

2 THE WITNESS (Bowes): Yes, it did.

3 MS. BAIN: Okay. And then as we  
4 noted, the compounded annual growth report went  
5 down.

6 So I know in the transcript I  
7 believe Eversource had mentioned it might consider  
8 revising its forecast. Have you considered any  
9 revisions to the forecast?

10 MS. DUBUQUE: Mr. Chairman, may we  
11 go off the record for a moment?

12 THE CHAIRMAN: Sure.

13 (Off the record discussion.)

14 MS. DUBUQUE: Mr. Chairman, we're  
15 ready to go back on the record. Thank you.

16 THE CHAIRMAN: Thank you.

17 THE WITNESS (Bowes): So I've been  
18 shown a different document from ISO New England  
19 that was used for a comparison to update our  
20 results.

21 It does not seem to be in the  
22 record at this point, but it's the -- it's the  
23 2015 gross net of the PV forecast which shows  
24 Southwest Connecticut still at 1.2 percent  
25 adjusted annual growth, and the Norwalk area at

1 0.5 percent annual growth. So it's a different  
2 table within -- it's actually page 14 with that  
3 data table where you're showing us, you know, one  
4 of the different pages.

5 MS. BAIN: Actually if we look at  
6 the one for 2015 that we have here, the first  
7 column says the CELT gross.

8 THE WITNESS (Bowes): And that's  
9 1.2 percent. So it does agree with ours, yes.

10 MS. BAIN: And then there's the  
11 gross minus PV, which is probably -- that's 1.2 it  
12 looks like. Is that right?

13 THE WITNESS (Bowes): Correct. So  
14 we're using the 1.2 percent, not the 0.8 percent.

15 MS. BAIN: So this is PV and PDR,  
16 the passive demand response?

17 THE WITNESS (Bowes): Correct.

18 MS. BAIN: That's what we're  
19 looking at here to get the .8?

20 THE WITNESS (Bowes): Yes, so we're  
21 looking at the gross.

22 MS. BAIN: So you did not take into  
23 account any energy efficiency things, you're  
24 saying?

25 THE WITNESS (Bowes): Well, they're

1 already in the measured values we use, as we  
2 include all of them. So our measured values from  
3 the substations include all the energy efficiency  
4 and all the solar at the time of peak. So, much  
5 more.

6 MS. BAIN: So you do not take into  
7 account any increase in energy efficiency for  
8 future use?

9 THE WITNESS (Bowes): Correct,  
10 because we use measured data at peak.

11 MS. BAIN: Right. And I know  
12 there's other things that they -- and ISO  
13 apparently has taken into account under PDR. One  
14 of the things was, I believe, the federal  
15 appliance improved standards for that. Are you  
16 familiar with that?

17 THE WITNESS (Bowes): I would say  
18 vaguely familiar, not at a level to properly  
19 answer any questions.

20 MS. BAIN: Okay. So that's not  
21 something that you would have used either to look  
22 at in your forecast?

23 THE WITNESS (Bowes): Because we  
24 used the measured values, because we include all  
25 of the actual energy efficiency in them.

1 MS. BAIN: And so you're talking  
2 about past energy. You're not talking about going  
3 forward?

4 THE WITNESS (Bowes): Well, it's a  
5 history as well, so it's the annual increase with  
6 those factors included. I know you have some  
7 other interrogatories that you have asked about,  
8 you know, the penetration rates, or the  
9 participation rates for energy efficiency, and  
10 although I don't think you asked for solar as  
11 well, in this, specifically in the town of  
12 Greenwich.

13 MS. BAIN: So can you tell us what  
14 you included for energy efficiency going forward?  
15 Can you quantify that for us?

16 THE WITNESS (Bowes): The same rate  
17 we used just in the past. So no increase in it  
18 and no decrease in it. The same annual amount.

19 MS. BAIN: So what was the  
20 percentage that you had?

21 THE WITNESS (Bowes): So it's just  
22 the measured values. So we look at the measured  
23 values each year, so it's included in that. We  
24 don't forecast specifically for energy efficiency  
25 or for solar.

1 MS. BAIN: So you don't forecast  
2 specifically for energy efficiency?

3 THE WITNESS (Bowes): That's why we  
4 use the gross number.

5 MS. BAIN: All right. And is that  
6 because you don't think energy efficiency will  
7 increase, or why would that be?

8 THE WITNESS (Bowes): We think the  
9 rate of future increase will be around the past  
10 participation rates. And again, it's by the  
11 nature of how we do it. It trues up. It trues  
12 itself up each year.

13 MS. BAIN: Looking at the  
14 transcript from 12/1 on pages 60 and 62?

15 THE WITNESS (Bowes): Yes, I have  
16 them.

17 MS. BAIN: Okay. Now we're talking  
18 about basis. And I think that, Mr. Bowes, in  
19 lines 22 through 25 you said there's been no  
20 curtailment of actual uses by customers in  
21 Greenwich. So the baseload or base usage is still  
22 there. Right?

23 THE WITNESS (Bowes): So the  
24 kilowatt hour sales is what I think the reference  
25 was to, yes.



1 MS. BAIN: And then on 62 you  
2 mentioned we've seen a baseload increase over the  
3 years. Right?

4 THE WITNESS (Bowes): Yes.

5 MS. BAIN: I did up a little chart  
6 based on OCC-22 and Late-File 20 with the baseload  
7 for the 27.6 Cos Cob transformer.

8 MR. ROSENTHAL: Okay. So this is a  
9 table compiling data already in the record from  
10 the OCC-22 response, and the Late-File 20  
11 response. And I have copies to share.

12 MS. BAIN: 2009, '10 are blanked  
13 out because apparently there was some problem with  
14 the meters. Is that correct?

15 THE WITNESS (Bowes): There was  
16 ongoing work at those substations, so the metering  
17 was out of service for a period of time.

18 MS. BAIN: So those were low, you  
19 know, oversized low. So we're not including those  
20 in this calculation. Now if we look at the  
21 averages, ten year, five year and three year, do  
22 you see that section?

23 THE WITNESS (Bowes): I do.

24 MS. BAIN: Are those going down?

25 MS. DUBUQUE: Can I just ask a

1 question, Mr. Chairman? Are these averages  
2 already calculated in our responses?

3 MS. BAIN: No, it's based on those  
4 responses.

5 MS. DUBUQUE: You calculated that.  
6 So basically this is new information that you're  
7 giving us now?

8 MS. BAIN: Well, subject to check.  
9 It's right at that total column minus nine and  
10 ten.

11 MS. DUBUQUE: Right. But we  
12 haven't -- we don't have the opportunity right now  
13 to take out our calculators and check all these  
14 figures. I mean, if it had been provided ahead of  
15 time we could have.

16 MR. ROSENTHAL: We'd be asking you  
17 to accept those averages subject to check, then.

18 MS. DUBUQUE: I do object to  
19 numbers being thrown at us at the hearing when the  
20 memorandum for the Council clearly stated that all  
21 filings were to be made by February 16th. And for  
22 this panel to have a fair opportunity to assess  
23 these numbers, I think this information should  
24 have been provided in advance.

25 THE CHAIRMAN: Are there other

1 things where you have compiled, because I have to  
2 tell you we're moving at a certain pace and I'm  
3 looking outside? And I'm also thinking that a few  
4 people have to go a long way in rush-hour.

5 And knowing that we're not going to  
6 finish today, even if we go to seven, I know some  
7 people like to ask questions. I'm thinking  
8 that -- I assume you have a lot more. Am I  
9 correct?

10 MR. ROSENTHAL: One second, please.

11 Are you suggesting another hearing  
12 date potentially, Mr. Chairman?

13 THE CHAIRMAN: With a great deal of  
14 pain, yes, sir. But I'm also trying to figure out  
15 how much longer. I mean, you must have a sense of  
16 your questions.

17 MR. ROSENTHAL: We do, but we also  
18 have at least one other data compilation, so that  
19 issue could be worked out with counsel for  
20 Eversource.

21 MR. ASHTON: I think what he wants  
22 you to do is get those out of the way today so  
23 they can look at them before we come back again.

24 MR. ROSENTHAL: Well, yes. We can  
25 certainly distribute them today, and then they

1 would have the opportunity that they're seeking  
2 to, to confirm the data.

3 THE CHAIRMAN: And it's really  
4 necessary that you can't ask the questions in any  
5 other way? I mean, because you know they're going  
6 to have to check the information.

7 I see a dramatic change between  
8 2014 and 2015. Maybe why -- I mean, just doing  
9 this at this late date really just drags this out,  
10 and I'm not sure what the purpose is.

11 MS. BAIN: Yeah. You know, in my  
12 experience usually the people accept it subject to  
13 check, but this is the first time I've had, you  
14 know, and then if there's a problem with it when  
15 they check it, which is simple, but --

16 THE CHAIRMAN: But of course once  
17 we close the hearing it's a little bit difficult  
18 to get the check checked. You're doing it at the,  
19 you know, eleventh hour. We had intended -- well,  
20 I guess it was just a dream that we close the  
21 hearing today.

22 MS. BAIN: But I mean, whatever,  
23 you know, whatever way you think would be quickest  
24 or whatever would be fine with us.

25 THE CHAIRMAN: I'm afraid I can't

1 even think of how to define quickest in these  
2 proceedings.

3 MS. BAIN: You know the best, most  
4 efficient. Let me put it that way.

5 THE CHAIRMAN: I'm going to ask  
6 Attorney Bachman to opine on the process.

7 MS. BACHMAN: Perhaps how we could  
8 approach this so that it's fair for everyone, is  
9 that these items be submitted ahead of time,  
10 distributed. If you could distribute them today  
11 that would be fantastic.

12 You're also going to have to  
13 distribute them to all the other parties and  
14 intervenors who aren't here. So you're going to  
15 have to do an electronic distribution. That way  
16 everybody will have an opportunity to review the  
17 material, check it and we'll come back one final  
18 afternoon on March 10th and close the hearing.

19 If that's acceptable to everyone in  
20 the room, please let me know.

21 THE CHAIRMAN: We may not have any  
22 Council members here, but we would be glad to have  
23 you guys all about, and particularly looking at  
24 the gentleman there in corner.

25 MR. BERGAMO: Do what you need to

1 do.

2 MS. BACHMAN: Attorneys Kohler and  
3 Ball, that's okay?

4 MR. BALL: Yes.

5 THE CHAIRMAN: We're not permitting  
6 new information. This is just a compilation of  
7 existing information. Is that clear?

8 MR. ROSENTHAL: If we could have  
9 one more minute we might be able to make things  
10 easier. If I may just confer for one moment?

11 THE CHAIRMAN: Sure.

12 MR. ROSENTHAL: So we will, if it's  
13 okay with counsel, some of this we may be able to  
14 do on brief. So we will -- it's a very small  
15 number of items at this point.

16 We will confer with counsel for  
17 Eversource about any additional items that we'd  
18 like to have added to the record before the  
19 March 10th hearing, and we should be able to wrap  
20 up whatever we need to do at the March 10th  
21 hearing quickly as seems desired, if that's okay.

22 MS. DUBUQUE: Yes, that's fine.  
23 Thank you.

24 THE CHAIRMAN: Any of the other  
25 parties intervenors want to opine on this?

1 Hopefully not.

2 (No response.)

3 THE CHAIRMAN: Okay. The Council  
4 announces that we will continue the evidentiary  
5 portion of the hearing at its offices, meeting  
6 here at 10 Franklin Square in New Britain on  
7 Thursday, March 10, 2016. I'm told if we do it at  
8 one we're going to get through it in hearing room  
9 two. It's the other hearing room.

10 MS. BAIN: Mr. Chairman, I have two  
11 more I could do today. Do you want me to do those  
12 now? These are simple ones. No exhibits.

13 THE CHAIRMAN: Just two more  
14 questions and you're done?

15 MS. BAIN: That I can do today and  
16 then, you know, the other ones that have chart  
17 I'll leave.

18 THE CHAIRMAN: You're going to come  
19 back anyway. Right?

20 MS. BAIN: Okay. I'll do these two  
21 then. These are just quick ones. Okay. That's  
22 it.

23 THE CHAIRMAN: Hopefully all of  
24 them will be quick. Dream on, right?

25 MS. BAIN: We'll just do them all

1 March 10th, then. That sounds good.

2 THE CHAIRMAN: Please note that  
3 it's only because -- what is this? This is the  
4 fifth hearing. So I have been noted generally,  
5 with the exception perhaps of my wife, for being a  
6 rather patient man. Five hearings is a lot.

7 Okay. Please note anyone who has  
8 not become a party intervener but who desires to  
9 make his or her views known to the Council may  
10 file written statements with the Council until the  
11 record closes. Copies of the transcript of this  
12 hearing will be filed at the Greenwich Town  
13 Clerk's office.

14 I hereby declare this portion of  
15 the hearing closed. And thank you. And in this  
16 case, really drive home safely.

17 (Whereupon, the witnesses were  
18 excused, and the above proceedings were concluded  
19 at 3:58 p.m.)

20

21

22

23

24

25



## 1 CERTIFICATE

2 I hereby certify that the foregoing 191 pages  
3 are a complete and accurate computer-aided  
4 transcription of my original verbatim notes taken  
5 of the Public Hearing and Council Meeting in Re:  
6 DOCKET NO. 461, APPLICATION FROM EVERSOURCE ENERGY  
7 FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY  
8 AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE,  
9 AND OPERATION OF A 115-KILOVOLT BULK SUBSTATION  
10 LOCATED AT 290 RAILROAD AVENUE, GREENWICH,  
11 CONNECTICUT AND TWO 115-KILOVOLT UNDERGROUND  
12 TRANSMISSION CIRCUITS EXTENDING APPROXIMATELY 2.3  
13 MILES BETWEEN THE PROPOSED SUBSTATION AND THE  
14 EXISTING COS COB SUBSTATION, GREENWICH,  
15 CONNECTICUT, AND RELATED SUBSTATION IMPROVEMENTS,  
16 which was held before ROBIN STEIN, Chairman, at  
17 the Connecticut Siting Council, 10 Franklin  
18 Square, New Britain, Connecticut, on February 23,  
19 2016.  
20  
21  
22  
23  
24  
25



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## I N D E X

## WITNESSES

Amy Siebert

Denise Savageau

Katharine DeLuca

Bruce Spaman - Page 9

Kenneth B. Bowes

Raymond Gagnon

Jacqueline A. Gardell

Michael Libertine - Page 168

## EXAMINATION

Mr. Mercier Page 16

Ms. Dubuque Page 85

Mr. Bergamo Page 120

Ms. Edwards Page 148

Mr. Rosenthal

Ms. Bain Page 171

	<b>across (1)</b> 152:22	<b>Administrative (10)</b> 5:14;105:3;161:14; 170:12,16,19,22; 175:7,16,24	<b>145:9;154:25;155:15; 156:2;160:6;176:12; 178:7;183:10;186:23</b>	<b>122:9,11,13,14; 126:2,2</b>
<b>§</b>	<b>Act (1)</b> 5:14	<b>administratively (1)</b> 161:23	<b>age (1)</b> 74:14	<b>alternative (10)</b> 27:10;33:24;77:17; 132:1,4,10;137:18; 141:7;149:1;165:9
<b>\$1.4 (1)</b> 164:17	<b>acting (1)</b> 49:9	<b>admission (3)</b> 12:4;13:18;171:2	<b>agency (2)</b> 51:20,25	<b>alternatives (4)</b> 12:15;14:3,6,8
<b>\$140 (2)</b> 140:17;143:16	<b>action (2)</b> 147:15;162:23	<b>admit (2)</b> 16:23;170:10	<b>agenda (2)</b> 6:8;161:15	<b>Although (3)</b> 7:3;76:5;182:10
<b>A</b>	<b>active (1)</b> 31:17	<b>admitted (2)</b> 12:18;171:7	<b>ago (4)</b> 24:1;69:19;151:5; 156:7	<b>always (4)</b> 58:18;65:19;113:1; 125:3
<b>aback (1)</b> 40:3	<b>activities (1)</b> 163:6	<b>adopt (5)</b> 10:4,23;11:12,22; 169:14	<b>agree (12)</b> 28:18,22;29:17; 73:11,13;81:10,14; 98:7;129:24;140:15; 142:23;180:9	<b>amenable (1)</b> 22:3
<b>able (16)</b> 22:21;25:1;30:2; 31:21;32:4;66:23; 75:13;92:6;108:22; 109:24;133:25; 146:12;163:13;189:9, 13,19	<b>activity (3)</b> 31:23;105:6;147:10	<b>adopting (2)</b> 79:3;80:14	<b>agreeable (1)</b> 90:19	<b>amendment (1)</b> 46:2
<b>above (4)</b> 30:16;60:25;101:3; 191:18	<b>actual (7)</b> 54:17;92:6;105:23; 171:16;175:20; 181:25;183:20	<b>advance (1)</b> 185:24	<b>agreed (1)</b> 16:8	<b>among (1)</b> 96:25
<b>absolutely (4)</b> 74:24;81:10;85:16; 89:23	<b>Actually (23)</b> 18:3,13;28:11; 52:10,14;55:14; 80:21;82:16;83:19, 24;91:25;104:5; 115:14;118:5;133:1, 18;137:11;138:25; 150:10;172:20; 173:20;180:2,5	<b>advantage (1)</b> 132:19	<b>agreement (3)</b> 66:24,25;100:9	<b>amount (4)</b> 31:16;44:6;129:22; 182:18
<b>Academy (1)</b> 151:4	<b>add (7)</b> 38:11;39:12;42:12; 72:12;104:5;112:6; 135:13	<b>advantageous (2)</b> 112:12,14	<b>ahead (7)</b> 9:17;18:2;20:3; 38:9;162:17;185:14; 188:9	<b>Amy (1)</b> 8:23
<b>accept (9)</b> 8:7;14:11;16:8; 74:6;75:4;99:22; 121:5;185:17;187:12	<b>added (4)</b> 44:22;111:22; 169:23;189:18	<b>adversely (1)</b> 7:21	<b>AICP (1)</b> 8:25	<b>analogy (1)</b> 72:24
<b>acceptable (3)</b> 31:7,25;188:19	<b>adding (3)</b> 17:15;45:3;135:15	<b>advisory (1)</b> 80:19	<b>air (3)</b> 90:24,25;91:12	<b>analysis (5)</b> 88:9;136:9,23; 138:1;177:11
<b>accepted (1)</b> 74:6	<b>addition (1)</b> 156:4	<b>aesthetic (1)</b> 119:13	<b>albeit (1)</b> 59:4	<b>And/or (3)</b> 111:13;119:1,9
<b>access (5)</b> 19:13;147:1,2,7; 163:6	<b>additional (13)</b> 19:15;20:24;21:5; 64:3;112:19;116:5; 117:22;118:13;121:9; 126:23;138:5;167:23; 189:17	<b>affect (6)</b> 25:12;69:8;125:13; 144:17,18,18	<b>allow (3)</b> 46:16;162:7,17	<b>angle (3)</b> 86:18;89:8,18
<b>accidents (2)</b> 158:11,23	<b>additions (7)</b> 9:23;10:17;11:6,19; 125:8;169:4;170:6	<b>affected (2)</b> 7:21;69:9	<b>allowed (1)</b> 9:16	<b>announces (1)</b> 190:4
<b>accommodate (1)</b> 21:8	<b>address (5)</b> 32:6;64:20;112:24; 116:17;143:23	<b>affecting (1)</b> 29:22	<b>allowing (1)</b> 7:6	<b>annual (17)</b> 103:16;104:12,14, 22;105:2;123:10; 124:3;177:4,7,21; 178:4,11;179:4,25; 180:1;182:5,18
<b>accomplished (1)</b> 23:13	<b>addressed (6)</b> 52:17;66:1,13;95:2; 111:1;135:18	<b>affirmative (1)</b> 162:23	<b>allows (1)</b> 83:2	<b>anomaly (7)</b> 45:6;68:23;69:5,6, 16;70:6;119:18
<b>accordance (1)</b> 6:7	<b>addresses (2)</b> 110:16;116:25	<b>afflicted (1)</b> 64:13	<b>All-Points' (1)</b> 102:15	<b>ANSI (1)</b> 91:24
<b>according (2)</b> 29:20;36:3	<b>addressing (2)</b> 114:4;116:12	<b>afford (1)</b> 50:1	<b>almost (9)</b> 43:2;45:15;49:22, 22,22;51:7;66:22; 140:6;158:17	<b>answered (5)</b> 58:2;91:3;94:19; 102:4;137:24
<b>account (4)</b> 75:1;180:23;181:7, 13	<b>adhered (1)</b> 98:25	<b>afraid (1)</b> 187:25	<b>alone (1)</b> 19:15	<b>apologies (1)</b> 160:11
<b>accurate (10)</b> 10:2,21;11:10; 94:10,12;95:8,9; 138:21;169:10;170:3	<b>adjacent (1)</b> 29:16	<b>afternoon (6)</b> 108:11;120:14,18; 148:13;172:6;188:18	<b>along (23)</b> 13:5;38:19;39:7,7, 23;52:20;55:15,17, 21;58:7;60:10;63:17; 78:13;111:15;113:4; 118:1;125:8;142:8; 152:14;156:16;157:6; 165:3;166:9	<b>apologize (2)</b> 136:16;141:4
<b>achieve (2)</b> 86:11,19	<b>adjusted (1)</b> 179:25	<b>Again (63)</b> 19:1;20:7,16;31:5; 35:11;36:24;39:24; 41:21;44:3,20;50:3,4; 51:2,13;52:11;54:10; 56:16;57:21;58:17; 59:13;60:11;61:14, 18;62:10;63:13; 64:20;69:17;72:12, 22,24;73:3,3;74:22; 82:11,20,25;87:1,5, 18;88:19,23;89:15; 94:18;106:22;107:9; 111:5;113:23;114:13; 121:19;134:3;137:17; 139:9;141:4;143:19;	<b>alter (1)</b> 104:5	<b>apparently (5)</b> 15:9;16:9;174:3; 181:13;184:13
<b>achieved (1)</b> 121:18			<b>alterate (4)</b> 52:20;138:7; 153:12;159:17	<b>appear (3)</b> 6:14;15:2;97:19
<b>acknowledging (1)</b> 114:14			<b>alternates (6)</b>	<b>appears (4)</b> 18:25;29:15;98:7; 130:2
<b>acquired (1)</b> 22:14				<b>appliance (1)</b> 181:15

<p><b>applicant (12)</b> 120:22;121:1; 122:9,15;126:3,7; 127:14,20;130:13; 138:20;139:15;161:8</p> <p><b>applicant's (3)</b> 68:15;140:10;142:5</p> <p><b>application (24)</b> 5:15;6:1,29;21; 31:2;33:14;43:11,19; 44:17;86:17,20;89:3; 94:9;100:14;101:23; 102:5;115:20;122:17; 126:6,8;129:6; 133:22;140:10;142:5; 147:13</p> <p><b>appreciate (8)</b> 38:13,23;39:14; 67:10;75:19;102:3; 107:20;162:19</p> <p><b>approach (1)</b> 188:8</p> <p><b>appropriate (2)</b> 84:25;159:1</p> <p><b>approval (1)</b> 38:16</p> <p><b>approvals (1)</b> 125:4</p> <p><b>approved (2)</b> 99:1;148:7</p> <p><b>approximately (4)</b> 5:4,22;124:4; 167:11</p> <p><b>Aquarion (1)</b> 49:25</p> <p><b>arboriculture (1)</b> 163:14</p> <p><b>area (78)</b> 16:10;26:16;28:4, 21,22,25;29:1,2,8,9, 18,19,21;30:4,12,18, 23;31:8,9,14,15;33:8; 43:18,19,21,22,23,25; 44:2,2,4,5;47:14; 55:23;56:14;57:17, 17,23;61:22;62:9; 67:21;76:2;82:2,5,12, 12,13,23;83:3;84:16, 16,17;85:1;90:5,8; 96:6;118:23;119:9; 143:1;144:7,15; 145:2;146:1,4,5,25; 147:5;156:7,21; 157:2,7,13;158:6,11, 24;159:7;178:10; 179:25</p> <p><b>areas (18)</b> 27:3,15,19;28:17, 19;30:9,17,24;33:14, 16;36:9,10;44:1,15; 47:13;113:20;125:9, 10</p> <p><b>argument (1)</b></p>	<p>110:13</p> <p><b>around (6)</b> 22:1;33:10;76:12; 145:8;147:7;183:9</p> <p><b>articles (2)</b> 100:25;101:7</p> <p><b>ASHTON (35)</b> 14:14,18,21;23:8; 24:18;25:3;42:19,20; 43:8,12;45:7,20;46:5, 9,16,21,25;47:4,16; 48:3,20;49:4,11; 50:11,15;51:15,19,24; 52:5,18;53:3,10,14; 76:5;186:21</p> <p><b>aspects (2)</b> 52:2;133:3</p> <p><b>assess (1)</b> 185:22</p> <p><b>assist (3)</b> 86:8;174:24;176:3</p> <p><b>associated (2)</b> 23:19;115:6</p> <p><b>assume (3)</b> 17:14;47:25;186:8</p> <p><b>assumed (2)</b> 109:9;110:2</p> <p><b>assuming (10)</b> 21:3,6,6,9;38:4; 53:6;98:8;110:5,12; 146:16</p> <p><b>assumption (1)</b> 110:9</p> <p><b>attached (2)</b> 15:1;102:11</p> <p><b>attachment (1)</b> 171:14</p> <p><b>attempting (1)</b> 18:14</p> <p><b>attended (1)</b> 51:15</p> <p><b>attention (2)</b> 23:20;81:6</p> <p><b>attest (1)</b> 15:5</p> <p><b>Attorney (8)</b> 13:21;107:20; 120:12;162:20; 164:25;175:2,4;188:6</p> <p><b>attorneys (2)</b> 42:2;189:2</p> <p><b>attributes (1)</b> 25:17</p> <p><b>audience (1)</b> 162:2</p> <p><b>auditorium (1)</b> 151:7</p> <p><b>August (2)</b> 69:11;72:21</p> <p><b>authenticity (1)</b> 15:5</p> <p><b>authorization (1)</b> 107:3</p>	<p><b>automatic (4)</b> 68:1,1;114:9,16</p> <p><b>automatically (1)</b> 113:15</p> <p><b>automation (1)</b> 113:14</p> <p><b>available (6)</b> 6:8;47:22;70:15; 97:20;101:20;135:6</p> <p><b>Avenue (23)</b> 5:19;44:3;55:7,24; 56:3,5,6;63:21,23,24; 119:4,5,6;128:5; 146:25;147:9;156:16, 18;158:20;165:19,20, 21;166:10</p> <p><b>average (2)</b> 74:11,17</p> <p><b>averaged (1)</b> 177:14</p> <p><b>averages (4)</b> 73:18;184:21; 185:1,17</p> <p><b>avoid (2)</b> 25:25;31:15</p> <p><b>avoids (1)</b> 33:12</p> <p><b>award (1)</b> 83:9</p> <p><b>awards (1)</b> 83:12</p> <p><b>aware (14)</b> 21:16;66:15; 102:19;104:3,20; 105:5;111:22;115:13; 117:3;122:17;127:23; 128:3;130:10;159:20</p> <p><b>away (1)</b> 43:1</p>	<p><b>backup (5)</b> 38:23;53:20,21; 54:6,7</p> <p><b>bad (1)</b> 65:22</p> <p><b>BAIN (58)</b> 4:14;172:5,5,10,19; 173:2,6,13,25;174:12, 15,18;175:11,18; 176:4,16,19,25;177:3, 20,24;178:2,8,11,14, 17,20,25;179:3;180:5, 10,15,18,22;181:6,11, 20;182:1,13,19;183:1, 5,13,17;184:1,5,12, 18,24;185:3,8;187:11, 22;188:3;190:10,15, 20,25</p> <p><b>balance (2)</b> 52:22;114:17</p> <p><b>balances (2)</b> 155:10,15</p> <p><b>Ball (18)</b> 8:21;34:16;78:6; 107:19;117:25; 118:14;162:4;164:24; 165:12,24;166:4,17, 23;167:2,6,15;189:3,4</p> <p><b>ballfield (12)</b> 29:17,19,23;30:13; 31:5,12,17,19,20,21; 32:5;33:2</p> <p><b>ballfields (2)</b> 31:16,24</p> <p><b>Bank (1)</b> 149:7</p> <p><b>Barbino (1)</b> 7:10</p> <p><b>base (3)</b> 17:21;83:15;183:21</p> <p><b>based (23)</b> 13:17;17:13;19:14, 20;43:9;53:2;72:1; 74:20;75:1;97:8,16; 98:2,8;109:9;110:4; 116:9;129:24;130:1; 145:22;152:15,18; 184:6;185:3</p> <p><b>baseload (3)</b> 183:21;184:2,6</p> <p><b>basic (1)</b> 48:9</p> <p><b>basically (7)</b> 37:16;40:16;47:14; 79:14;153:6;160:5; 185:6</p> <p><b>basin (1)</b> 25:22</p> <p><b>basing (1)</b> 88:12</p> <p><b>basis (11)</b> 18:25;43:12;87:15; 88:11;97:22;101:16;</p>	<p>124:25;142:3;152:12; 155:14;183:18</p> <p><b>basket (1)</b> 72:3</p> <p><b>beaten (1)</b> 49:15</p> <p><b>became (2)</b> 24:9;97:19</p> <p><b>become (7)</b> 30:9;64:11;92:14; 148:19;171:25;172:1; 191:8</p> <p><b>becomes (2)</b> 107:24;136:1</p> <p><b>beg (1)</b> 67:24</p> <p><b>begin (2)</b> 17:4;85:12</p> <p><b>beginning (2)</b> 86:6;116:15</p> <p><b>begins (1)</b> 29:12</p> <p><b>behalf (3)</b> 12:7;37:18;123:3</p> <p><b>behind (2)</b> 78:6;88:16</p> <p><b>belief (2)</b> 88:12;143:16</p> <p><b>Bella (2)</b> 6:20;160:22</p> <p><b>belongs (1)</b> 129:16</p> <p><b>below (4)</b> 20:11,14;58:20; 60:12</p> <p><b>benchmarking (5)</b> 77:24;78:3;131:16; 132:25;133:1</p> <p><b>benefit (3)</b> 37:3;142:1;143:5</p> <p><b>bentonite (2)</b> 61:2,6</p> <p><b>BERGAMO (72)</b> 4:7;120:14,18,24; 122:8,12,18,24;123:6, 13,16,22;124:9,13,21, 24;125:5,12,22;126:1, 9,22,25;127:7,11,18; 128:4;129:7,19; 130:3,7,13,21;131:5, 10;132:21;133:7; 134:10,17,23;135:1, 10;136:8,18,22;137:6, 12,15;138:3,18;139:3, 13,24;140:3,6;141:9, 17,22;142:17,23; 143:4,15,24;144:5,10, 13,20;146:21;147:1, 11;148:9;188:25</p> <p><b>Berger (2)</b> 6:22;160:23</p> <p><b>best (9)</b> 10:2,21;11:10;</p>
		<b>B</b>		
		<p><b>Bachman (7)</b> 175:2,3,6,23;188:6, 7;189:2</p> <p><b>Bachmann (1)</b> 101:4</p> <p><b>back (31)</b> 22:19;29:14;31:21; 39:20;47:5;48:11; 52:12;55:3,15;57:16; 75:15;82:1;88:23; 89:15;94:4,4,9;96:9; 98:1,3;108:12; 110:22;118:16; 134:10;146:3;148:6; 155:22;156:6;179:15; 186:23;188:17; 190:19</p> <p><b>backcountry (1)</b> 84:17</p> <p><b>backdrop (2)</b> 44:16;66:3</p>		

58:18;127:12;146:12; 149:14;169:8;188:3	<b>box (1)</b> 159:22	<b>bulk (4)</b> 5:18;35:21;56:12; 142:2	165:16;166:6;182:13, 15;184:25;186:23,24; 190:15	<b>center (1)</b> 47:18
<b>better (5)</b> 20:1;40:21,21; 72:17;98:15	<b>boxes (1)</b> 159:16	<b>bump (1)</b> 105:12	<b>canopy (1)</b> 33:20	<b>certain (11)</b> 47:16;50:9,10;73:1; 105:10;149:12;
<b>beyond (4)</b> 21:8;22:9;93:9; 125:19	<b>branches (1)</b> 163:9	<b>buried (2)</b> 56:1,2	<b>capabilities (1)</b> 143:11	163:23;165:5;173:7; 174:24;186:2
<b>big (14)</b> 27:17,17;66:3; 83:13;102:5;133:12; 144:19;150:23;152:4, 4;153:2,4,4;154:8	<b>brand-new (1)</b> 49:18	<b>business (6)</b> 7:11;65:15;82:8; 139:25;147:8;166:22	<b>capability (1)</b> 143:13	<b>certainly (18)</b> 8:1;15:19;19:6,17, 24;27:11,20;38:22; 40:9;44:6;59:22; 96:19;132:18;144:17, 17;149:4;152:3; 186:25
<b>bigger (4)</b> 50:24;74:13; 114:24;153:11	<b>Branford (2)</b> 4:5,6	<b>businesses (3)</b> 103:12;125:1;157:4	<b>capacities (1)</b> 50:10	<b>certificate (1)</b> 5:16
<b>birds (1)</b> 27:20	<b>break (3)</b> 59:17;108:4;167:18	<b>busy (1)</b> 144:15	<b>capacity (27)</b> 50:19;70:13;75:7; 82:6,9;91:5,14,16,19; 110:15;121:7,11,14, 18;123:1;129:5; 135:4;136:10,11,12, 23,25;137:1;138:5,13, 15,16	<b>certification (1)</b> 134:8
<b>bit (14)</b> 40:3;57:9;58:21; 59:20;62:6,20;64:16; 76:6;77:24;78:6; 133:25;167:12; 178:21;187:17	<b>bridge (4)</b> 145:4;158:6,9,19	<b>C</b>		<b>certified (1)</b> 125:19
<b>blanked (1)</b> 184:12	<b>brief (2)</b> 172:16;189:14	<b>cable (5)</b> 13:8;71:13,15; 170:21,24	<b>capital (2)</b> 78:13;164:15	<b>cetera (2)</b> 152:24;154:20
<b>blisteringly (1)</b> 70:23	<b>briefly (2)</b> 119:19;165:5	<b>cables (1)</b> 59:21	<b>capped (2)</b> 21:16;23:5	<b>CHAIRMAN (122)</b> 5:1,5;6:16,19,25; 7:3,10;8:3,6,11,12,18; 9:17;12:3,6;13:20; 14:22,24;15:21; 16:17,18,22;17:20,25; 19:1,19;23:8;25:4; 34:1,5;37:10,14; 40:23;41:2;42:18,19; 53:11,13;62:4,21; 64:1,5;65:3;66:15,19; 67:7;68:10;70:5;73:9; 75:12;82:25;85:5,8, 11;108:2,8;119:17, 23;120:1,4,8,9,12,15; 127:4,8,9;128:17; 131:1;148:10;154:13; 158:12;159:2;160:8, 12,19,21;161:1,3,6, 17,22,25;162:4,8,12, 19;164:1,23;167:17, 21;168:6;170:9,13, 25;171:1,4,6,10; 176:22;179:10,12,14, 16;185:1,25;186:12, 13;187:3,16,25;188:5, 21;189:5,11,24;190:3, 10,13,18,23;191:2
<b>block (3)</b> 154:8;173:10,12	<b>bring (6)</b> 66:6;76:3;80:11; 128:8;133:16;175:1	<b>calculated (2)</b> 185:2,5	<b>car (3)</b> 93:6,10,16	<b>car (3)</b> 93:6,10,16
<b>Bloom (2)</b> 159:16,21	<b>bringing (3)</b> 51:13;88:23;89:15	<b>calculation (1)</b> 184:20	<b>careful (1)</b> 88:9	<b>Carolina (1)</b> 73:23
<b>blow (1)</b> 93:5	<b>brings (2)</b> 45:23;135:11	<b>calculator (1)</b> 98:16	<b>Carolina (1)</b> 73:23	<b>carried (1)</b> 135:5
<b>blue (1)</b> 33:11	<b>Britain (2)</b> 5:11;190:6	<b>calculators (1)</b> 185:13	<b>case (13)</b> 16:13;40:9;47:17, 17;52:23;96:2,4,10; 136:3,5;153:13; 171:23;191:16	<b>cases (1)</b> 159:9
<b>board (1)</b> 152:22	<b>bronchitis (1)</b> 120:17	<b>calendar (2)</b> 123:10;124:3	<b>catches (1)</b> 145:10	<b>category (2)</b> 69:20;104:6
<b>bodies (1)</b> 58:16	<b>brownfield (3)</b> 21:17;22:23;23:5	<b>call (3)</b> 5:2;6:10;149:10	<b>catenary (1)</b> 35:22	<b>cause (4)</b> 32:20;60:7;117:4,8
<b>bone (1)</b> 20:1	<b>Bruce (25)</b> 9:2;28:7,10;35:3; 36:9,25;37:2,5,5,22; 38:6;55:6,24;56:5,8; 57:24;63:20;64:6; 102:12;118:7;119:5; 127:1,3;141:7;165:20	<b>called (2)</b> 9:9;69:1	<b>caused (1)</b> 32:18	<b>causing (1)</b> 173:20
<b>both (9)</b> 13:11;60:23;63:22; 71:19;99:17;106:18; 108:2;147:2;175:25	<b>buffer (2)</b> 35:18;38:19	<b>came (7)</b> 43:1;83:6,11;88:21; 89:16;95:24;98:4	<b>caution (1)</b> 16:12	<b>challenge (3)</b> 16:5;74:13;80:22
<b>bottom (5)</b> 12:23;37:25;58:20; 109:19;166:22	<b>bugs (1)</b> 59:8	<b>can (91)</b> 6:11;15:4,6,8,13, 18;18:9;19:1,17; 20:12;22:18;23:13; 38:22;42:12;48:4,21, 24;49:25;50:7;52:6; 53:11,21;55:4;57:4, 16;59:8;60:3,3,4; 62:4;64:8;66:1;67:24; 68:5,5;72:22,24,25; 75:14;87:7,15;90:12, 17;92:2,7,21;93:23; 94:13;97:9,10;98:5; 105:8,11;106:25; 114:10;117:11,17; 118:10;122:22; 127:16;128:18;132:3, 8,13;133:1;134:15; 135:12;136:21; 139:11;140:13; 142:23;143:13; 146:16,17;152:1,8,8; 153:19;155:21;159:2; 162:16,23;163:17;	<b>caused (1)</b> 32:18	<b>challenged (1)</b> 13:16
<b>Bowes (51)</b> 19:3;108:15; 113:12;168:8,22,25; 169:5,11,16;171:18; 172:8,15;173:1,4,9, 23;174:10,13,17; 176:18;177:2,8,22; 178:1,6,9,13,16,18, 23;179:2,17;180:8,13, 17,20,25;181:9,17,23; 182:4,16,21;183:3,8, 15,18,23;184:4,15,23	<b>build (3)</b> 50:22;73:4;121:12	<b>can (91)</b> 6:11;15:4,6,8,13, 18;18:9;19:1,17; 20:12;22:18;23:13; 38:22;42:12;48:4,21, 24;49:25;50:7;52:6; 53:11,21;55:4;57:4, 16;59:8;60:3,3,4; 62:4;64:8;66:1;67:24; 68:5,5;72:22,24,25; 75:14;87:7,15;90:12, 17;92:2,7,21;93:23; 94:13;97:9,10;98:5; 105:8,11;106:25; 114:10;117:11,17; 118:10;122:22; 127:16;128:18;132:3, 8,13;133:1;134:15; 135:12;136:21; 139:11;140:13; 142:23;143:13; 146:16,17;152:1,8,8; 153:19;155:21;159:2; 162:16,23;163:17;	<b>causing (1)</b> 173:20	<b>challenges (3)</b> 26:24;27:1;84:23
<b>Bowes' (2)</b> 19:22;114:13	<b>building (34)</b> 76:21;78:18,20; 79:1,4,13,18;80:12; 81:3;83:22;93:21; 94:2;103:17,21,24; 105:6,17;106:1; 124:18;133:23;134:1; 149:4,6,16,25;150:5, 6,13,16,19;151:7,13; 152:23;157:8	<b>can (91)</b> 6:11;15:4,6,8,13, 18;18:9;19:1,17; 20:12;22:18;23:13; 38:22;42:12;48:4,21, 24;49:25;50:7;52:6; 53:11,21;55:4;57:4, 16;59:8;60:3,3,4; 62:4;64:8;66:1;67:24; 68:5,5;72:22,24,25; 75:14;87:7,15;90:12, 17;92:2,7,21;93:23; 94:13;97:9,10;98:5; 105:8,11;106:25; 114:10;117:11,17; 118:10;122:22; 127:16;128:18;132:3, 8,13;133:1;134:15; 135:12;136:21; 139:11;140:13; 142:23;143:13; 146:16,17;152:1,8,8; 153:19;155:21;159:2; 162:16,23;163:17;	<b>caution (1)</b> 16:12	<b>chance (3)</b> 71:8;75:19;96:23

<p>171:23;187:7 <b>changed (6)</b> 45:21;78:5;139:20; 154:10;155:21; 177:21 <b>changeover (2)</b> 113:3;125:6 <b>changer (3)</b> 108:14,18,21 <b>changes (4)</b> 20:24;78:24; 116:20;125:13 <b>changing (2)</b> 73:6;153:25 <b>characteristic (1)</b> 23:17 <b>charged (1)</b> 77:8 <b>Charleston (1)</b> 73:23 <b>chart (6)</b> 97:17;123:22; 125:23;153:17;184:5; 190:16 <b>check (10)</b> 98:13;174:11; 185:8,13,17;187:6,13, 15,18;188:17 <b>checked (1)</b> 187:18 <b>checking (1)</b> 117:9 <b>checks (2)</b> 155:9,15 <b>Chiropractic (2)</b> 6:21;160:22 <b>choice (1)</b> 99:19 <b>choose (1)</b> 24:18 <b>chose (1)</b> 177:6 <b>chosen (2)</b> 36:1;90:6 <b>CHRISTINE (2)</b> 4:10;148:12 <b>circuit (2)</b> 163:23;172:24 <b>circuits (4)</b> 5:21;13:8;135:5; 163:23 <b>circumference (1)</b> 158:21 <b>citations (1)</b> 77:2 <b>cites (1)</b> 116:16 <b>City (5)</b> 89:5,11;127:14; 130:10;147:2 <b>city's (1)</b> 129:9 <b>CL&amp;P (2)</b></p>	<p>48:21;123:8 <b>claim (3)</b> 13:24,25;14:14 <b>clarifications (6)</b> 9:23;10:17;11:6,19; 169:4;170:6 <b>clarify (3)</b> 62:19;141:23;165:7 <b>clarifying (1)</b> 34:19 <b>clean (6)</b> 77:21;78:21; 131:14,23;149:7; 162:6 <b>cleanup (2)</b> 161:4,9 <b>clear (8)</b> 14:17;33:2;53:19; 54:5;61:12;76:4; 85:16;189:7 <b>clearance (3)</b> 159:8,10;164:5 <b>clearances (2)</b> 109:5;163:7 <b>clear-cut (1)</b> 46:10 <b>clearing (7)</b> 30:12;31:5,6;33:13, 15,19;61:14 <b>clearly (3)</b> 120:17;122:5; 185:20 <b>clerk's (2)</b> 6:4;191:13 <b>climate (5)</b> 69:1;70:4;72:7; 73:11;74:4 <b>close (4)</b> 157:7;187:17,20; 188:18 <b>closed (2)</b> 27:24;191:15 <b>closely (1)</b> 76:10 <b>closer (1)</b> 58:21 <b>closes (1)</b> 191:11 <b>Coast (1)</b> 76:3 <b>coastal (2)</b> 26:19,22 <b>Cob (31)</b> 5:23;12:15;18:18; 21:4;48:16;55:14,16; 70:15;72:4;82:10; 91:17;92:2,3;96:1,3; 110:14,18;111:3; 113:14;121:19; 135:24;136:6;140:23; 142:7,19;143:22; 145:18;147:20; 151:17;152:17;184:7</p>	<p><b>cocktail (1)</b> 65:13 <b>code (1)</b> 109:6 <b>codes (8)</b> 78:20;79:1,14;80:8, 12;81:1,4;149:6 <b>Cohen (1)</b> 8:19 <b>collaborate (1)</b> 99:9 <b>collaborating (1)</b> 42:14 <b>collaboration (1)</b> 117:20 <b>collaborative (2)</b> 23:24;39:6 <b>collaboratively (2)</b> 39:25;127:25 <b>column (2)</b> 180:7;185:9 <b>combination (1)</b> 84:5 <b>comfort (1)</b> 103:12 <b>coming (14)</b> 54:25;66:2;73:15, 18;82:10;87:18;89:9, 17;95:4,25;125:1; 134:7;150:5;165:19 <b>commencement (1)</b> 98:23 <b>comment (5)</b> 34:7;81:10;82:4; 89:25;154:15 <b>commented (1)</b> 39:18 <b>commenting (1)</b> 95:25 <b>comments (12)</b> 12:8,10,22;37:3; 39:9,20,20;42:12,22; 81:19;115:24;124:17 <b>commercial (10)</b> 124:7,24;125:9,10; 131:20;134:4;152:24; 157:15;158:18; 159:16 <b>commission (9)</b> 40:13;46:1,7;71:4; 77:8;100:20;103:4; 150:14;155:18 <b>Commissioner (1)</b> 8:24 <b>commissions (1)</b> 46:7 <b>commitment (1)</b> 149:24 <b>committee (5)</b> 131:19;149:4,16; 155:12,19 <b>common (3)</b> 55:5,10;119:6</p>	<p><b>communicated (1)</b> 147:16 <b>communication (1)</b> 19:2 <b>communities (2)</b> 41:5;81:11 <b>community (13)</b> 42:10;45:17;66:22; 77:11,11,22;79:11,17; 80:1;131:15,17,24; 157:11 <b>companies (1)</b> 19:2 <b>Company (6)</b> 7:11;85:22;129:17; 163:22;164:9;177:3 <b>compare (4)</b> 18:23;36:24,24; 175:22 <b>compared (2)</b> 36:13;177:16 <b>comparison (2)</b> 153:15;179:19 <b>compatibility (2)</b> 5:16;109:3 <b>competence (1)</b> 23:15 <b>compilation (2)</b> 186:18;189:6 <b>compiled (1)</b> 186:1 <b>compiling (1)</b> 184:9 <b>completed (2)</b> 60:22;98:21 <b>completely (1)</b> 152:9 <b>complex (3)</b> 41:5;83:18,21 <b>compliance (2)</b> 46:3;79:3 <b>complicated (1)</b> 39:18 <b>comply (1)</b> 79:16 <b>compounded (6)</b> 177:4,7,20;178:4, 11;179:4 <b>comprehensive (2)</b> 75:17;77:7 <b>compromise (1)</b> 86:24 <b>concern (5)</b> 30:11;60:21;65:12; 82:12;119:13 <b>concerned (13)</b> 26:7,11,19;27:13, 18,25;31:19;32:2,3, 11;53:9;60:25;66:11 <b>concerns (13)</b> 8:9;37:19,22;57:19; 59:18;60:8;61:13,16; 87:5;89:20;144:21,</p>	<p>25;145:21 <b>concluded (1)</b> 191:18 <b>conclusion (3)</b> 12:24;43:13;87:16 <b>conditions (4)</b> 7:19;60:5,12;86:24 <b>condominiums (1)</b> 157:19 <b>conductors (5)</b> 114:19,20,20; 115:5,6 <b>confer (2)</b> 189:10,16 <b>confidential (2)</b> 171:14,20 <b>confirm (6)</b> 33:18;34:8,11; 35:10;158:10;187:2 <b>confused (1)</b> 84:11 <b>confusing (2)</b> 62:6,20 <b>confusion (1)</b> 62:8 <b>connect (1)</b> 166:10 <b>Connecticut (25)</b> 4:6;5:3,6,13,20,24; 7:11;22:16,20;27:4,8; 66:22;76:9;78:1;79:7; 80:12;107:11;123:8, 9;124:3;149:6; 161:18;177:14;178:3; 179:24 <b>connection (1)</b> 68:9 <b>cons (3)</b> 34:22,25;35:13 <b>consent (1)</b> 171:22 <b>Conservation (27)</b> 9:1;44:9,12;45:8; 46:4;47:11;76:11,25; 77:2,5,8,9,16;81:12; 89:6;124:19;132:18; 139:19;150:15;152:6; 154:22;155:1,2,5,7, 14;157:9 <b>conservative (1)</b> 50:7 <b>consider (3)</b> 37:5;75:20;179:7 <b>considerable (2)</b> 13:1;101:6 <b>consideration (5)</b> 7:23;20:10,13; 42:24;139:14 <b>considered (2)</b> 8:1;179:8 <b>considering (2)</b> 52:1;102:20 <b>consistent (5)</b></p>
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97:16;123:23; 124:13,17,20 <b>consistently (1)</b> 92:15 <b>construct (2)</b> 71:12;91:21 <b>constructed (1)</b> 49:13 <b>construction (17)</b> 5:17;13:3,9;56:21; 83:23;92:6;98:20; 99:10,11;104:21; 105:6;144:6,12; 152:23;153:5;154:19, 19 <b>constructions (1)</b> 28:1 <b>consult (1)</b> 122:24 <b>consultation (3)</b> 40:14;102:6;123:1 <b>consulted (1)</b> 101:16 <b>CONSUMER (5)</b> 4:12;120:6;135:12; 167:23;172:6 <b>consuming (1)</b> 59:13 <b>consumption (4)</b> 88:6;97:14,23; 125:20 <b>contacted (3)</b> 15:15;18:16;121:23 <b>contains (1)</b> 13:14 <b>continuation (1)</b> 5:8 <b>Continue (7)</b> 20:3;60:16;84:22; 115:11;170:11;171:8; 190:4 <b>contrast (1)</b> 71:10 <b>control (2)</b> 30:1;108:22 <b>convenience (1)</b> 6:5 <b>converging (1)</b> 147:10 <b>conversant (1)</b> 13:9 <b>conversation (3)</b> 24:11;25:2;67:12 <b>conversely (1)</b> 111:12 <b>conversions (1)</b> 114:21 <b>converted (1)</b> 114:22 <b>copies (5)</b> 6:8;100:13;175:1; 184:11;191:11 <b>copy (2)</b>	174:19,23 <b>corner (3)</b> 147:7;158:19; 188:24 <b>correction (1)</b> 17:17 <b>corrections (2)</b> 169:4;170:6 <b>correctly (6)</b> 43:20;58:17;64:12; 92:1;136:2;137:5 <b>correlated (1)</b> 177:9 <b>corridor (2)</b> 156:14;165:4 <b>Cos (31)</b> 5:23;12:15;18:18; 21:4;48:16;55:14,16; 70:14;72:4;82:10; 91:17;92:2,3;96:1,3; 110:14,18;111:3; 113:14;121:19; 135:24;136:6;140:22; 142:7,18;143:21; 145:18;147:20; 151:17;152:17;184:7 <b>cost (5)</b> 36:18,22;66:9; 121:14;149:20 <b>costs (4)</b> 13:10;115:5,8; 149:24 <b>cost-sharing (1)</b> 66:25 <b>Council (43)</b> 5:3,6;6:2;8:8,18; 12:17;14:2,8,11; 15:18;17:3;24:8,19; 40:2,18;51:9;64:19; 66:7,17;68:13;80:19; 85:14;86:8;99:1; 102:13;120:20;123:8; 137:21;141:5;146:10; 148:7;158:25;160:5; 165:2;170:9,15,23; 174:22;185:20; 188:22;190:3;191:9, 10 <b>councilmembers (1)</b> 37:11 <b>Council's (2)</b> 85:13;147:18 <b>COUNSEL (7)</b> 4:12;120:6;167:23; 172:6;186:19;189:13, 16 <b>counselor (1)</b> 135:12 <b>countries (1)</b> 73:13 <b>country (2)</b> 82:1;151:8 <b>County (2)</b>	44:15;90:5 <b>couple (7)</b> 22:13;26:3;42:25; 77:1;84:20;132:7; 161:4 <b>course (4)</b> 72:7;81:13;145:24; 187:16 <b>cover (2)</b> 75:6;152:18 <b>covered (1)</b> 84:4 <b>CPACE (3)</b> 131:18,20;134:3 <b>create (2)</b> 58:23;83:3 <b>created (1)</b> 68:22 <b>creating (1)</b> 57:2 <b>creation (1)</b> 148:25 <b>creatures (1)</b> 59:9 <b>credit (1)</b> 162:14 <b>credits (1)</b> 131:25 <b>criteria (1)</b> 149:18 <b>crierias (1)</b> 79:24 <b>critical (4)</b> 16:2;19:23;28:4; 103:11 <b>cross (2)</b> 120:7;176:3 <b>cross-examination (11)</b> 16:1,24;85:9;108:9; 119:24;120:5,10; 161:8;167:22;171:8; 174:25 <b>cultural (1)</b> 25:9 <b>curious (1)</b> 54:6 <b>current (1)</b> 130:24 <b>currently (1)</b> 129:11 <b>curtailment (1)</b> 183:20 <b>curve (1)</b> 49:20 <b>customer (4)</b> 80:4;114:22; 171:21,21 <b>customers (14)</b> 80:5;86:14;95:18; 96:15,16,18;141:25; 142:24;143:6;172:13; 173:7,10,11;183:20 <b>cutting (1)</b>	163:9 <b>D</b> <b>damage (2)</b> 30:13;64:22 <b>dang (1)</b> 72:20 <b>data (18)</b> 53:20,22;54:6,7; 72:13,17;74:22; 97:19;105:23;174:23, 23;175:17;177:13; 180:3;181:10;184:9; 186:18;187:2 <b>date (4)</b> 24:24;123:15; 186:12;187:9 <b>dated (7)</b> 12:10;64:11; 120:20;123:8;161:19; 168:19,21 <b>David (1)</b> 8:21 <b>Davis (6)</b> 55:7,24;56:3,5; 63:23,24 <b>day (5)</b> 41:7,11,22;74:14; 151:9 <b>days (4)</b> 70:9,11;71:21;72:8 <b>day-to-day (1)</b> 103:11 <b>deal (6)</b> 40:17;50:8,8;66:4; 129:3;186:13 <b>dealing (2)</b> 60:1;105:10 <b>deals (1)</b> 77:4 <b>December (7)</b> 5:10;69:7,10;74:10; 81:23;97:20;170:15 <b>decent (1)</b> 25:1 <b>decide (1)</b> 84:22 <b>decided (1)</b> 45:17 <b>deciding (1)</b> 75:13 <b>declare (1)</b> 191:14 <b>decline (4)</b> 176:11,13;177:1; 178:25 <b>declines (1)</b> 176:20 <b>decrease (6)</b> 124:6,12;130:25; 131:6,9;182:18 <b>decreased (1)</b>	130:23 <b>deep (4)</b> 42:24;58:3,6,11 <b>deeper (1)</b> 16:1 <b>defective (1)</b> 164:18 <b>define (1)</b> 188:1 <b>defines (2)</b> 93:19,25 <b>definite (1)</b> 45:1 <b>Definitely (2)</b> 30:16;54:15 <b>deletions (1)</b> 9:23 <b>delivered (2)</b> 142:12,15 <b>DeLuca (237)</b> 8:25;9:18,21,25; 10:3,6;15:14,19;17:9, 16,23;18:9,15;19:9; 20:15;21:2;23:21; 24:21;25:14;33:21; 34:3,6,21;35:11; 36:15;37:15,24;38:3, 7,10,13,25;39:13,23; 40:25;41:13;43:6,9, 16;45:14,24;46:8,14, 19,22;47:1,8,24;48:5; 49:1,5;51:21;52:3,7, 25;53:5,23;54:2;62:3, 17;65:1,6;66:18;67:2, 9;70:3,7;75:3;81:9; 85:19,24;86:3,16,25; 87:17;88:3,15;89:14, 22;90:3,15,23;91:10; 92:5,22,25;93:22; 94:3,13,16;95:12,20, 23;96:19;97:1,5,7,18, 25;98:10,15;99:2,18, 21;100:6,11,16;101:2, 13,18;102:1,10,16,23; 103:6,9,14,19;104:2, 7,16;106:6,11,16,21; 107:4,9,24;108:17,23; 109:7,16;110:1,19; 111:24;112:4,9; 113:17;114:5,23; 115:9,18;116:22; 117:5,16;118:4,18,21; 119:14;120:23;121:3; 122:10,16,22;123:4, 18;124:1,11,16,23; 125:2,7,17,24;126:5, 12,24;127:16,24; 128:10,19;129:23; 130:5,11,19;131:3,7; 134:18,25;135:8,14; 136:16,20;137:3,9,13, 16;138:8,22;139:6, 17;140:2,4,14;141:13,
--	---	---	--	--

19;142:4,20;143:2,7, 18;144:2,8,11,14,24; 146:24;147:4,17; 150:9;151:10,20; 152:13;153:8,14; 154:6,21;156:1,10,17, 20,25;157:17,21,24; 159:19,25;164:25; 165:10,11,18;166:3,7, 21;167:1,4,8 <b>demand (8)</b> 50:20;76:23;81:7; 172:11,20;173:17; 174:2;180:16 <b>demolished (2)</b> 105:20;173:16 <b>demonstrate (1)</b> 18:14 <b>demonstrated (3)</b> 120:25;121:2;144:3 <b>Denise (4)</b> 9:1;57:19;61:13; 105:13 <b>denotes (1)</b> 122:20 <b>deny (1)</b> 163:6 <b>Department (7)</b> 22:25;23:10;105:6; 106:2;107:13;133:23; 151:24 <b>departments (1)</b> 78:19 <b>dependency (1)</b> 132:22 <b>depending (3)</b> 33:15;45:22;60:4 <b>depends (2)</b> 30:22;58:12 <b>depict (1)</b> 15:9 <b>deposited (1)</b> 6:4 <b>depth (2)</b> 101:21;102:8 <b>describe (5)</b> 55:4;142:6;162:23; 165:16;166:6 <b>described (2)</b> 88:17;166:14 <b>describing (1)</b> 153:13 <b>description (1)</b> 29:20 <b>deserve (1)</b> 163:3 <b>deserves (1)</b> 23:20 <b>deserving (1)</b> 42:24 <b>design (5)</b> 13:2,11;15:17; 72:16;130:4 <b>designed (1)</b> 92:18 <b>desirable (3)</b> 35:1;36:2;167:14 <b>desired (1)</b> 189:21 <b>desires (1)</b> 191:8 <b>detailed (2)</b> 29:25;30:7 <b>determined (1)</b> 73:22 <b>devastating (2)</b> 27:6;56:22 <b>developed (5)</b> 43:21;44:4;82:13; 87:20;105:18 <b>developer (1)</b> 45:23 <b>development (27)</b> 44:5,10,13;45:9; 46:4;47:11,12;76:11; 77:1;81:13;82:19,22; 87:21;89:6;103:5,8; 134:7;139:19;152:5; 154:22,23;155:1,2,5, 8,14;157:9 <b>diagrams (4)</b> 18:5,6,12,13 <b>dielectric (2)</b> 13:8;71:16 <b>diesel (1)</b> 84:8 <b>difference (6)</b> 48:10;61:2;75:5; 102:5;134:13,21 <b>differences (1)</b> 90:13 <b>different (14)</b> 30:24;41:11,18; 43:17;49:20;56:25; 77:16;89:5,7;145:25; 148:22;179:18;180:1, 4 <b>difficult (3)</b> 50:6;128:21;187:17 <b>difficulty (3)</b> 17:10;18:1;53:2 <b>digested (1)</b> 59:8 <b>dimension (1)</b> 18:21 <b>dimensions (3)</b> 18:7,24;20:18 <b>directed (1)</b> 150:3 <b>direction (1)</b> 151:3 <b>directional (4)</b> 25:11,20,25;61:10 <b>directions (1)</b> 60:4 <b>directly (1)</b> 7:22 <b>Director (5)</b> 8:25;9:1,3,10;32:3 <b>disagree (1)</b> 140:9 <b>disagreeing (2)</b> 138:19;139:4 <b>disagreement (1)</b> 68:25 <b>discharges (1)</b> 56:4 <b>disclose (1)</b> 12:13 <b>discuss (2)</b> 90:11;135:3 <b>discussed (5)</b> 18:5;126:2,20; 138:11;173:13 <b>discussing (2)</b> 42:13;54:10 <b>discussion (7)</b> 20:23;23:9,14; 117:20;128:1;149:2; 179:13 <b>discussions (1)</b> 126:13 <b>dispersed (1)</b> 60:17 <b>dispute (1)</b> 146:20 <b>disruption (4)</b> 144:12;146:4,9,18 <b>distribute (3)</b> 186:25;188:10,13 <b>distributed (1)</b> 188:10 <b>distribution (33)</b> 64:21,25;66:13,17; 67:6,17;68:3,6;84:19; 111:15;112:1;113:9; 114:7,11;115:12,15, 21;116:1,21;117:15, 19;127:15,21;128:23; 129:4;137:20;138:15; 142:15;162:22,25; 177:15,19;188:15 <b>district (3)</b> 83:2;147:8;166:22 <b>disturbs (1)</b> 69:22 <b>division (4)</b> 103:18,20,21;106:2 <b>Docket (9)</b> 5:7;15:12;51:16; 87:13;100:10;101:17; 106:20;119:20,24 <b>document (10)</b> 13:14,17;44:10; 98:19;102:17;107:22; 133:1;140:22;170:23; 179:18 <b>documentation (2)</b> 100:21;136:13 <b>documented (2)</b> 148:4;151:18 <b>documents (3)</b> 7:6;169:15;171:2 <b>dollars (1)</b> 80:23 <b>done (14)</b> 13:12;18:16;42:24; 51:5;77:23;80:6;99:5, 12;102:24;138:1,15; 146:11;147:22; 190:14 <b>door (1)</b> 6:9 <b>double (1)</b> 83:25 <b>double-pole (1)</b> 34:15 <b>down (32)</b> 26:5;28:10;29:10; 30:22;31:20;33:24; 37:4;40:10;49:17; 63:21;76:21;124:10, 22;128:8;134:24; 141:7;143:22,22; 144:19;147:25;150:6; 151:3;153:11;154:20; 158:5;165:4,20; 177:24;178:4,14; 179:5;184:24 <b>downs (1)</b> 173:15 <b>downtown (10)</b> 43:21;44:2;84:15; 85:1;119:7;144:7; 146:7,7;147:5,8 <b>draft (1)</b> 170:16 <b>drafters (1)</b> 15:3 <b>drags (1)</b> 187:9 <b>dramatic (1)</b> 187:7 <b>dramatically (2)</b> 128:22;134:19 <b>draw (1)</b> 154:12 <b>drawing (6)</b> 106:5,14;107:1,5, 14;153:5 <b>drawings (10)</b> 15:1,6,8;16:15; 29:25;63:15;106:19; 108:13;109:1;122:1 <b>dream (2)</b> 187:20;190:24 <b>dredge (1)</b> 29:5 <b>drill (4)</b> 28:21;29:13,15; 31:1 <b>drilling (18)</b> 25:12,20,25;26:9; 28:3,16;29:2,10,21; 32:7;33:2;58:19; 60:20,21,23;61:3,8,10 <b>Drive (4)</b> 28:11;55:16,17; 191:16 <b>driving (1)</b> 93:13 <b>drop (1)</b> 160:6 <b>DUBUQUE (120)</b> 7:9,10;8:10;12:6; 14:22,25;16:16; 85:10,21,25;86:4,21; 87:9,25;88:4;89:13, 19,24;90:10,21;91:7, 23;92:20,23;93:18, 24;94:6,15;95:5,14, 22;96:14,21;97:3,6,8, 21;98:6,13,17;99:14, 20,23;100:8,12,23; 101:11,15,19;102:8, 11,21;103:2,7,10,15, 22;104:3,8,14,18; 105:2,22;106:4,9,13, 18,24;107:6,15; 108:11,20,25;109:14, 18;110:12;111:18; 112:2,6,10,17;113:10, 23;114:18;115:2,13, 23;116:14;117:2,7,11, 13,21;118:3,12,16,20; 119:12,15;120:1; 162:20;165:1;168:5, 16;169:3,8,14,19; 170:2,5,8,14;176:14; 179:10,14;184:25; 185:5,11,18;189:22 <b>Dubuque's (1)</b> 107:21 <b>due (5)</b> 96:5;158:8;172:12; 173:21;174:3 <b>dug (1)</b> 56:15 <b>duly (1)</b> 9:9 <b>during (14)</b> 28:1;54:18;65:10, 20;66:5;69:10;72:9; 83:22;84:3,13;96:11; 99:10;130:8;144:12 <b>dwellings (1)</b> 173:20	
<b>E</b>	
<b>E-10 (2)</b> 43:20;82:3 <b>earlier (6)</b> 38:24;39:1;99:24; 118:6;129:14;161:16	



<p><b>easement (1)</b> 55:20</p> <p><b>easier (1)</b> 189:10</p> <p><b>easily (2)</b> 59:8;155:21</p> <p><b>east (2)</b> 119:1;166:9</p> <p><b>easternmost (1)</b> 118:19</p> <p><b>easy (2)</b> 105:8;133:23</p> <p><b>educate (1)</b> 80:1</p> <p><b>educating (1)</b> 78:22</p> <p><b>EDWARDS (28)</b> 4:10;148:12,13; 149:19,23;151:8,12; 152:7,20;153:10; 154:1,7,14;156:4,15, 19,22;157:14,18,23; 158:3,15;159:4,12,23; 160:2,10,15</p> <p><b>effect (2)</b> 79:9;114:3</p> <p><b>effectively (2)</b> 24:12;131:8</p> <p><b>efficiencies (4)</b> 79:6;80:16,25;81:3</p> <p><b>efficiency (14)</b> 78:16,23;79:16; 149:5;150:19;180:23; 181:3,7,25;182:9,14, 24;183:2,6</p> <p><b>efficient (9)</b> 49:23;52:1;76:20; 77:18;78:10,23; 80:24;148:19;188:4</p> <p><b>effort (1)</b> 107:21</p> <p><b>efforts (1)</b> 129:9</p> <p><b>eggs (1)</b> 72:3</p> <p><b>eight (5)</b> 9:12;10:12,12,14; 78:6</p> <p><b>either (9)</b> 35:7;36:7,25;84:8; 106:15;118:22,23; 159:16;181:21</p> <p><b>elaboration (1)</b> 15:20</p> <p><b>electric (9)</b> 77:5;85:22;86:2,13; 88:6;89:21;103:8,10; 123:10</p> <p><b>electrical (23)</b> 43:14,15;46:21; 70:20;76:22;87:23; 97:14;109:6;117:4,8; 124:3;125:14,15;</p>	<p>129:10,11,18,22; 130:9;139:9;160:7; 163:12;164:7;172:18</p> <p><b>electricity (7)</b> 69:9;128:7;142:15; 152:11;154:3;159:18; 163:4</p> <p><b>electronic (1)</b> 188:15</p> <p><b>eleven (2)</b> 25:6,7</p> <p><b>eleventh (1)</b> 187:19</p> <p><b>else (9)</b> 16:15;30:20;62:2, 25;85:6;88:2;127:10; 128:6;171:4</p> <p><b>e-mail (1)</b> 19:11</p> <p><b>emergency (3)</b> 84:14;85:4;128:8</p> <p><b>employed (1)</b> 114:12</p> <p><b>enclose (1)</b> 79:14</p> <p><b>encourage (1)</b> 134:5</p> <p><b>encouraging (1)</b> 134:7</p> <p><b>end (8)</b> 54:4;94:25;95:16; 98:19;102:6;139:18; 140:6;163:4</p> <p><b>endure (1)</b> 86:10</p> <p><b>energies (2)</b> 77:17;132:11</p> <p><b>Energy (52)</b> 5:15;7:12;41:21; 77:2,9,16,18,22; 78:10,16,21,23,23; 79:6,15,25;80:8,16, 24;81:2;83:1;84:13; 124:19;125:20; 131:14,23,25;132:1,4, 18;142:11;148:21; 149:1,5,20,24;150:15, 19;152:6;153:16; 168:18,20;180:23; 181:3,7,25;182:2,9, 14,24;183:2,6</p> <p><b>energy-efficient (1)</b> 149:9</p> <p><b>Energygov (1)</b> 101:8</p> <p><b>Energy's (1)</b> 96:24</p> <p><b>energy-saving (1)</b> 131:11</p> <p><b>engineer (4)</b> 47:7;60:1;76:3; 139:10</p> <p><b>engineering (3)</b></p>	<p>12:19;14:20;51:8</p> <p><b>engineers (1)</b> 50:6</p> <p><b>England (2)</b> 177:23;179:18</p> <p><b>England's (2)</b> 87:14;109:4</p> <p><b>enhanced (1)</b> 117:14</p> <p><b>enlarge (1)</b> 141:10</p> <p><b>enough (7)</b> 21:18;42:17;48:3; 80:21,23,23;160:13</p> <p><b>ensure (2)</b> 98:20;99:9</p> <p><b>ensuring (1)</b> 46:11</p> <p><b>entirely (1)</b> 94:9</p> <p><b>entities (1)</b> 131:20</p> <p><b>entity (1)</b> 106:22</p> <p><b>environment (7)</b> 26:19,21,22,23; 107:10,11;154:24</p> <p><b>environmental (17)</b> 5:16;22:25;25:8,17; 26:1;31:11;36:18,23; 37:6,19,21;52:2;53:8; 56:22;57:2;58:24; 59:7</p> <p><b>EPA (1)</b> 22:25</p> <p><b>equal (3)</b> 98:21;99:16,22</p> <p><b>equally (1)</b> 13:7</p> <p><b>equate (1)</b> 57:1</p> <p><b>equipment (10)</b> 18:7;20:10,24;21:1; 29:3,22;51:1;73:6; 109:3;132:15</p> <p><b>equivalent (1)</b> 58:1</p> <p><b>erosion (1)</b> 29:25</p> <p><b>ESQ (1)</b> 4:13</p> <p><b>essence (1)</b> 138:19</p> <p><b>essential (1)</b> 103:8</p> <p><b>essentially (1)</b> 113:18</p> <p><b>established (4)</b> 54:12;61:21;83:1,5</p> <p><b>ESTATE (2)</b> 4:9;148:11</p> <p><b>et (2)</b> 152:24;154:19</p>	<p><b>Europe (1)</b> 73:19</p> <p><b>evaluations (2)</b> 94:11;95:6</p> <p><b>even (23)</b> 23:3;24:8;47:6; 60:12;70:10;72:20, 20;75:3,6,9;80:11; 149:25;150:21; 151:13;153:1,10,21; 154:9;167:6,11; 173:25;186:6;188:1</p> <p><b>event (3)</b> 128:8,8,12</p> <p><b>events (10)</b> 64:15,16;66:5,12; 69:2,25;74:8;88:13; 117:3;162:23</p> <p><b>Eversource (65)</b> 5:15;7:12;12:7; 13:16;14:3,7;19:4; 21:7,16;23:11,23; 24:11,24;25:19;36:4; 40:5;46:23;47:2,5; 48:21;54:9;56:21; 58:19,25;63:14; 65:15,24;66:3,7,24; 67:5;85:9;87:8;88:12; 89:2;96:24;99:4,6; 108:10,22;109:23; 111:8;113:1;115:11; 117:18;119:25; 123:10;124:4;126:15, 21;128:1;136:14; 140:21;146:10; 147:24;164:7;165:13; 168:18,20;171:12,15; 177:18;179:7;186:20; 189:17</p> <p><b>Eversource's (12)</b> 15:17;81:19;87:11; 100:14;101:22; 102:14;109:3;115:17; 123:12;151:23;162:2; 170:15</p> <p><b>everybody (1)</b> 188:16</p> <p><b>everyone (3)</b> 172:7;188:8,19</p> <p><b>evidence (6)</b> 14:10,11;15:6; 87:13;106:20;170:10</p> <p><b>evidentiary (1)</b> 190:4</p> <p><b>eviron (1)</b> 44:1</p> <p><b>evolution (1)</b> 39:19</p> <p><b>evolve (1)</b> 76:15</p> <p><b>exact (3)</b> 31:2;125:20;133:2</p> <p><b>exactly (6)</b></p>	<p>24:22;27:16;30:13, 19;32:20;139:11</p> <p><b>examination (1)</b> 147:19</p> <p><b>examined (3)</b> 9:10;147:21;168:14</p> <p><b>example (13)</b> 24:6;73:20;79:2; 83:10;113:4;121:18; 126:16;129:12;132:4; 145:2;150:10,16; 151:4</p> <p><b>exceed (1)</b> 130:3</p> <p><b>exceeded (1)</b> 104:9</p> <p><b>exceeds (1)</b> 110:9</p> <p><b>exception (3)</b> 31:12;163:8;191:5</p> <p><b>excerpt (3)</b> 174:9,19;175:12</p> <p><b>excerpted (1)</b> 175:19</p> <p><b>excess (2)</b> 138:13,14</p> <p><b>excessive (1)</b> 30:12</p> <p><b>excluding (1)</b> 171:13</p> <p><b>excuse (6)</b> 29:13;34:16;62:3; 80:25;158:12;175:4</p> <p><b>excused (1)</b> 191:18</p> <p><b>Executive (1)</b> 9:10</p> <p><b>exhausted (1)</b> 74:10</p> <p><b>Exhibit (11)</b> 11:16;12:7;14:25; 18:12,13;36:5;63:8; 99:25;168:17,19; 169:20</p> <p><b>exhibits (26)</b> 9:13,16,19,24;10:9, 18;11:2,7,20;12:1,2,5; 13:15;16:23;101:23; 165:13;168:3,17,20, 24;169:9,15;170:10, 11;171:7;190:12</p> <p><b>existing (7)</b> 5:23;20:10;57:11; 141:14;157:5;162:25; 189:7</p> <p><b>exists (2)</b> 75:8;121:12</p> <p><b>expand (2)</b> 21:7;22:2</p> <p><b>expanding (1)</b> 154:11</p> <p><b>expansion (2)</b> 21:11;89:1</p>
--	---	--	--	---

<b>expect (2)</b> 75:2;163:15	12	<b>fed (4)</b> 136:12;142:24; 172:24;173:5	154:15;161:18; 170:18,19;188:17	<b>floor (1)</b> 18:22
<b>expectancy (1)</b> 92:18	<b>face (1)</b> 15:1	<b>federal (1)</b> 181:14	<b>finally (3)</b> 56:4;59:10;75:13	<b>floorplan (3)</b> 18:18;20:9;109:8
<b>expectation (1)</b> 131:6	<b>facilities (8)</b> 13:4;47:22;51:6; 83:13,17,18;84:7; 115:15	<b>feed (3)</b> 71:13;137:1;138:6	<b>find (8)</b> 50:23;51:25;52:3; 94:5,23;98:5;134:13; 164:17	<b>flow (2)</b> 73:1;113:7
<b>expecting (1)</b> 89:1	<b>facility (4)</b> 84:5,6;144:22; 158:16	<b>feeder (2)</b> 71:13,15	<b>finding (1)</b> 150:4	<b>fluid (5)</b> 26:11;27:12;28:1; 32:22;71:17
<b>expects (1)</b> 30:10	<b>fact (9)</b> 14:1;15:14;45:5; 64:21;82:14;104:20; 109:9;154:12;158:4	<b>feeders (7)</b> 13:8;110:17;135:4; 136:11,25;142:16,18	<b>finds (1)</b> 165:2	<b>FOIA (1)</b> 107:24
<b>expense (3)</b> 115:16,17;163:14	<b>factories (2)</b> 140:3,5	<b>feeds (1)</b> 63:21	<b>fine (7)</b> 16:16;45:12; 106:13;130:21;167:9; 187:24;189:22	<b>folks (3)</b> 106:15;133:21; 134:8
<b>experience (6)</b> 13:2;59:25;76:7; 86:23;101:6;187:12	<b>factors (2)</b> 79:5;182:6	<b>feel (10)</b> 12:20;28:13;33:25; 38:12;51:24;52:16; 163:2,11,21;164:20	<b>finish (2)</b> 73:16;186:6	<b>follow (4)</b> 19:1;37:15;38:15; 62:10
<b>experienced (4)</b> 76:1;130:9,14,17	<b>failing (2)</b> 140:15,19	<b>feels (1)</b> 141:5	<b>fire (4)</b> 145:4,10,12;159:8	<b>following (1)</b> 112:15
<b>expert (10)</b> 8:2;12:13;13:24,25; 14:9,17,20;16:10; 71:6;123:5	<b>failure (4)</b> 71:15,23;72:2; 92:14	<b>feet (8)</b> 58:11,20;60:12; 166:25;167:5,7,10,12	<b>fires (1)</b> 145:11	<b>follows (2)</b> 9:11;168:15
<b>expertise (8)</b> 7:16,17,25;12:14, 19;14:15;16:4;72:16	<b>fair (11)</b> 43:5,7,8;45:7; 46:13,15;48:3;49:11; 53:4;185:22;188:8	<b>Ferrari (4)</b> 49:7,8,13,15	<b>firewalls (1)</b> 145:8	<b>follow-up (4)</b> 17:21;20:5;38:23; 164:2
<b>experts (3)</b> 15:24;41:21;100:24	<b>Fairfield (2)</b> 44:15;90:4	<b>few (11)</b> 53:16;64:6,8;76:9; 84:7;86:4;108:12; 148:17;173:6;175:1; 186:3	<b>FIRM (1)</b> 4:4	<b>forbidden (1)</b> 107:2
<b>explain (10)</b> 15:8;53:21;62:14; 87:15;88:11;90:12, 19;92:3;106:25; 125:12	<b>fairly (3)</b> 46:9;76:18;133:23	<b>FIELD (8)</b> 4:9;55:14,18,19; 148:11;157:23;158:5, 19	<b>first (24)</b> 6:9;9:9;12:9;19:24; 40:5;44:12;53:1,19; 54:4,14;65:23;68:12; 84:2;85:20;89:17; 96:23;104:10;126:20; 155:2,11;165:25; 170:14;180:6;187:13	<b>force (15)</b> 55:6,10,11;56:17, 24;57:6,6,15;58:3,15; 59:1,4,15;63:14,15
<b>explained (3)</b> 54:25;88:20;90:17	<b>faith (2)</b> 42:14;54:11	<b>file (4)</b> 19:18;41:6;107:8; 191:10	<b>fiscal (6)</b> 103:16,25;104:10, 14,23,24	<b>forced (1)</b> 90:25
<b>explore (1)</b> 27:11	<b>fall (1)</b> 66:16	<b>filed (8)</b> 13:16;42:2,22; 107:10;126:8,17; 165:13;191:12	<b>fit (10)</b> 18:20,25;20:19; 109:11;110:14; 121:21,25;122:2,4; 140:24	<b>forecast (23)</b> 48:8;75:4,10;87:11, 14;129:25;170:17; 174:6,6,7,8;176:5; 177:10,16,17,17,23; 179:8,9,23;181:22; 182:24;183:1
<b>expressed (1)</b> 39:15	<b>familiar (9)</b> 13:7;24:20;46:10; 103:16,20;133:17; 150:17;181:16,18	<b>figures (6)</b> 43:10;105:24; 106:1;158:1;171:17; 185:14	<b>five (11)</b> 58:12;64:18;70:9, 11;71:20;72:8; 116:16;151:5;161:5; 184:21;191:6	<b>forecasting (9)</b> 44:21;54:20;74:12, 23;85:23;87:23;88:6, 13;140:16
<b>extend (2)</b> 154:11;166:8	<b>fantastic (1)</b> 188:11	<b>filings (2)</b> 102:6;107:17	<b>five-day (1)</b> 130:15	<b>forecasts (2)</b> 74:24;178:24
<b>extended (2)</b> 165:6;166:14	<b>far (21)</b> 19:20;24:25;35:1; 37:4,18;39:16;47:19; 52:13;61:2;71:17; 81:11;125:15;126:4; 129:9,21;130:24; 133:9,10;154:18; 167:2;173:14	<b>filling (1)</b> 145:5	<b>fixes (1)</b> 111:8	<b>forefront (1)</b> 79:7
<b>extending (2)</b> 5:21;166:5	<b>fault (1)</b> 172:23	<b>final (5)</b> 26:11;27:12;28:1; 32:22	<b>fixing (1)</b> 49:21	<b>forest (2)</b> 26:5;33:20
<b>extension (1)</b> 167:3	<b>favor (5)</b> 35:14;60:8;118:6; 127:2;143:25	<b>filled (4)</b> 26:11;27:12;28:1; 32:22	<b>flat (4)</b> 20:12,16,17;30:18	<b>forget (2)</b> 69:20;141:2
<b>extensive (1)</b> 13:12	<b>favoring (1)</b> 34:12	<b>fillings (2)</b> 115:2;185:21	<b>fleet (2)</b> 133:3,4	<b>form (3)</b> 144:8;155:8;156:2
<b>extent (5)</b> 13:15;128:16; 131:11;142:2,3	<b>feasible (1)</b> 27:10	<b>filling (1)</b> 145:5	<b>flip (1)</b> 17:1	<b>former (1)</b> 46:6
<b>extinguisher (1)</b> 145:12	<b>February (5)</b> 5:4;64:18;168:19, 21;185:21	<b>final (5)</b> 154:15;161:18; 170:18,19;188:17	<b>flood (3)</b> 73:21,21;74:3	<b>forth (4)</b> 24:14;48:23;49:23; 60:10
<b>extra (1)</b> 82:6			<b>flooding (1)</b> 73:24	<b>forthcoming (1)</b> 127:19
<b>extreme (2)</b> 69:2,25				<b>forward (8)</b> 39:20;54:24;84:22; 139:23;152:12;
<b>F</b>				
<b>FA (3)</b> 90:24;91:1;92:9				
<b>FA-2 (4)</b> 90:25;91:14;92:10,				

156:23;182:3,14 <b>found (6)</b> 26:9;30:21;39:5; 80:2,2;101:9 <b>foundation (2)</b> 7:16;12:20 <b>foundations (1)</b> 109:15 <b>four (7)</b> 12:9;17:4;58:12; 68:19;83:12;153:22; 171:25 <b>fourth (2)</b> 135:13,15 <b>framework (1)</b> 45:15 <b>Franklin (1)</b> 190:6 <b>frankly (8)</b> 25:1;39:4,17;40:2; 41:15;42:3;90:4; 128:21 <b>Freedom (2)</b> 102:18,25 <b>frequently (1)</b> 105:19 <b>freshwater (1)</b> 26:22 <b>front (7)</b> 24:19;34:9;97:2; 104:17,18;116:25; 158:1 <b>fruitful (1)</b> 147:21 <b>fruition (1)</b> 45:19 <b>fuel (4)</b> 152:25;153:12; 159:20,24 <b>full (5)</b> 12:2;57:18,18; 100:13;170:10 <b>full-blown (1)</b> 138:1 <b>fully (1)</b> 112:15 <b>fund (2)</b> 84:3;132:20 <b>funding (2)</b> 84:23;149:8 <b>furnished (1)</b> 109:1 <b>further (10)</b> 15:20;38:2;52:16; 118:23;119:1;120:2; 142:1;147:15;158:2; 167:16 <b>future (6)</b> 61:24,25;103:5,8; 181:8;183:9	<b>Gagnon (6)</b> 168:8,23;169:1,6, 12,17 <b>gain (1)</b> 15:20 <b>game (2)</b> 40:20;71:6 <b>Gardell (6)</b> 168:8,23;169:2,7, 13,18 <b>gas (2)</b> 84:9;144:22 <b>gather (1)</b> 37:16 <b>gave (2)</b> 67:7;145:17 <b>geared (1)</b> 164:13 <b>General (8)</b> 5:13;35:3,25;46:15; 74:12;121:24;171:19; 173:11 <b>generalities (1)</b> 140:12 <b>generally (6)</b> 16:7;103:15;105:5; 125:10;150:5;191:4 <b>generated (1)</b> 81:21 <b>generator (1)</b> 65:17 <b>generators (1)</b> 84:9 <b>generic (3)</b> 19:10;20:17;137:25 <b>gentleman (1)</b> 188:24 <b>gentlemen (1)</b> 5:2 <b>geothermal (2)</b> 132:12;150:7 <b>gets (1)</b> 38:17 <b>gist (1)</b> 40:16 <b>given (9)</b> 17:12;105:9;122:9, 13,14;126:10,10; 135:7;152:10 <b>gives (1)</b> 75:19 <b>giving (1)</b> 185:7 <b>glad (2)</b> 61:19;188:22 <b>Glass (2)</b> 6:22;160:23 <b>Glenville (1)</b> 132:5 <b>goal (7)</b> 41:20;86:11,13,14, 19;132:24;133:6 <b>goals (1)</b>	89:7 <b>goes (21)</b> 25:21;33:8,10;55:6, 21,25;56:2,3,8;58:16; 62:5,9,16;63:17,21; 96:3;109:25;143:22, 22;146:22;158:5 <b>gold (1)</b> 149:17 <b>Good (24)</b> 5:1;7:9;8:17;28:14; 32:24;34:3;39:11; 42:14,20,24;52:9; 76:19;78:16;98:11; 108:11;120:14,18; 148:13;162:13; 163:14,20;164:21; 172:6;191:1 <b>goodness (1)</b> 50:17 <b>government (2)</b> 155:9;156:3 <b>grabs (1)</b> 38:5 <b>grace (1)</b> 162:19 <b>grandchildren (1)</b> 76:12 <b>Granoff (3)</b> 6:17;150:12;160:19 <b>grant (1)</b> 71:3 <b>granted (1)</b> 170:15 <b>grassed (1)</b> 55:23 <b>gravity (3)</b> 56:4;63:19,20 <b>great (7)</b> 44:6,14;50:8;82:21; 154:16;158:24; 186:13 <b>greater (1)</b> 150:7 <b>greatly (1)</b> 53:9 <b>Green (4)</b> 149:7;150:24; 151:6,7 <b>Greenwich (104)</b> 5:9,20,24;6:5,21; 8:13,20;12:5,8,10; 21:6;27:6;42:10;43:4, 21;44:3,3,12;46:17; 55:5,10,11,13;64:13; 66:21;67:18,21; 70:21;76:8,17;79:11; 81:11;82:1,5,7;83:1, 19;85:1;86:22;88:7, 10,25;89:7,12,20; 90:7,8;93:14;95:18, 18;96:17,18;97:11,15, 24;102:17;103:4;	106:23;107:23; 111:21,23;113:15; 114:2,3;119:4; 120:19;123:25; 124:15;127:15; 130:22;131:12,14; 138:6,11,12;139:2; 142:1,7,8,24;143:5, 25;146:22;147:6,9; 151:4;160:4;162:24; 163:3;165:19;166:19; 171:25;172:11,12,17, 21,24;173:3,14;174:7, 8;182:12;183:21; 191:12 <b>grid (3)</b> 149:21;153:6;160:6 <b>gross (8)</b> 176:9,9,10;179:23; 180:7,11,21;183:4 <b>ground (3)</b> 20:11,14;163:8 <b>groundwater (1)</b> 7:18 <b>group (1)</b> 80:19 <b>grouped (3)</b> 6:20,23;160:21 <b>grow (3)</b> 44:9,14;45:17 <b>grown (1)</b> 130:23 <b>growth (31)</b> 43:24;45:4;46:17, 20,21;47:9;76:1,14; 87:12,12;88:25; 89:10;121:5;123:24; 124:15;130:25;131:6; 139:1,9,21;141:11,18; 155:3;160:7;177:4,7; 178:4,12;179:4,25; 180:1 <b>guaranteed (1)</b> 46:11 <b>guess (19)</b> 20:8;28:17;29:12; 33:17;35:5;48:1;55:7; 57:8;64:10,18;68:12, 24;72:14;75:23;76:7; 91:25;119:17;151:14; 187:20 <b>guide (1)</b> 79:4 <b>guys (3)</b> 51:10;69:13;188:23	<b>hand (1)</b> 175:25 <b>handle (4)</b> 26:21;50:21;57:17; 92:7 <b>handling (2)</b> 30:1;82:5 <b>hands (2)</b> 24:14;66:20 <b>handy (1)</b> 130:12 <b>handy-dandy (1)</b> 47:5 <b>Hannon (24)</b> 20:4,6,21;53:11,13, 15,25;54:4;55:2;56:7, 14;58:3,8,14;60:19; 61:1,6;62:1,10,15; 135:18;164:2,4,8 <b>happen (8)</b> 66:4;67:25;69:17; 70:1,1;73:3;74:9; 114:11 <b>happened (8)</b> 69:7,11,18,24;70:8; 96:5,11;145:18 <b>happening (9)</b> 71:2,9,18;78:24; 79:22,24;81:3;88:24; 139:1 <b>happens (7)</b> 26:20;60:14;65:10, 19;67:15,20;82:1 <b>happenstance (1)</b> 71:12 <b>happy (2)</b> 90:17;113:1 <b>Harbor (2)</b> 55:21;153:4 <b>hard (4)</b> 62:13;65:24;79:25; 139:7 <b>hardening (2)</b> 65:8;116:18 <b>Hartford (1)</b> 83:15 <b>hash (1)</b> 44:19 <b>hazardous (1)</b> 164:18 <b>heads (1)</b> 55:22 <b>health (1)</b> 113:8 <b>hear (2)</b> 74:11;127:9 <b>heard (7)</b> 19:4,20;40:1;50:3; 76:16;127:4;129:8 <b>hearing (28)</b> 5:8;6:3,9;14;17:10; 33:17;80:20;81:23; 85:13;126:11;127:10;
<b>G</b>			<b>H</b>	
			<b>half (1)</b> 49:17 <b>Hall (6)</b> 6:5;49:24;83:17; 84:6;147:2,8	

<p>133:8;161:15;163:18; 168:17;171:6;185:19; 186:11;187:17,21; 188:18;189:19,21; 190:5,8,9;191:4,12,15</p> <p><b>hearings (3)</b> 5:9;51:16;191:6</p> <p><b>hearsay (2)</b> 13:14;76:17</p> <p><b>heat (3)</b> 69:7;130:16;132:11</p> <p><b>heating (1)</b> 132:12</p> <p><b>heatwave (1)</b> 69:11</p> <p><b>heavily (3)</b> 145:2;146:4;166:19</p> <p><b>height (4)</b> 35:19;37:20;38:18; 111:23</p> <p><b>heights (2)</b> 169:20,23</p> <p><b>held (3)</b> 5:9,12;85:25</p> <p><b>help (9)</b> 67:5;101:12; 111:20;113:8,24; 146:13,17;167:7; 174:7</p> <p><b>helped (1)</b> 113:6</p> <p><b>helpful (3)</b> 16:14;19:7;116:13</p> <p><b>helps (2)</b> 51:9;52:23</p> <p><b>hereby (1)</b> 191:14</p> <p><b>here's (5)</b> 20:12,17;30:5;49:6, 7</p> <p><b>high (3)</b> 143:12;151:6; 166:25</p> <p><b>higher (7)</b> 76:22;80:11;96:7; 98:8,14;112:7;178:24</p> <p><b>highest (1)</b> 104:24</p> <p><b>highlighted (1)</b> 174:24</p> <p><b>highlighting (2)</b> 175:21;176:2</p> <p><b>highly (1)</b> 125:6</p> <p><b>high-pressure (3)</b> 26:10;27:12;32:21</p> <p><b>hill (1)</b> 33:4</p> <p><b>himself (1)</b> 54:14</p> <p><b>hired (1)</b> 42:2</p> <p><b>historic (1)</b></p>	<p>44:5</p> <p><b>historically (1)</b> 71:16</p> <p><b>history (2)</b> 81:12;182:5</p> <p><b>hit (1)</b> 158:7</p> <p><b>hitting (1)</b> 164:21</p> <p><b>hmm (1)</b> 51:5</p> <p><b>hold (5)</b> 58:9;91:18;123:11, 20;161:6</p> <p><b>holding (2)</b> 133:19,20</p> <p><b>home (8)</b> 79:4,6,6;80:7; 105:20;150:5,11; 191:16</p> <p><b>homeowners (1)</b> 78:22</p> <p><b>homes (6)</b> 76:15,17;79:23; 163:4;173:15;174:1</p> <p><b>Honda (3)</b> 49:7,14,17</p> <p><b>honestly (1)</b> 59:4</p> <p><b>hook (1)</b> 20:25</p> <p><b>hope (4)</b> 41:13;50:15;74:24; 75:18</p> <p><b>hoped (2)</b> 15:23;19:25</p> <p><b>Hopefully (2)</b> 190:1,23</p> <p><b>hoping (3)</b> 18:6;166:8,12</p> <p><b>horizontal (11)</b> 25:11,20,24;26:8; 35:20;58:18;60:20; 61:3,10;155:8;156:2</p> <p><b>hospital (1)</b> 153:4</p> <p><b>hot (6)</b> 47:21;70:11,23; 71:20;72:8,20</p> <p><b>Hotel (1)</b> 159:21</p> <p><b>hotter (2)</b> 70:10;94:24</p> <p><b>hottest (1)</b> 69:12</p> <p><b>hour (4)</b> 93:7,14;183:24; 187:19</p> <p><b>hours (1)</b> 97:10</p> <p><b>house (5)</b> 62:23;63:22; 153:15,15,20</p>	<p><b>houses (2)</b> 153:11;154:10</p> <p><b>housing (2)</b> 79:12;153:7</p> <p><b>HPFF (1)</b> 59:21</p> <p><b>huge (1)</b> 153:4</p> <p><b>human (1)</b> 49:21</p> <p><b>hundred (5)</b> 75:9;92:12;104:9; 121:14;167:7</p> <p><b>hundred-year (2)</b> 69:18;73:21</p> <p><b>hung (1)</b> 77:24</p> <p><b>Hurricane (1)</b> 72:25</p> <p><b>Hyatt (1)</b> 159:20</p> <p><b>hybrid (3)</b> 117:23;118:7,13</p> <p><b>hybrids (1)</b> 133:4</p> <p><b>hypothetical (1)</b> 92:16</p>	<p>86:8</p> <p><b>implement (1)</b> 112:20</p> <p><b>implementation (3)</b> 13:11;155:12,19</p> <p><b>implemented (1)</b> 172:23</p> <p><b>implementing (1)</b> 152:24</p> <p><b>important (2)</b> 103:3;158:15</p> <p><b>importantly (1)</b> 78:20</p> <p><b>impossible (1)</b> 57:1</p> <p><b>improper (1)</b> 48:23</p> <p><b>improperly (1)</b> 49:9</p> <p><b>improve (6)</b> 111:21;117:15; 128:6;129:9,11; 143:17</p> <p><b>improved (3)</b> 114:2;115:4;181:15</p> <p><b>improvements (5)</b> 5:25;127:13;143:9; 150:18,22</p> <p><b>incident (1)</b> 68:22</p> <p><b>include (6)</b> 19:3;20:24;152:5; 181:2,3,24</p> <p><b>included (6)</b> 96:25;108:14; 151:5;182:6,14,23</p> <p><b>including (5)</b> 36:9;101:23,24; 116:4;184:19</p> <p><b>inconsistent (1)</b> 107:17</p> <p><b>inconvenience (2)</b> 86:9,23</p> <p><b>incorporate (1)</b> 72:17</p> <p><b>incorporated (1)</b> 72:19</p> <p><b>increase (22)</b> 81:18;91:15; 103:25;104:23; 111:23;114:9;117:18; 119:8;121:13;128:23; 131:6;138:20;149:25; 172:20;173:17;177:6; 181:7;182:5,17; 183:7,9;184:2</p> <p><b>increased (9)</b> 74:24;81:17; 124:10,25;133:21; 152:8,11;174:2; 178:21</p> <p><b>increases (3)</b> 74:23;125:15;154:9</p>	<p><b>increasing (4)</b> 124:22;151:19; 153:1,2</p> <p><b>incrementally (1)</b> 153:25</p> <p><b>incumbent (1)</b> 69:3</p> <p><b>independent (2)</b> 122:19,25</p> <p><b>Indian (4)</b> 55:14,18,18,21</p> <p><b>indicate (6)</b> 86:6;87:10;88:5; 90:1;94:7;95:15</p> <p><b>indicated (7)</b> 14:5;92:8;113:10, 24;115:3;131:9;143:8</p> <p><b>indicates (2)</b> 92:12;116:17</p> <p><b>individual (1)</b> 135:4</p> <p><b>individually (1)</b> 42:9</p> <p><b>individuals (2)</b> 42:9;54:13</p> <p><b>industrial (3)</b> 124:8,25;125:6</p> <p><b>industry (9)</b> 13:1,10,13;27:7; 100:1,4,9,13;101:5</p> <p><b>influenced (1)</b> 88:7</p> <p><b>information (36)</b> 7:15;15:11,16,18, 20,22;17:14;19:16; 20:3;21:15,19;51:4; 63:14;78:4;90:14; 95:9;97:9;100:22; 102:18,25;107:12; 122:19;126:9,23; 130:12;135:7;137:7; 147:15;167:24;169:9; 171:22;185:6,23; 187:6;189:6,7</p> <p><b>informational (1)</b> 136:15</p> <p><b>informed (1)</b> 85:14</p> <p><b>infrastructure (6)</b> 38:21;61:15; 112:25;129:16,18; 141:11</p> <p><b>initial (1)</b> 156:6</p> <p><b>initiative (1)</b> 151:3</p> <p><b>inoperable (2)</b> 70:18;110:11</p> <p><b>input (2)</b> 12:25;100:1</p> <p><b>inquired (2)</b> 126:7,14</p> <p><b>inquiry (1)</b></p>
		<b>I</b>		
		<p><b>I-95 (2)</b> 55:19;147:7</p> <p><b>idea (3)</b> 45:23;58:8;149:19</p> <p><b>ideal (1)</b> 148:8</p> <p><b>ideally (1)</b> 147:19</p> <p><b>identification (1)</b> 9:13</p> <p><b>identified (3)</b> 47:18;82:24;100:4</p> <p><b>IECC (2)</b> 79:3;80:10</p> <p><b>ignore (1)</b> 14:15</p> <p><b>ignored (1)</b> 97:13</p> <p><b>image (1)</b> 63:13</p> <p><b>imagine (1)</b> 131:7</p> <p><b>immediate (2)</b> 29:2,9</p> <p><b>impact (13)</b> 26:1;27:20;28:2; 30:17,20;31:11; 56:22;57:15;59:6,7; 61:12;93:15;144:6</p> <p><b>impacts (6)</b> 21:20;28:2;36:18, 23;61:14;99:9</p> <p><b>imparting (1)</b></p>		

<p>51:25 <b>inside (1)</b> 20:25 <b>inspection (3)</b> 103:18,21;106:2 <b>install (3)</b> 28:20;29:16;122:13 <b>installations (1)</b> 133:19 <b>installed (2)</b> 32:11;133:16 <b>installing (1)</b> 132:3 <b>instance (1)</b> 29:11 <b>instances (2)</b> 45:8;93:3 <b>instead (2)</b> 157:15;166:12 <b>Institute (1)</b> 78:2 <b>instituted (1)</b> 164:15 <b>integrated (1)</b> 161:18 <b>intelligent (2)</b> 23:14;75:21 <b>intended (3)</b> 14:12;148:16; 187:19 <b>interesting (2)</b> 59:3;80:9 <b>interim (1)</b> 147:22 <b>internal (1)</b> 123:1 <b>internally (1)</b> 77:14 <b>Internet (3)</b> 19:13;101:8;106:12 <b>interrogatory (1)</b> 168:18 <b>interrogatories (6)</b> 17:3;53:17;91:4; 94:20;101:24;182:7 <b>interrogatory (5)</b> 12:17;18:4;109:19; 116:12;118:15 <b>interrupt (1)</b> 92:21 <b>intersection (10)</b> 56:5;119:4,11; 165:16,17,19;166:16, 18;167:10,13 <b>intersections (1)</b> 166:19 <b>intersession (1)</b> 119:6 <b>Interstate (1)</b> 34:14 <b>intervener (8)</b> 6:9,17;7:1;12:4; 41:6;42:2;64:11;</p>	<p>191:8 <b>intervenors (9)</b> 6:13,20,23;7:4,7; 16:20;160:22;188:14; 189:25 <b>into (33)</b> 14:10;18:20;20:9, 13;32:23,24;39:9; 49:24;63:21,23,23; 66:2;75:1;79:9;90:18, 20;114:7;119:19; 131:20;136:9;138:23; 140:24;145:15;146:6, 22;148:17;157:5,16; 163:4;170:10;180:22; 181:6,13 <b>introduced (1)</b> 106:20 <b>introduction (1)</b> 76:24 <b>investigation (2)</b> 101:21;102:9 <b>involved (5)</b> 27:15;29:8;38:17, 20;41:3 <b>Island (8)</b> 26:14,25;27:2; 32:15,18,23;170:21, 24 <b>ISO (11)</b> 87:14;88:17;109:4; 174:6,6;177:10,17,17, 22;179:18;181:12 <b>issue (34)</b> 19:23;30:14;35:16, 18;36:17;45:1;52:17; 53:1,1;64:16,24;65:4, 10,19;68:25;69:16; 71:25;73:10,14;82:9, 23;94:22;95:17; 107:23;110:23,24; 111:1,25;121:4; 129:5;135:11,21; 170:21;186:19 <b>issues (23)</b> 12:13,14,16,19; 16:2;22:1;32:7;36:23; 37:6;41:6;50:6;53:8; 61:23;66:4;76:13; 82:10;87:2;91:17; 100:2;128:24;129:4; 146:5;159:11 <b>items (5)</b> 147:13;170:12; 188:9;189:15,17</p>	<p><b>Jeopardy (1)</b> 70:21 <b>job (2)</b> 39:12;160:12 <b>Joel (1)</b> 6:22 <b>JOSEPH (1)</b> 4:13 <b>journey (1)</b> 39:15 <b>Julie (1)</b> 8:19 <b>July (2)</b> 83:11,11 <b>June (1)</b> 6:2 <b>jurisdiction (1)</b> 66:16</p>	<p>10:1,4,7,13,16,20,23; 11:1,5,9,12,15,18,22, 25;13:21,22;14:16, 19;15:13;19:17; 24:20;63:7;104:25; 116:11;123:11,14,20; 134:15;161:3,12,21; 162:10,18;164:11; 189:2</p>	<p>103:1 <b>layman's (1)</b> 45:2 <b>leading (2)</b> 117:3,8 <b>leak (7)</b> 32:12,15,18;58:22, 24;60:3;170:21 <b>leakage (1)</b> 27:4 <b>leaked (2)</b> 32:22,23 <b>leaking (1)</b> 59:23 <b>leaks (1)</b> 59:5 <b>learned (3)</b> 27:18;30:8;59:20 <b>learning (2)</b> 41:1,16 <b>least (10)</b> 19:4;41:9;46:5; 55:8;58:11;73:10; 74:7;76:16;138:2; 186:18 <b>leave (3)</b> 46:23;47:2;190:17 <b>leaving (1)</b> 61:24 <b>Lebanon (2)</b> 141:15;148:25 <b>LEED (4)</b> 125:18;134:5,8; 149:17 <b>left (4)</b> 8:15,23;98:21; 99:16 <b>legislation (3)</b> 22:15,17,19 <b>length (2)</b> 28:10;113:4 <b>lengthy (1)</b> 64:14 <b>less (11)</b> 33:18;37:22;71:17; 73:15;75:7;121:11; 136:12;149:20,20; 160:5;167:5 <b>letter (10)</b> 13:23;14:1,2,4; 99:17;100:3,15; 120:19,21,25 <b>level (5)</b> 80:11;121:24; 150:22;158:17; 181:18 <b>Levesque (2)</b> 64:1,2 <b>LFE-3 (4)</b> 34:17;118:1;165:8, 10 <b>Libertine (5)</b> 168:8;169:21,25;</p>
			<b>L</b>	
			<p><b>lack (2)</b> 152:11,22 <b>ladies (1)</b> 5:1 <b>land (12)</b> 21:10;22:11,14; 23:2,4,11;30:8;33:4; 43:24;82:17;88:24; 139:8 <b>lands (1)</b> 59:10 <b>land-use (3)</b> 47:9;87:22;139:1 <b>Lane (4)</b> 28:10;29:13;33:3; 93:13 <b>large (11)</b> 27:16;28:24;55:10; 61:11;76:18;105:11; 119:7;133:10;139:25; 140:5;158:23 <b>largely (1)</b> 119:13 <b>larger (9)</b> 21:3,8;30:9;76:20, 22;110:13;149:1; 173:20;174:1 <b>largest (3)</b> 70:18,22;78:9 <b>last (16)</b> 6:14,14;36:5;41:4; 47:15;51:16;52:18; 69:19;118:19;138:4; 140:1;160:14,16; 167:24,25;168:17 <b>lasting (1)</b> 23:22 <b>late (8)</b> 19:18;40:20;65:14; 67:14,18;101:24; 156:11;187:9 <b>Late-File (3)</b> 172:7;184:6,10 <b>Late-Filed (4)</b> 63:7;165:14; 168:20;169:21 <b>later (2)</b> 64:16;135:7 <b>LAW (1)</b> 4:4 <b>laws (1)</b></p>	
		<b>K</b>		
		<p><b>Katie (6)</b> 8:25;51:5;54:25; 61:13;85:12;150:3 <b>Katie's (1)</b> 42:12 <b>keep (2)</b> 61:18;163:24 <b>keeping (2)</b> 155:7;157:3 <b>keeps (1)</b> 84:13 <b>Ken (1)</b> 168:7 <b>kilowatt (2)</b> 97:10;183:24 <b>kind (17)</b> 27:4;28:19;33:7; 45:22;51:7;60:11,17; 61:15;75:2;77:24; 78:6;88:25;89:1,10; 135:16;149:2;156:23 <b>kinds (1)</b> 65:23 <b>Kinsman (3)</b> 28:10;29:12;33:3 <b>knew (2)</b> 106:23,25 <b>knowing (3)</b> 68:2;138:14;186:5 <b>knowledge (10)</b> 10:2,21;11:10,13;2; 86:8;101:6;127:13; 130:18,24;169:9 <b>knowledgeable (1)</b> 60:1 <b>known (4)</b> 41:17,17;42:1; 191:9 <b>knows (1)</b> 71:23 <b>KOHLER (41)</b> 8:17,19;9:12,18,22;</p>		
	<b>J</b>			
	<p><b>Jacqui (1)</b> 168:8 <b>January (6)</b> 5:11;64:11;85:13; 123:9,15,16</p>			

<p>170:4,7 <b>library (1)</b> 85:3 <b>life (2)</b> 60:3;92:18 <b>Light (4)</b> 7:11;74:4;87:13; 113:25 <b>lighting (2)</b> 132:15;133:3 <b>lightning (2)</b> 142:19,22 <b>likelihood (6)</b> 71:2,14,24,25;72:9; 73:2 <b>likely (2)</b> 7:20;153:21 <b>limit (1)</b> 93:7 <b>limited (1)</b> 31:16 <b>line (36)</b> 20:7;21:8;35:17; 38:1;57:12;60:10,15; 62:5,8,16;63:19,20; 67:13;68:8;88:22; 91:22;107:20;111:3, 6,11,16;112:1; 115:20;118:8;126:15; 127:2;135:22,23; 136:4;137:19,22; 140:17;143:20,21,22; 146:16 <b>lines (24)</b> 26:11;32:22;38:20; 39:7,24;50:12,18; 58:25;60:22;63:22; 64:21,25;65:11; 66:17;67:1;111:9; 127:1;128:9,24; 143:12,14;152:14; 164:19;183:19 <b>list (2)</b> 137:1;171:16 <b>listed (4)</b> 9:14;18:8;25:9; 103:24 <b>listing (2)</b> 136:11,24 <b>lists (2)</b> 45:10;177:13 <b>literally (1)</b> 162:10 <b>little (18)</b> 16:1;22:7;49:20; 57:9;58:21;59:20; 62:7;64:16;76:6; 77:24;78:6;120:17; 133:24;158:13; 167:12;178:21;184:5; 187:17 <b>live (3)</b> 90:9;153:22,23</p>	<p><b>load (33)</b> 43:3;44:18;47:21, 23;54:17;68:16,17, 23;77:5;81:21;82:23; 87:11,12;92:8,13; 94:8,11,23,25;95:7; 96:7,12;109:24; 137:1;138:20;153:16; 172:11,16;173:2,4,11, 20,21 <b>loaded (1)</b> 128:20 <b>loads (7)</b> 43:14;44:18;48:7; 51:3;135:5;136:12; 170:17 <b>localized (6)</b> 28:19,21,22,25; 29:18,19 <b>located (4)</b> 5:18,19;146:1; 147:6 <b>location (7)</b> 20:19;31:2,6;58:6; 63:4;145:23;150:11 <b>locations (1)</b> 112:24 <b>logistics (1)</b> 35:24 <b>long (19)</b> 23:22;26:13,25; 27:2,23,24;31:19; 32:15,18,23;41:9; 61:15;70:25;95:3; 145:19;162:15; 170:21,24;186:4 <b>longer (2)</b> 102:9;186:15 <b>long-range (1)</b> 103:5 <b>long-term (1)</b> 59:7 <b>look (47)</b> 17:7;18:21;21:14; 27:22,24;30:6;37:1; 44:17;45:3,4;47:13; 48:6,7,8,11,14,15; 49:12;57:6;67:13,14, 17;72:19;73:5;82:11; 83:5,8;84:21;85:2; 89:4,4;97:4;98:1,3; 105:16;109:10; 126:19;134:8;139:8; 173:18;176:4;177:10; 180:5;181:21;182:22; 184:20;186:23 <b>looked (16)</b> 30:25;44:17,18; 51:5,11,12;73:7;77:9; 78:8;101:7,7;123:7; 148:21,23;152:9; 153:15 <b>looking (52)</b></p>	<p>21:13;22:6;26:3,4, 10,15,16,17;28:5; 29:1;30:16,18;31:14; 32:24;36:22;50:23; 51:3;54:24;57:22; 63:2;67:25;74:23; 77:8,13,18;78:8;79:2; 83:6,8;84:1,2,24; 87:19;88:18;104:12, 12;132:3,12,18; 133:17;134:4;148:19; 149:5,13;151:22; 152:21;153:23; 180:19,21;183:13; 186:3;188:23 <b>looks (3)</b> 22:5;31:5;180:12 <b>lost (1)</b> 158:13 <b>lot (43)</b> 15:21;16:13;27:1, 22;28:2;29:8;30:3,8, 9;35:12,23;41:11; 43:14,24,24;60:6; 67:19;77:15;79:13, 22,23;80:4,6,24; 81:16,24,25;82:6,21; 105:14,15,18;137:24; 147:10;150:14;154:2; 155:9;156:12;157:10, 12;162:14;186:8; 191:6 <b>lots (1)</b> 155:15 <b>low (4)</b> 145:4;159:7; 184:18,19 <b>lower (5)</b> 73:25;94:25; 138:17;143:14; 149:24 <b>lowering (1)</b> 151:16 <b>lunch (1)</b> 108:4</p>	<p>129:17,20 <b>maintenance (4)</b> 5:17;13:3;67:20; 109:23 <b>major (16)</b> 84:15;134:13,21; 139:21;141:17,24; 144:25;145:21; 146:19,19,25,25; 151:6,6;155:3;158:23 <b>makes (1)</b> 74:12 <b>making (5)</b> 26:20;32:3;43:13; 69:23;160:13 <b>man (1)</b> 191:6 <b>manned (1)</b> 145:14 <b>manner (1)</b> 171:17 <b>manual (3)</b> 68:3;113:21;114:15 <b>manufacturer (1)</b> 109:10 <b>manufacturers (9)</b> 15:15;18:8,17; 20:23;93:20;94:2; 101:10;109:2;121:24 <b>many (17)</b> 23:22,25;24:11; 25:17;33:12;39:2; 40:15;45:8;52:8,8; 54:14,21;67:4;80:14; 82:15;128:25;155:23 <b>map (7)</b> 20:12,16,17;22:5,7; 62:24;82:2 <b>maps (1)</b> 31:1 <b>March (5)</b> 188:18;189:19,20; 190:7;191:1 <b>MARCUS (1)</b> 4:4 <b>MARGARET (2)</b> 4:14;172:5 <b>Marianne (1)</b> 7:10 <b>MARK (2)</b> 4:7;120:18 <b>marsh (1)</b> 26:17 <b>mass (1)</b> 74:22 <b>material (12)</b> 16:8;19:8;29:5; 32:22;37:17;59:6,19, 21;60:16;61:7,8; 188:17 <b>math (5)</b> 48:9;98:9,11; 129:24;130:2</p>	<p><b>matter (6)</b> 30:5;39:19;61:11; 76:19;106:14;128:6 <b>may (23)</b> 6:13;20:11,13,14; 47:6;48:22;58:21; 59:6;60:12;69:18; 76:22;82:16;94:7; 99:24;100:17;164:24; 175:1;176:14;179:10; 188:21;189:10,13; 191:9 <b>maybe (9)</b> 15:24;68:7;69:13; 74:2;76:16;93:14,15; 173:12;187:8 <b>mean (72)</b> 14:13;19:23;23:16; 28:18;36:18;41:15, 15,19;46:20;47:9; 53:21;54:7;56:16; 66:23;69:21;71:6; 72:2;73:4,5;76:15; 82:18;90:5,16;93:8; 96:2;99:8;105:17,24; 106:1,7,7;112:14; 114:6,24;115:19; 121:8;126:5,13,17; 128:12,18,19,21,24; 135:15;140:10,11; 142:2;143:8,11,22; 144:19,25;145:1,11, 12,20,23,24;146:4; 147:17,18;148:7; 150:21;152:16; 153:21,23;185:14; 186:15;187:5,8,22 <b>meaning (1)</b> 91:14 <b>means (7)</b> 54:23;131:19; 142:13;157:12,14; 163:9;167:24 <b>meant (1)</b> 154:24 <b>meantime (1)</b> 147:23 <b>measured (7)</b> 154:24;181:1,2,10, 24;182:22,22 <b>measures (1)</b> 152:6 <b>meat (1)</b> 20:1 <b>meet (2)</b> 136:14;137:7 <b>meeting (7)</b> 5:3;39:8,8;79:23; 100:17;155:23;190:5 <b>meetings (5)</b> 54:9,21;135:18; 149:16;154:17 <b>Meg (1)</b></p>
		<b>M</b>		
		<p><b>main (21)</b> 38:6;41:19;55:6,10, 11;56:17,24;57:6,6; 58:4,15;59:1,4,15; 62:24;63:15,15; 64:23;65:4;166:22; 167:13 <b>Maine (1)</b> 93:14 <b>mains (1)</b> 57:15 <b>maintain (1)</b> 33:19 <b>maintaining (4)</b> 26:18;47:12;</p>		

6:22 <b>megavolt (1)</b> 48:11 <b>megavolts (1)</b> 48:15 <b>members (8)</b> 8:18;46:6,6;120:15; 155:17,19;156:1; 188:22 <b>memorandum (1)</b> 185:20 <b>memory (1)</b> 58:17 <b>mention (3)</b> 47:6;50:3;157:11 <b>mentioned (19)</b> 28:16;32:10,15; 34:8;39:1;40:4;62:22; 91:24;108:15;114:19; 117:21;129:14;138:4; 150:16;170:21; 173:15;176:3;179:7; 184:2 <b>Mercier (37)</b> 16:24,25;17:11,19; 18:3,11;20:22;21:3, 22,25;22:8;25:4,5,16; 28:6,15;29:11;30:11, 25;31:4,22;32:9,14, 17;33:5,11;34:6,18; 35:5;36:3;37:8;62:21, 22;63:3,9,25;118:5 <b>metering (1)</b> 184:16 <b>meters (1)</b> 184:14 <b>method (1)</b> 71:11 <b>methodologies (1)</b> 13:10 <b>Metro-North (17)</b> 24:5;33:25;34:13, 24;35:2;36:1;37:1,4, 20;40:10;118:1,8; 126:15;141:7;147:25; 165:3;171:13 <b>Mianus (1)</b> 142:8 <b>microcosm (1)</b> 90:7 <b>microgrid (6)</b> 83:3,5,20;84:3,12, 25 <b>might (16)</b> 20:25;21:21;30:21; 31:6;32:25;39:12; 49:12;95:9;105:16; 116:13;126:19;128:8; 152:9;171:15;179:7; 189:9 <b>migration (1)</b> 26:17 <b>Mike (1)</b>	168:8 <b>mile (1)</b> 49:17 <b>miles (4)</b> 5:22;93:7,8,14 <b>million (9)</b> 66:9;71:4,8;104:22; 121:15;140:17; 143:16;157:19; 164:17 <b>mind (3)</b> 140:25;159:22; 160:1 <b>minimized (2)</b> 87:8;99:10 <b>minus (2)</b> 180:11;185:9 <b>minute (2)</b> 167:18;189:9 <b>minutes (1)</b> 161:5 <b>mirror (1)</b> 89:2 <b>mitigate (1)</b> 71:5 <b>mixed-use (1)</b> 157:16 <b>modifications (1)</b> 10:17 <b>modify (1)</b> 10:8 <b>moment (6)</b> 92:21;128:3; 130:12;150:25; 179:11;189:10 <b>months (3)</b> 31:24;51:17;148:3 <b>more (75)</b> 8:4;14:23;16:13,14; 20:1;27:18,18,25; 29:8;30:7;31:7;35:1; 36:2;42:6;44:24; 58:23;59:20;60:8,21; 66:21;72:15;73:14; 74:8;75:7,23,24; 76:13;77:18;78:20, 22;87:18,22;89:11, 17;90:25;91:13,19; 93:15;94:12;95:7; 97:14,23;103:19; 108:12;110:15;112:7, 11,13;114:25;116:19; 117:14;121:4,11; 133:15,16,25;135:22; 140:13;148:19;150:4, 4,7;153:5,5;154:4,4, 12;157:15;160:2,2; 181:5;186:8;189:9; 190:11,13 <b>Morgan (2)</b> 7:1;161:1 <b>morning (5)</b> 5:1;7:9;8:17;42:20,	21 <b>most (17)</b> 27:2;41:4;49:23; 51:25;59:5;65:12; 77:17,19;78:18,23; 79:22;83:12;118:24; 153:21;165:12; 166:19;188:3 <b>mostly (1)</b> 150:3 <b>mother (1)</b> 65:16 <b>mouth (1)</b> 151:15 <b>move (7)</b> 25:6;42:17;45:13; 84:21;94:7;106:14; 114:16 <b>moved (4)</b> 36:21;139:25; 156:23;167:7 <b>moving (6)</b> 78:13;87:9,25; 98:18;128:25;186:2 <b>much (20)</b> 25:21;31:11;35:3; 41:24;57:12;60:8; 70:4;74:13;85:6;86:9; 87:20;88:5;94:24; 99:4;103:21;113:5; 114:24;160:17;181:4; 186:15 <b>mud (1)</b> 61:7 <b>multilayered (1)</b> 155:20 <b>multimillion-dollar (1)</b> 164:12 <b>multiple (2)</b> 55:11;101:25 <b>municipal (4)</b> 23:18;40:14;102:6; 107:10 <b>municipalities (1)</b> 76:9 <b>municipality (3)</b> 42:5;107:14;133:9 <b>Murphy (12)</b> 37:12,13,25;38:4,9, 12,22;39:11,21; 41:10;42:5,16 <b>must (1)</b> 186:15 <b>MVA (20)</b> 17:12,14,15,24; 75:5,6,90;11;91:9; 92:13,13,16;110:9; 121:6,8,9;122:6; 129:25;130:1;152:15; 173:12 <b>MVAs (1)</b> 140:18	<b>N</b> <b>name (4)</b> 5:5;8:18;23:12; 47:6 <b>namely (1)</b> 135:12 <b>nameplate (3)</b> 92:12,17;93:4 <b>nameplates (1)</b> 92:9 <b>narrowed (1)</b> 158:6 <b>national (1)</b> 109:6 <b>natural (2)</b> 84:9;144:22 <b>nature (8)</b> 25:19;49:21;56:16; 59:12,22;129:13; 140:9;183:11 <b>near (2)</b> 55:23;144:22 <b>nearby (2)</b> 145:3,19 <b>necessarily (6)</b> 45:10;46:12;81:20; 82:18;100:24;177:9 <b>necessary (6)</b> 20:25;108:15; 112:20;123:2;127:6; 187:4 <b>need (62)</b> 5:17;12:14;26:6; 29:3;30:6,21;36:20; 38:2;40:15;44:19; 50:24,24,25;53:1,4, 12,20;54:6,12,20; 56:18;57:11;60:14; 61:20;65:15,16;68:7; 81:6,6;82:24;102:19; 107:7;110:24;111:1, 16;112:7;114:22; 116:8;120:25;121:2, 6,8;122:20;130:6,6; 138:16;140:19;141:5; 143:12;144:3;146:15; 148:5;152:10,21,22; 153:1;154:12,17; 165:2;175:15;188:25; 189:20 <b>needed (7)</b> 21:7;22:9;75:11; 111:9;115:25;129:25; 161:14 <b>needs (7)</b> 44:8;56:15;66:1; 81:8;84:2;136:15; 137:8 <b>negate (1)</b> 111:16 <b>negative (1)</b>	37:4 <b>negotiating (1)</b> 42:13 <b>neighborhood (1)</b> 73:12 <b>Nerve-racking (1)</b> 52:5 <b>net (3)</b> 176:6,7;179:23 <b>network (3)</b> 111:15;113:9;142:9 <b>New (61)</b> 5:11;23:9;24:8; 43:4;50:24;51:6;67:4; 71:13;79:3,13;80:7,7; 81:3;83:21;84:4; 87:14;91:21;104:8; 105:17,20;109:4; 113:14;114:3;121:13; 122:13;125:1;128:4, 22;129:20;132:9,10; 134:6;140:17,17; 141:14,14;142:2,13, 17,21,25;143:2,5; 144:1,6;146:2,2; 148:25;149:6;150:6; 152:23,25;154:19; 157:4;168:3,16; 177:23;179:18;185:6; 189:6;190:6 <b>newer (1)</b> 173:16 <b>newly (1)</b> 105:18 <b>news (1)</b> 168:1 <b>next (6)</b> 7:1;45:13;49:13; 88:4;120:4;148:10 <b>nextdoor (1)</b> 145:6 <b>nine (4)</b> 63:6,9;83:12;185:9 <b>nodding (1)</b> 65:5 <b>noise (1)</b> 28:3 <b>none (2)</b> 16:10;171:7 <b>Nonna (2)</b> 6:20;160:22 <b>non-storm (3)</b> 117:3,7;162:22 <b>normalized (1)</b> 177:18 <b>normally (2)</b> 172:24;173:5 <b>North (16)</b> 4:6;34:14;67:18,21; 113:4;138:6;142:7, 24;143:5;172:11,12, 17,21,24;173:3,14 <b>Northeast (3)</b>
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<p>13:5,12;48:22 <b>northern (1)</b> 35:18 <b>Northwest (4)</b> 82:4,6;138:10,12 <b>Norwalk (5)</b> 178:3,8,10,20; 179:25 <b>notation (4)</b> 106:25;107:5,16; 108:1 <b>note (6)</b> 8:8;82:3;139:18; 161:13;191:2,7 <b>noted (3)</b> 54:11;179:4;191:4 <b>notice (8)</b> 105:4;161:14; 170:12,16,19,22; 175:7,16 <b>noticed (1)</b> 162:1 <b>notices (1)</b> 175:24 <b>noticing (1)</b> 161:23 <b>notified (1)</b> 6:12 <b>November (13)</b> 5:10;12:11;13:23; 14:1,2,4;44:11;65:7; 86:5;94:21;102:12; 120:20;134:11 <b>noxious (1)</b> 59:22 <b>Number (31)</b> 5:7;10:11,11;12:8, 9;17:22;18:4,11;25:6, 7;36:19;47:17,20; 71:7;79:18;81:20,21; 95:21;104:4;134:16; 135:3;136:8,18; 139:7;147:13;153:24; 165:14;171:25;172:1; 183:4;189:15 <b>numbers (14)</b> 44:20;54:15,16,22, 24;98:8;151:23,24; 152:14,15,19;175:21; 185:19,23 <b>numeral (1)</b> 9:14 <b>Nutrition (1)</b> 6:21</p>	<p>90:12 <b>oaths (2)</b> 9:11;168:15 <b>object (8)</b> 7:13,23;12:4,7; 13:18;107:19;163:17; 185:18 <b>objected (1)</b> 99:24 <b>objecting (1)</b> 34:5 <b>objection (5)</b> 7:6,25;16:7;108:3; 161:23 <b>objections (4)</b> 8:4;16:19;161:25; 171:1 <b>objective (1)</b> 45:11 <b>observation (1)</b> 125:15 <b>obtained (1)</b> 12:25 <b>obtaining (1)</b> 100:1 <b>obviate (1)</b> 152:9 <b>obviously (22)</b> 19:22;35:16;36:5, 19;38:16;39:19;56:2; 64:8;68:24;89:6; 107:21;114:6,16,25; 122:17;133:15; 135:24;137:25; 144:15;146:9;151:22; 176:2 <b>OCC (6)</b> 19:24;68:14;135:9; 168:18;171:3,8 <b>OCC-20 (3)</b> 151:21,25;153:17 <b>OCC-22 (2)</b> 184:6,10 <b>OCC-30 (2)</b> 175:19;177:12 <b>OCC-38 (1)</b> 174:12 <b>OCC-62 (1)</b> 18:18 <b>OCC-64 (3)</b> 96:24;97:16;171:17 <b>OCC-79 (2)</b> 171:11,12 <b>OCC-80 (1)</b> 113:13 <b>occasion (1)</b> 57:15 <b>occasionally (1)</b> 162:15 <b>occur (1)</b> 87:2 <b>occurred (3)</b> 96:5;111:14;172:23</p>	<p><b>occurrence (2)</b> 71:5,17 <b>occurring (1)</b> 73:3 <b>occurs (3)</b> 47:22;59:9;87:3 <b>October (3)</b> 113:13,19;161:19 <b>off (11)</b> 24:7;27:24;81:13; 82:17;141:8;149:21; 160:6;163:10;175:19; 179:11,13 <b>offer (4)</b> 21:10;22:10;49:8; 131:19 <b>offered (3)</b> 15:9;94:8;171:13 <b>offers (1)</b> 9:12 <b>OFFICE (12)</b> 4:12;6:4;40:6; 120:5;126:21;140:5; 152:3;155:12;156:12; 167:22;172:6;191:13 <b>offices (1)</b> 190:5 <b>official (1)</b> 33:22 <b>offset (4)</b> 75:9;119:9;167:9, 12 <b>offsetting (1)</b> 122:6 <b>often (2)</b> 50:6;105:12 <b>oftentimes (1)</b> 50:23 <b>oil (2)</b> 90:24;91:12 <b>oil-immersed (2)</b> 93:20;94:1 <b>Old (6)</b> 55:5,10,13;157:6; 158:5;167:25 <b>older (4)</b> 64:21;79:12;150:5; 173:15 <b>once (9)</b> 26:9;32:11;60:21; 102:16;142:10; 145:22;148:1,3; 187:16 <b>one (94)</b> 14:23;18:4,5,7,11; 24:5;27:2;28:9,19; 29:12;30:7;33:9,12; 34:8;35:2,7,8,10,14; 36:19;41:7,12,22; 45:13,25,25;47:10,19; 49:15;52:18;54:13; 57:2,3;59:14,18; 66:15;67:18;70:18;</p>	<p>71:8,19;72:16;73:10; 74:7,20,25;75:23,23; 76:8;77:10;78:18; 80:1,19;83:10;84:15; 85:2;93:13;96:9; 103:3;104:20;107:23; 109:21;110:10;111:7; 122:8,10;123:20; 126:14;135:9,18; 140:15,16;144:19; 158:4;159:13,19,22; 160:1;162:5,10; 163:10;165:15,22; 166:18;177:13,19; 180:3,6;181:13; 186:10,18;188:17; 189:9,10;190:8 <b>one-in-a-million (1)</b> 71:12 <b>ones (6)</b> 35:1;64:3;173:16; 190:12,16,21 <b>ongoing (3)</b> 101:16;128:1; 184:16 <b>online (1)</b> 84:13 <b>only (23)</b> 24:13;27:6;29:1; 35:8;75:5;82:14;84:5, 13;96:17,17;104:20; 110:3,5;140:18; 142:11;151:17; 152:15;154:3;157:11; 159:19;173:21;175:8; 191:3 <b>onto (2)</b> 44:10;106:12 <b>open (4)</b> 28:9;31:9;33:8; 119:19 <b>operate (1)</b> 70:19 <b>operating (2)</b> 92:15;109:4 <b>operation (2)</b> 5:18;103:11 <b>operations (1)</b> 172:22 <b>opine (2)</b> 188:6;189:25 <b>opinion (3)</b> 8:1;97:22;128:7 <b>opportunity (9)</b> 6:14;131:19; 148:14;160:18; 167:25;185:12,22; 187:1;188:16 <b>opposed (3)</b> 91:20;95:3;111:17 <b>oppurtunity (1)</b> 162:5 <b>option (3)</b></p>	<p>24:9,17;28:14 <b>options (6)</b> 51:11;116:18,19, 20;137:18,19 <b>orange (1)</b> 33:6 <b>order (7)</b> 5:2;86:10;112:20; 113:8;125:8;171:16, 24 <b>organic (1)</b> 59:12 <b>organization (1)</b> 86:1 <b>original (1)</b> 71:11 <b>others (4)</b> 64:8;68:14,14; 111:2 <b>ours (1)</b> 180:9 <b>ourselves (2)</b> 24:15;128:15 <b>out (48)</b> 23:15;26:9;29:5; 36:16;40:1;44:2,22; 45:12;55:1;57:16,24; 59:9,23;61:19;62:4; 63:23;65:25;70:14, 22;71:19;72:9;75:16; 80:10;82:10;83:6,11; 84:16;94:5,23;98:5; 109:22,25;110:6; 120:17;121:5;135:25; 142:6;145:12;147:12; 167:13;174:16; 184:13,17;185:13; 186:14,19,22;187:9 <b>outage (2)</b> 113:25;172:18 <b>outages (7)</b> 64:14;113:12; 114:4;117:4,8,9; 130:9 <b>outcome (1)</b> 41:14 <b>outlined (4)</b> 37:2;57:20;86:20; 87:5 <b>outlining (1)</b> 89:2 <b>output (1)</b> 130:15 <b>outreach (2)</b> 77:11;131:16 <b>outside (1)</b> 186:3 <b>outsized (1)</b> 184:19 <b>outweighs (1)</b> 37:4 <b>over (26)</b> 23:22;24:3;33:4,4;</p>
<b>O</b>				
<p><b>OA (4)</b> 90:16,24;91:12; 92:9 <b>OA/FA (1)</b> 90:24 <b>OA/FA/FA-2 (1)</b></p>				



35:2,3,14;46:18; 51:13;53:2;54:9;57:7; 59:23;70:25;74:2,2; 76:14;93:3;103:25; 104:23;111:9;118:7; 146:16;164:15; 165:21;184:2	<b>paragraph (7)</b> 12:23;17:5,12; 19:14;53:19;54:5; 138:4	19:7,21;33:23;69:4; 77:19;78:9;81:24; 82:23;88:13;188:23	88:25;129:4;151:1; 157:1;173:11	165:14,15
<b>overhead (17)</b> 13:3;34:13,23;35:6; 50:12,18;52:22;60:9; 61:21;62:24;64:21, 24;102:12;115:15; 129:13;166:1,24	<b>parallels (1)</b> 50:9	<b>parties (8)</b> 6:13;7:4,7;16:19; 65:13;174:22;188:13; 189:25	<b>perceive (1)</b> 154:16	<b>photovoltaic (3)</b> 132:5,6;148:21
<b>overhead/underground (1)</b> 118:7	<b>parameters (1)</b> 15:16	<b>partly (1)</b> 173:21	<b>percent (31)</b> 75:7,9;87:12,14,16; 88:20,21;89:16;90:6; 92:8,17;98:8,14; 103:25;104:22; 121:11,14;138:21; 142:11,14;172:20; 177:6,15,17,25; 178:15;179:24;180:1, 9,14,14	<b>phrased (1)</b> 141:3
<b>overheads (1)</b> 127:21	<b>parcel (1)</b> 105:21	<b>parts (2)</b> 101:25;128:25	<b>percentage (2)</b> 160:6;182:20	<b>picture (2)</b> 49:20;57:25
<b>overloads (1)</b> 110:17	<b>parcels (1)</b> 82:15	<b>party (4)</b> 12:3;41:6;85:15; 191:8	<b>performed (4)</b> 94:10;95:6,10,13	<b>piece (3)</b> 22:14,16;132:2
<b>oversee (2)</b> 168:24;169:23	<b>Pardon (1)</b> 120:16	<b>pass (2)</b> 45:10;46:12	<b>perhaps (9)</b> 16:13;48:12;95:3; 96:4,10;147:21; 154:9;188:7;191:5	<b>pieces (1)</b> 112:24
<b>overtake (1)</b> 93:8	<b>Paris (1)</b> 73:13	<b>passive (1)</b> 180:16	<b>period (9)</b> 70:23,25;71:1; 72:10;73:1;95:2; 156:11;172:16; 184:17	<b>pipe (5)</b> 13:7;32:11;71:13, 15;72:1
<b>overtaking (1)</b> 93:12	<b>park (45)</b> 7:19;21:23;23:2,3; 25:12,17,21;26:18; 27:10;28:10,20; 32:12;33:19,23;35:4; 36:2,9,25;37:2,5,7,23; 38:6;55:6,24;56:5,8, 11,12,23;57:9,20,24; 61:12;62:5,16;63:20; 64:6;102:12;118:7; 119:5;127:1,3;141:7; 165:20	<b>past (11)</b> 26:13;36:21;46:18; 53:6;64:15;69:6; 130:8;135:6;182:2, 17;183:9	<b>permission (5)</b> 102:15,15,22; 107:7,18	<b>placed (1)</b> 49:16
<b>own (7)</b> 13:23;14:7;83:3; 129:9;132:17;151:2,6	<b>Parker (3)</b> 6:10;7:13;120:10	<b>patient (1)</b> 191:6	<b>permitted (1)</b> 105:12	<b>placement (1)</b> 159:1
<b>owned (1)</b> 22:15	<b>parkland (1)</b> 22:3	<b>patterns (1)</b> 47:12	<b>permits (11)</b> 79:18;103:24; 104:5,9;105:17; 124:19;150:4,8; 159:15,16;163:22	<b>places (9)</b> 30:24;79:24;84:21; 85:4;88:8;89:24;90:1, 2;148:22
<b>owner (1)</b> 150:13	<b>Parks (3)</b> 9:2;28:8;32:2	<b>Paul (1)</b> 6:22	<b>permitting (1)</b> 189:5	<b>plan (34)</b> 18:23;30:1;44:9,9; 45:19;46:4,11;47:10; 48:23;74:20;76:11; 77:1,4,7;78:13;81:12; 89:6;103:5;109:10; 117:19;129:10; 139:18;141:14;148:5, 6;149:1;154:22,25; 155:4,7,12,13,18; 157:9
<b>P</b>	<b>part (36)</b> 7:8;10:11;20:10; 21:4;22:14,22;23:5,6; 27:14;52:21;56:11, 16,19;58:13,14; 77:18;86:7;87:6; 106:2;108:24;114:3; 115:3;119:10;131:15, 23,25;134:1;137:5; 138:2,17;149:5; 150:23;172:18; 173:21;174:3;177:10	<b>pay (4)</b> 66:21,25;114:21; 116:20	<b>person (4)</b> 49:7;106:9;145:18, 20	<b>planner (2)</b> 42:23;43:3
<b>pace (1)</b> 186:2	<b>participate (1)</b> 131:18	<b>paying (3)</b> 81:6;115:7;116:10	<b>personal (1)</b> 8:1	<b>Planning (21)</b> 8:25;12:10;23:10; 40:13;45:21;46:1,6; 49:24;50:5;76:7; 80:19;85:23;87:19; 103:4,20;125:11; 150:14;155:17;156:5; 159:14;177:16
<b>page (49)</b> 12:21,23;53:18; 55:3,4;65:7;68:13; 86:6,7;87:9,25;88:4; 90:10,17,19;91:23; 93:1;94:7,14,14,15; 95:15,21,22;96:22; 97:12;98:18;99:23; 101:19;104:17,19; 134:12,15,17;135:2, 10;136:8,17,19; 138:4;141:24;147:12; 165:15;166:11; 173:19,19;174:12; 175:19;180:2	<b>participated (3)</b> 77:12;131:21; 133:14	<b>PDR (5)</b> 176:6,7,9;180:15; 181:13	<b>personally (1)</b> 144:4	<b>plants (1)</b> 50:10
<b>pages (3)</b> 175:22;180:4; 183:14	<b>participating (5)</b> 39:3;77:23;131:12, 14;133:5	<b>PDT (1)</b> 176:10	<b>perspective (1)</b> 31:11	<b>played (1)</b> 42:7
<b>pain (1)</b> 186:14	<b>participation (2)</b> 182:9;183:10	<b>PE (1)</b> 8:23	<b>perspectives (1)</b> 77:10	
<b>panel (12)</b> 8:22;12:12;120:3,8, 15;161:4;162:3,7,21; 168:7;170:20;185:22	<b>particular (11)</b> 15:11;92:24;93:19, 24;99:25;116:12; 118:14;122:21; 150:15;163:18; 165:16	<b>peak (15)</b> 44:18,21;68:16,17, 22;73:1;74:20;94:23, 25;96:6,12;176:6,6; 181:4,10	<b>Pertaining (1)</b> 136:22	
<b>PANTRY (2)</b> 4:3;120:13	<b>particularly (10)</b>	<b>peaks (1)</b> 50:21	<b>PET (2)</b> 4:3;120:12	
		<b>penetration (1)</b> 182:8	<b>petroleum-based (1)</b> 71:16	
		<b>penultimate (1)</b> 119:2	<b>phase (1)</b> 40:14	
		<b>people (23)</b> 38:24;59:5;65:14; 81:20,21;84:8,11; 133:16;146:6;151:2; 152:24;153:22,23,24; 154:3;157:12;160:24; 162:12;163:16; 173:14;186:4,7; 187:12	<b>phenomenon (1)</b> 151:19	
		<b>per (8)</b> 77:7;87:12,15;	<b>photo (3)</b> 126:19;169:20,22	
			<b>photographs (2)</b>	

<p><b>pleasant (1)</b> 59:5</p> <p><b>please (15)</b> 8:15;53:21;55:4; 73:16,16;106:10; 107:14;122:23; 127:17;141:23; 171:12;186:10; 188:20;191:2,7</p> <p><b>pleased (1)</b> 52:10</p> <p><b>plenty (1)</b> 168:1</p> <p><b>plumbing (1)</b> 81:1</p> <p><b>plus (2)</b> 17:8;73:13</p> <p><b>pm (7)</b> 108:7,7;119:22,22; 167:20,20;191:19</p> <p><b>POCD (1)</b> 154:25</p> <p><b>POINT (45)</b> 4:9;9:15;24:19; 28:20,21;29:16;38:6; 43:4;53:20;57:21; 61:19;62:4;68:4,18; 69:23;70:12;71:21; 72:6,17;73:11;74:20; 75:24,25;81:14,22; 82:20;91:2,4;92:19; 107:23;111:7;141:23; 142:10;148:11; 151:21;153:5;154:18; 157:23;158:5,20; 161:11;165:25; 176:23;179:22; 189:15</p> <p><b>pointed (1)</b> 147:12</p> <p><b>points (3)</b> 28:16;147:3;165:5</p> <p><b>pole (17)</b> 34:12,15;35:20; 36:7,13;37:21; 118:19,25;119:2,7,10; 158:24;166:10,13,14, 23;167:11</p> <p><b>poles (11)</b> 35:7,19;36:6;38:18; 111:23;112:7;113:4, 5;129:12,12;158:8</p> <p><b>policy (2)</b> 163:2,5</p> <p><b>pond (2)</b> 32:8,12</p> <p><b>ponds (3)</b> 28:11,12;58:20</p> <p><b>pop (1)</b> 20:12</p> <p><b>popular (1)</b> 150:25</p> <p><b>populated (3)</b></p>	<p>83:3;145:2;146:5</p> <p><b>population (8)</b> 76:1,14;81:16,17; 88:25;98:3;130:22; 154:11</p> <p><b>port (1)</b> 79:15</p> <p><b>portion (10)</b> 28:19;29:23;56:8; 57:7;62:7;63:20; 114:14;141:25;190:5; 191:14</p> <p><b>portions (2)</b> 55:8;142:6</p> <p><b>posit (1)</b> 49:11</p> <p><b>position (21)</b> 23:22;64:23;65:4; 86:1,12,22;87:1; 96:15;101:22;111:19; 112:11;114:1;115:24; 116:9;118:6,9; 147:14;165:1,6,25; 166:5</p> <p><b>positive (4)</b> 41:14;42:21;69:9; 114:16</p> <p><b>possesses (1)</b> 7:17</p> <p><b>possibility (1)</b> 23:11</p> <p><b>possible (9)</b> 19:6;25:11;40:10, 11,13;49:23;95:16; 119:8;146:12</p> <p><b>possibly (5)</b> 52:22,22;85:3;97:3, 21</p> <p><b>post (3)</b> 99:10;133:20; 156:13</p> <p><b>posted (2)</b> 163:16,16</p> <p><b>potential (13)</b> 25:11;37:1;43:25; 44:5;45:4;71:18,23; 82:22;87:21;88:6; 89:10;136:10,23</p> <p><b>potentially (3)</b> 91:20;136:6;186:12</p> <p><b>Power (14)</b> 7:11;21:5;64:14; 70:15;95:16,25;96:2, 9;113:16;128:9; 143:12;163:13,13; 164:9</p> <p><b>powerlines (1)</b> 84:18</p> <p><b>practically (1)</b> 123:24</p> <p><b>practices (1)</b> 13:10</p> <p><b>preamble (1)</b></p>	<p>168:2</p> <p><b>prefer (3)</b> 31:9;33:18;118:22</p> <p><b>preferred (1)</b> 29:13</p> <p><b>prefers (1)</b> 35:10</p> <p><b>prefiled (1)</b> 108:15</p> <p><b>premises (1)</b> 125:21</p> <p><b>preparation (5)</b> 9:19;10:8;11:2; 168:24;169:24</p> <p><b>prepare (9)</b> 9:19;10:8;11:2,16; 69:4;101:12;103:5; 168:23;169:22</p> <p><b>prepared (4)</b> 6:8;15:2;16:3; 106:5</p> <p><b>present (8)</b> 7:5;8:13,21;25:17; 97:13;101:20;121:7, 13</p> <p><b>presented (5)</b> 24:17;37:17;43:10; 48:8;154:17</p> <p><b>presently (2)</b> 75:8;121:12</p> <p><b>press (1)</b> 24:19</p> <p><b>pressed (1)</b> 118:17</p> <p><b>presumably (3)</b> 74:21;96:9;114:10</p> <p><b>presume (1)</b> 70:17</p> <p><b>pretended (1)</b> 14:9</p> <p><b>pretty (7)</b> 25:21;49:15;72:20; 76:4,10;144:19; 163:20</p> <p><b>preventing (1)</b> 71:11</p> <p><b>previous (3)</b> 17:7;75:15;107:2</p> <p><b>previously (3)</b> 168:7,13;171:24</p> <p><b>primarily (1)</b> 131:22</p> <p><b>primary (1)</b> 146:22</p> <p><b>prior (6)</b> 98:23;123:23; 124:14;126:7;133:19; 156:15</p> <p><b>private (1)</b> 133:8</p> <p><b>probably (17)</b> 58:11,11;60:17; 66:21,23;69:6,8;76:8,</p>	<p>10,11;78:18;79:23; 85:2;150:3;159:9; 173:12;180:11</p> <p><b>probe (1)</b> 16:1</p> <p><b>problem (14)</b> 23:19;24:5;32:21; 52:1;58:24;59:1;72:5; 84:19;91:20;93:11; 111:17,20;184:13; 187:14</p> <p><b>problematically (1)</b> 172:17</p> <p><b>problems (9)</b> 37:1;43:1;52:24; 57:2;84:13;110:16; 130:14;136:10,23</p> <p><b>Procedure (1)</b> 5:14</p> <p><b>procedures (1)</b> 109:5</p> <p><b>proceed (3)</b> 6:7;55:19;85:8</p> <p><b>proceeding (1)</b> 170:24</p> <p><b>proceedings (2)</b> 188:2;191:18</p> <p><b>process (22)</b> 23:24,25;38:15; 39:6;40:2;41:1,16; 51:8;52:4,11;54:18; 55:1;87:7;119:18; 126:6,11;133:22; 134:1;146:11;147:18; 148:18;188:6</p> <p><b>producing (1)</b> 159:18</p> <p><b>productive (1)</b> 27:3</p> <p><b>professionals (8)</b> 13:1,13;100:2,4,10, 13;101:5,12</p> <p><b>program (22)</b> 9:14;22:24;23:6; 77:22;78:7,16;84:3, 22;131:15,21,22,24; 133:5,14,20,20,24; 134:3;163:20;164:12, 13,22</p> <p><b>programs (7)</b> 77:12;78:21;80:3; 131:11;132:20; 133:13;149:7</p> <p><b>progress (1)</b> 158:2</p> <p><b>project (23)</b> 27:17;60:21;64:20; 66:2,8;83:23;87:3; 88:12;98:21,25;99:5; 110:16;113:6,24; 115:25;116:8,17; 122:21;123:2;141:6; 143:23;164:15;165:2</p>	<p><b>projected (5)</b> 81:18;121:11; 122:7;142:12;152:16</p> <p><b>projection (2)</b> 121:5;139:22</p> <p><b>projections (3)</b> 94:8,11;95:7</p> <p><b>projects (2)</b> 132:17;152:5</p> <p><b>prominent (3)</b> 119:10;166:16,18</p> <p><b>propane (1)</b> 145:5</p> <p><b>properly (1)</b> 181:18</p> <p><b>property (5)</b> 21:8;22:10;107:1; 128:5;157:6</p> <p><b>proportion (1)</b> 152:4</p> <p><b>proposal (4)</b> 12:25;24:13; 116:25;150:13</p> <p><b>proposals (1)</b> 35:7</p> <p><b>propose (1)</b> 110:15</p> <p><b>proposed (16)</b> 5:22;18:7;25:19; 26:4;58:19;67:13; 118:1;126:4;127:3; 129:3;138:7,20; 142:25;144:1,10,22</p> <p><b>proposing (8)</b> 56:21,25;58:25; 75:6,8;130:1;141:15; 145:8</p> <p><b>proposition (1)</b> 52:20</p> <p><b>pros (3)</b> 34:22,25;35:13</p> <p><b>Prospect (8)</b> 110:18;111:4,4,13; 136:7;146:23;150:11; 173:5</p> <p><b>protect (5)</b> 107:21;142:18,21; 162:21,25</p> <p><b>protected (1)</b> 40:22</p> <p><b>Protection (1)</b> 22:25</p> <p><b>proven (1)</b> 27:9</p> <p><b>provide (10)</b> 16:14;19:8,15,18; 100:10;110:15;122:6; 140:18;171:15; 174:22</p> <p><b>provided (23)</b> 15:16,17,22,24; 17:2,6;19:25;31:1; 38:2;54:17;100:13;</p>
--	---	--	--	---

122:1;130:14;131:2; 4;135:7;136:14; 137:1,2;139:14; 151:25;185:14,24		72:2;88:8;107:25; 122:13;124:22;191:6	55:7	<b>redundancy (2)</b> 83:23;114:7
<b>providing (2)</b> 86:2;148:14	<b>Q</b>	<b>rating (3)</b> 92:12,17;93:4	<b>rec (1)</b> 32:3	<b>redundant (1)</b> 83:25
<b>provisions (1)</b> 5:12	<b>QLF-20 (3)</b> 123:7,16;139:15	<b>ratings (2)</b> 90:12,13	<b>recall (4)</b> 39:7;43:20;72:21; 99:24	<b>reevaluated (1)</b> 114:1
<b>proximity (1)</b> 157:7	<b>qualifications (1)</b> 12:13	<b>rational (1)</b> 89:16	<b>recalled (1)</b> 168:13	<b>refer (4)</b> 12:16,21;94:4,14
<b>public (16)</b> 5:17;6:6,8,24; 83:13,16,17,21;84:6; 100:19;102:20;106:3; 107:24;133:10; 163:18;164:18,20	<b>qualified (2)</b> 13:17;100:24	<b>Ray (1)</b> 168:8	<b>receive (2)</b> 28:21;142:1	<b>reference (1)</b> 183:24
<b>publications (1)</b> 101:8	<b>quality (2)</b> 27:1;161:18	<b>reach (2)</b> 43:4;149:12	<b>received (3)</b> 6:1;126:23;159:15	<b>references (1)</b> 100:19
<b>pull (1)</b> 160:7	<b>quantified (1)</b> 71:14	<b>reaction (1)</b> 42:22	<b>receiving (1)</b> 149:8	<b>Referencing (1)</b> 120:19
<b>pump (5)</b> 55:11,16,24;62:23; 63:22	<b>quantify (1)</b> 182:15	<b>read (12)</b> 19:11;39:9,9,25; 51:22;64:7;90:18,20; 99:25;158:9,22; 159:10	<b>recent (1)</b> 26:12	<b>referred (4)</b> 90:11;100:20; 109:20;116:14
<b>pumped (1)</b> 60:16	<b>quantity (1)</b> 21:15	<b>reading (5)</b> 37:17;92:21,23; 93:1;100:25	<b>recently (3)</b> 111:9;139:25; 165:13	<b>referring (9)</b> 33:6;89:25;90:2; 104:25;115:1;118:15, 19;123:17;134:16
<b>pumps (1)</b> 132:11	<b>quick (6)</b> 21:13;82:25;159:2, 5;190:21,24	<b>readings (1)</b> 91:8	<b>recess (3)</b> 108:6;119:21; 167:19	<b>refers (1)</b> 90:25
<b>PURA (1)</b> 115:14	<b>quickest (2)</b> 187:23;188:1	<b>reads (1)</b> 12:24	<b>re-closers (4)</b> 111:20,22;112:19; 116:5	<b>reflected (1)</b> 100:3
<b>purchase (2)</b> 131:23,24	<b>quiet (1)</b> 156:21	<b>ready (3)</b> 8:16;146:12;179:15	<b>reconcile (1)</b> 139:7	<b>regarding (4)</b> 20:22;25:24; 162:24;174:5
<b>pure (1)</b> 152:19	<b>quite (4)</b> 83:20;87:10; 150:24,24	<b>real (4)</b> 18:1;21:14;80:16, 22	<b>reconstructed (1)</b> 55:8	<b>regardless (1)</b> 37:20
<b>purely (1)</b> 122:2	<b>quotation (1)</b> 99:25	<b>realized (1)</b> 40:19	<b>reconstruction (1)</b> 105:11	<b>regards (9)</b> 28:15;31:4;126:1; 127:1;130:15,22; 131:10;139:15; 144:21
<b>purported (1)</b> 41:22	<b>quoting (2)</b> 64:12,20	<b>realizing (1)</b> 158:8	<b>record (30)</b> 7:8;14:10;31:23; 39:9;44:11;48:18; 69:12;88:20;90:18, 20,22;102:20;105:1; 107:24;123:5;131:1; 137:5;138:2;143:8; 145:1;161:13;175:14, 19;179:11,13,15,22; 184:9;189:18;191:11	<b>Regency (1)</b> 159:21
<b>purpose (3)</b> 13:19;88:22;187:10	<b>R</b>	<b>really (32)</b> 15:4;16:1;21:18; 27:16;28:5,24;40:21, 23;42:7;57:7,24; 69:15,15,22;78:8,14, 15,22;82:8;91:8;96:8; 129:20;133:15; 135:25;142:25;152:9, 14,20;154:7;187:3,9; 191:16	<b>record-breaking (1)</b> 69:7	<b>region (2)</b> 89:21;90:9
<b>purposes (1)</b> 9:13	<b>Railroad (24)</b> 5:19;34:14;35:8,9; 36:7;52:21;53:8; 55:20;56:3;57:23; 60:10;118:2;119:5; 128:5;146:23,25; 150:10;156:16,18; 158:19,20;165:3,21; 166:9	<b>rearrange (1)</b> 167:18	<b>Recreation (4)</b> 9:3;30:16;31:14,15	<b>regional (3)</b> 88:18;89:17;90:8
<b>pursuant (1)</b> 5:12	<b>raise (4)</b> 16:2;24:22,23;60:8	<b>reason (13)</b> 7:14;48:20;49:10; 56:16;58:15;67:11; 90:6;119:3;121:1; 155:6;166:15;171:19; 173:22	<b>REC's (1)</b> 131:24	<b>regular (1)</b> 155:14
<b>pursue (2)</b> 14:3,8	<b>raised (3)</b> 14:4;19:24;24:23	<b>reasonable (1)</b> 72:19	<b>recurrence (1)</b> 142:19	<b>regulation (1)</b> 46:3
<b>push (1)</b> 66:3	<b>raising (1)</b> 92:19	<b>reasons (1)</b> 119:18	<b>red (3)</b> 43:19;47:14;82:2	<b>regulations (7)</b> 45:18,21,21; 139:20;151:2;154:23; 157:3
<b>put (24)</b> 14:10;24:14;31:21; 44:10;48:23;49:2,23; 56:25;72:2;80:25; 83:21;84:4,25;132:4, 9,10;140:24;145:1, 11;151:15;152:16; 173:16;174:9;188:4	<b>ramification (1)</b> 92:15	<b>rebate (1)</b> 132:19	<b>redevelopment (2)</b> 157:2,6	<b>rehash (1)</b> 167:25
<b>putting (4)</b> 57:16;84:8;138:22; 158:16	<b>ran (1)</b> 28:10	<b>rebuild (6)</b> 81:25;82:8;105:14; 141:15;151:5;153:16	<b>red-hot (1)</b> 45:23	<b>relate (1)</b> 91:8
<b>PV (4)</b> 176:9;179:23; 180:11,15	<b>rate (5)</b> 177:4,7;178:12; 182:16;183:9	<b>rebuilt (1)</b>	<b>redoing (1)</b> 115:21	<b>related (6)</b> 5:24;62:24;64:24; 68:3;105:19;177:9
<b>PVR (1)</b> 176:10	<b>rates (3)</b> 182:8,9;183:10		<b>reduced (1)</b> 92:18	<b>relates (7)</b> 66:11;82:9,22; 135:21,22;138:25; 152:6
	<b>rather (9)</b> 52:14;59:22;68:16;		<b>reducing (2)</b> 77:5;132:22	<b>relation (1)</b> 137:22
			<b>redundancies (1)</b> 67:16	<b>relationship (1)</b>

<p>15:10  <b>relative (1)</b>  13:11  <b>relatively (1)</b>  76:8  <b>release (1)</b>  171:21  <b>relevance (3)</b>  91:6;158:13,25  <b>relevant (1)</b>  67:11  <b>reliability (20)</b>  36:17;64:24;65:9,  16,19;66:4,8,11;  111:21,25;115:4;  116:7;117:18;128:23;  129:3;135:16,21;  143:17,20,23  <b>reliability-wise (1)</b>  65:12  <b>reliable (8)</b>  86:2,13,24;89:21;  103:7,10;163:3,13  <b>reliance (1)</b>  68:15  <b>relying (1)</b>  15:25  <b>remain (1)</b>  64:22  <b>remaining (1)</b>  142:14  <b>remediated (2)</b>  21:21,23  <b>remediation (5)</b>  22:1,24;23:3,5,6  <b>remember (2)</b>  58:17;74:2  <b>reminded (1)</b>  127:8  <b>removed (1)</b>  163:16  <b>renewable (1)</b>  131:25  <b>repair (2)</b>  56:18;60:15  <b>repeat (9)</b>  18:10;25:15;93:23;  117:11;118:10;  122:23;127:6,17;  136:21  <b>replace (3)</b>  57:13,14;59:16  <b>replaced (1)</b>  76:21  <b>replacement (5)</b>  38:19;115:14;  129:12;153:6;170:24  <b>replacing (1)</b>  56:24  <b>report (33)</b>  86:5;102:12;  103:16,24;104:13,14,  22;105:3;131:4,9;</p>	<p>134:11,13;135:2,11;  136:9;138:5;140:12;  141:23;147:12;  161:18;170:17,18,19;  174:9,16,20;175:8,20,  24;176:8,12;178:4;  179:4  <b>reported (1)</b>  104:21  <b>reports (5)</b>  75:17;171:2;176:5,  20,25  <b>representation (1)</b>  70:9  <b>representative (1)</b>  155:22  <b>Representatives (1)</b>  15:3  <b>represented (1)</b>  71:1  <b>representing (7)</b>  6:23;8:14,19,20;  91:12;103:25;160:24  <b>represents (1)</b>  90:24  <b>reproduction (1)</b>  107:2  <b>request (8)</b>  64:11;108:18;  136:10;137:8;170:9,  16;175:7,15  <b>requested (3)</b>  14:7;107:12;136:24  <b>requesting (1)</b>  19:14  <b>requests (1)</b>  135:9  <b>require (6)</b>  7:15,24;12:14;  33:15;109:15;151:1  <b>required (1)</b>  128:17  <b>requirements (2)</b>  92:1;109:4  <b>requires (3)</b>  43:13;92:3;115:14  <b>requiring (2)</b>  43:4;78:25  <b>rerouting (1)</b>  146:6  <b>research (2)</b>  14:7;51:4  <b>reserve (1)</b>  17:25  <b>residential (15)</b>  36:9;43:25;104:4,9;  124:2,6;141:25;  145:3;146:1;152:23;  157:8,10,10,16;  159:17  <b>residents (6)</b>  80:5;86:10,22;  103:13;163:3;164:10</p>	<p><b>resources (2)</b>  148:20;170:17  <b>respect (3)</b>  16:6;99:12;110:17  <b>respected (1)</b>  47:18  <b>respectful (1)</b>  99:13  <b>respectfully (2)</b>  170:9;175:15  <b>respond (1)</b>  36:12  <b>responded (1)</b>  62:11  <b>response (44)</b>  6:15,18,24;7:2;8:5;  12:16;13:21;16:21;  17:5;20:20;25:6,10,  16;34:7,9,20;40:16;  53:18,25;54:1;56:19;  64:17;68:11;75:24;  85:7;96:24;97:16;  113:13;116:12;  120:11,21;123:12;  160:20,25;161:2,24;  171:5,12;172:10,23;  180:16;184:10,11;  190:2  <b>responses (7)</b>  17:2;18:12;109:19;  126:18;168:18;185:2,  4  <b>responsibilities (1)</b>  103:3  <b>responsible (3)</b>  86:1;129:17;174:2  <b>responsive (1)</b>  15:18  <b>rest (1)</b>  83:15  <b>Restaurant (2)</b>  6:20;160:22  <b>restoration (1)</b>  128:7  <b>restore (1)</b>  113:15  <b>result (1)</b>  172:22  <b>resultant (1)</b>  36:5  <b>resulting (1)</b>  64:14  <b>results (3)</b>  86:23;164:21;  179:20  <b>resume (4)</b>  108:5,9;119:20,23  <b>resumes (1)</b>  12:12  <b>retrofitted (2)</b>  91:13,18  <b>revenue (1)</b>  105:12</p>	<p><b>revenues (1)</b>  105:10  <b>reverting (1)</b>  52:12  <b>review (3)</b>  96:23;125:11;  188:16  <b>reviews (1)</b>  155:13  <b>revising (1)</b>  179:8  <b>revisions (1)</b>  179:9  <b>rewarding (1)</b>  52:15  <b>right (53)</b>  8:24;9:2;20:16;  22:8;37:24;40:20;  48:5;49:13,14;50:14,  14;57:14;62:18;65:6,  11;66:18;98:12;  107:15;112:2,4,5,9;  121:17;122:18;  124:23;126:12;127:7;  128:2;130:5;134:18;  139:17;147:7;151:11;  154:6;158:19;165:22;  167:6;174:7;175:10;  176:1;178:5,15,21;  180:12;181:11;183:5,  22;184:3;185:9,11,  12;190:19,24  <b>rightsize (1)</b>  50:25  <b>rightsized (1)</b>  132:15  <b>rip (1)</b>  150:6  <b>risk (1)</b>  92:14  <b>Road (14)</b>  4:5;49:17;55:14,18,  19;119:5;146:22;  156:14;157:7;158:5,  20;165:21,21,22  <b>roadway (1)</b>  63:24  <b>Robin (1)</b>  5:5  <b>robust (1)</b>  78:18  <b>role (3)</b>  42:7;85:23;98:20  <b>Roman (1)</b>  9:14  <b>roof (2)</b>  151:6,7  <b>roofs (1)</b>  150:24  <b>room (6)</b>  22:6;50:20,21;  188:20;190:8,9  <b>rooms (1)</b></p>	<p>154:4  <b>root (1)</b>  55:5  <b>ROSENTHAL (19)</b>  4:13;120:7;171:3,9;  172:3;174:21;175:4,  5,9,13;176:1,24;  184:8;185:16;186:10,  17,24;189:8,12  <b>Rough (1)</b>  58:8  <b>round (1)</b>  83:10  <b>route (22)</b>  33:6,7,11,15;34:12,  13,15,23;35:2,6,24,  25;36:14;52:20;53:7;  58:7,13;99:11;  117:23;118:1,7,13  <b>routes (8)</b>  25:12;26:4;29:12;  30:23;34:9;36:25;  57:23;126:14  <b>routine (1)</b>  74:19  <b>routing (1)</b>  135:3  <b>row (3)</b>  70:11;71:21;72:8  <b>RTM (3)</b>  155:20,22,24  <b>running (1)</b>  73:1  <b>rush-hour (1)</b>  186:4</p>
<b>S</b>				
			<p><b>safe (1)</b>  163:3  <b>safely (1)</b>  191:16  <b>safety (6)</b>  83:21;103:12;  109:6;144:20,25;  145:21  <b>sake (1)</b>  110:13  <b>sales (4)</b>  123:10;124:3;  171:13;183:24  <b>salt (1)</b>  26:17  <b>same (19)</b>  20:7;41:14;47:14;  52:13;57:5;63:13;  81:2;89:20,20;131:8;  135:11;150:2;153:22;  154:1,2,3;175:21;  182:16,18  <b>Sandy (2)</b>  65:22;72:25  <b>satisfactorily (1)</b></p>	

<p>49:16 <b>satisfied (2)</b> 137:7;160:16 <b>Savageau (24)</b> 9:1;11:1,4,8,11,14; 22:12;26:2;28:23; 29:24;30:15;31:3,10; 32:1,13,16,19;77:6; 79:21;83:4;131:13; 132:23;133:11;149:3 <b>saw (6)</b> 29:25;44:9;72:13; 77:1;113:3;126:17 <b>saying (9)</b> 23:16;56:20;69:16; 79:14;80:5;101:1; 133:12;153:9;180:24 <b>schema (1)</b> 155:6 <b>scheme (1)</b> 33:1 <b>schemes (1)</b> 28:9 <b>school (14)</b> 77:19;105:10; 132:6,10;141:14,14, 15,16;148:25;149:8,9, 11;151:4,6 <b>schools (3)</b> 78:10;148:23; 149:12 <b>scientists (1)</b> 69:13 <b>scout'd (1)</b> 4:1 <b>se (5)</b> 77:7;88:25;129:4; 151:1;157:1 <b>seat (1)</b> 47:21 <b>second (8)</b> 6:16;12:23;44:13; 75:24;123:11,20; 156:8;186:10 <b>section (10)</b> 29:13;56:10;57:8, 10;62:18;77:3;94:5; 104:21;119:9;184:22 <b>sections (1)</b> 28:12 <b>sediment (1)</b> 29:25 <b>seeing (10)</b> 54:24;60:9;78:10; 150:6,10;151:12; 154:9;159:14;160:3; 171:6 <b>seeking (3)</b> 14:2;121:12;187:1 <b>seem (13)</b> 19:12;44:22;48:13; 72:5,21;73:10,13; 74:7;107:6,16;</p>	<p>134:20;150:24; 179:21 <b>seemed (2)</b> 89:9;134:19 <b>seemingly (1)</b> 33:24 <b>seems (13)</b> 45:2,5;48:6,18; 69:23;72:10;82:12; 101:21;110:22;124:5; 147:21;152:17; 189:21 <b>segment (1)</b> 165:8 <b>segments (1)</b> 29:16 <b>Selectman (4)</b> 12:9;54:14;65:23; 85:20 <b>selectman's (3)</b> 40:5;126:21;155:11 <b>selling (2)</b> 80:21,23 <b>SEN (11)</b> 37:13,25;38:4,9,12, 22;39:11,21;41:10; 42:5,16 <b>Senator (1)</b> 37:12 <b>sending (1)</b> 75:16 <b>sense (8)</b> 41:8;52:11;74:13; 82:22;83:7;89:11; 109:3;186:15 <b>sent (2)</b> 19:12;109:8 <b>separate (3)</b> 63:2;104:6;152:10 <b>September (3)</b> 5:9;39:8;100:17 <b>SERC (2)</b> 131:4,8 <b>series (1)</b> 65:21 <b>seriously (1)</b> 7:21 <b>serve (4)</b> 47:22;80:18;96:18; 109:24 <b>served (3)</b> 95:18;96:16,16 <b>serves (1)</b> 55:11 <b>service (14)</b> 60:2;70:22;86:2,13, 24;89:21;100:19; 103:8,11;109:22; 110:6;114:21;116:7; 184:17 <b>services (1)</b> 100:10 <b>serving (1)</b></p>	<p>57:11 <b>set (3)</b> 33:2;97:6;168:19 <b>setting (2)</b> 91:25;92:1 <b>seven (6)</b> 10:11,12,13;63:5,6; 186:6 <b>seventies (1)</b> 156:12 <b>several (8)</b> 26:13;28:16;34:2; 64:7;68:14,14;76:6; 77:12 <b>severe (1)</b> 64:13 <b>sewage (1)</b> 62:24 <b>sewer (3)</b> 35:17;62:5,8 <b>share (1)</b> 42:21;89:20;184:11 <b>shellfish (2)</b> 27:3,7 <b>shelters (1)</b> 85:4 <b>shift (1)</b> 138:16 <b>shifted (2)</b> 118:23,25 <b>shifter (1)</b> 118:23 <b>shooting (1)</b> 149:17 <b>shop (1)</b> 146:7 <b>Shore (2)</b> 55:15,17 <b>short (3)</b> 19:13;162:9,16 <b>shortly (1)</b> 119:20 <b>short-term (1)</b> 59:6 <b>show (7)</b> 15:10;18:6;122:1; 151:25;174:20; 176:20;177:1 <b>showed (1)</b> 18:17 <b>showing (1)</b> 180:3 <b>shown (6)</b> 18:22,24;20:18; 43:18;166:11;179:18 <b>shows (3)</b> 123:9;165:16; 179:23 <b>side (17)</b> 35:7,9,17,19;36:7; 63:16;66:13;77:5; 80:17;124:6,7;133:8; 137:20;138:16;139:1,</p>	<p>10;163:10 <b>sidewalk (1)</b> 158:17 <b>Siebert (44)</b> 8:23;10:10,15,19, 22,25;21:12,24;22:4; 42:11;50:2,13,16; 51:18;54:8;55:9;56:9; 57:4;58:5,10;59:2; 60:24;61:4,9;62:13; 63:1,5,12;72:11; 74:15;79:19;104:11; 105:7,25;112:13,22; 127:22;128:13; 129:15;132:14; 141:20;144:16; 155:25;159:6 <b>Sievert (1)</b> 10:7 <b>sign (2)</b> 66:24;159:10 <b>significance (1)</b> 82:4 <b>significant (8)</b> 23:20;37:7;73:14, 15;74:8;76:1;104:4; 113:20 <b>silent (1)</b> 147:14 <b>Silicon (1)</b> 160:3 <b>similar (3)</b> 68:18;126:17; 130:16 <b>similarly (1)</b> 124:7 <b>simple (6)</b> 48:13,13;129:24; 130:1;187:15;190:12 <b>simplistic (1)</b> 18:24 <b>simulations (4)</b> 102:13;126:19; 169:20,22 <b>single (4)</b> 34:12,15;36:7; 171:21 <b>sit (3)</b> 8:15;75:13;162:1 <b>site (13)</b> 21:16,17,21,22; 22:23;23:3,4;27:24; 30:2;33:4;98:21; 99:16;150:17 <b>sited (1)</b> 165:3 <b>sites (1)</b> 27:23 <b>Siting (16)</b> 5:3,6;12:17;24:19; 40:2;51:9;64:19; 66:17;68:12;85:13; 120:20;123:8;158:25;</p>	<p>160:5;165:1;170:23 <b>sitting (1)</b> 75:15 <b>situation (3)</b> 49:19;113:25;148:8 <b>situations (1)</b> 84:14 <b>six (9)</b> 10:11,12,13;51:16; 55:2;58:12;63:9; 116:15;151:5 <b>sixties (1)</b> 156:11 <b>size (6)</b> 19:14;27:19;73:6; 135:12;154:10; 173:17 <b>sky (1)</b> 163:8 <b>slice (1)</b> 61:11 <b>slowly (2)</b> 124:21;133:13 <b>small (8)</b> 56:10;57:10;62:18; 63:19,22;72:10; 158:20;189:14 <b>smaller (3)</b> 57:12,13;132:7 <b>smallest (1)</b> 70:16 <b>smart (1)</b> 154:5 <b>so-called (3)</b> 47:13;81:25;138:19 <b>solar (10)</b> 133:15,18,24; 148:21;150:7,18,23; 181:4;182:10,25 <b>solarize (7)</b> 80:3;131:21; 133:13,14,19,20,24 <b>sole (1)</b> 92:14 <b>solely (1)</b> 172:12 <b>solid (1)</b> 13:8 <b>solidifying (1)</b> 132:25 <b>solution (7)</b> 21:5;24:6;66:20; 67:8;110:21;112:18, 21 <b>solutions (5)</b> 24:3,12;25:2;67:25; 147:25 <b>solve (6)</b> 52:1;72:5;84:12; 91:20;110:16;111:20 <b>solves (2)</b> 52:23;53:8 <b>solving (2)</b></p>
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<p>24:4;111:17  <b>somebody (5)</b>  51:19;61:25;65:18;  105:19;159:10  <b>someone (6)</b>  49:6;82:17;93:8,12;  105:16;145:15  <b>somewhere (1)</b>  73:12  <b>songbird (1)</b>  25:18  <b>sorry (22)</b>  12:9;18:15;20:4;  25:14;38:10,12;  46:25;53:23;55:3;  61:4;88:1;89:15;  92:20;116:11;117:6;  118:11,24;123:14,19;  136:21;162:4;178:6  <b>sort (5)</b>  20:8;45:11;70:21;  87:2;128:20  <b>Sound (9)</b>  26:14,25;27:2;  32:15,18,23;55:15,17;  170:21  <b>sounds (1)</b>  191:1  <b>source (1)</b>  122:20  <b>sources (2)</b>  19:7;90:13  <b>south (8)</b>  21:10;22:2;34:13;  35:8;63:16;73:23;  165:20,23  <b>southern (1)</b>  35:17  <b>Southwest (2)</b>  177:14;179:24  <b>Southwestern (1)</b>  178:3  <b>spaces (1)</b>  157:5  <b>Spaman (17)</b>  9:2;11:15,17,21,24;  28:7,8;32:25;33:9;  117:10,12;149:15,22;  162:20;163:1;164:6,  14  <b>spatial (1)</b>  122:2  <b>speak (13)</b>  72:6;85:15,17;  105:8,8;113:8;  125:20,23;139:10;  140:13;149:4;152:1;  154:23  <b>speaking (5)</b>  37:16;42:8;101:3;  143:21;156:7  <b>speaks (4)</b>  135:16;137:17;</p>	<p>143:19;153:18  <b>special (1)</b>  149:10  <b>specific (13)</b>  23:19,20;28:19;  109:17;112:23,24;  121:1;140:8,11,13;  164:11;171:20,22  <b>specifically (15)</b>  7:17;12:22;22:17;  44:3;90:7;101:14;  102:24;103:17;  109:12;115:1;135:19;  137:4;182:11,24;  183:2  <b>specifications (1)</b>  94:1  <b>specifics (2)</b>  109:13;173:10  <b>specs (1)</b>  93:20  <b>speed (1)</b>  93:6  <b>spend (2)</b>  71:4;140:16  <b>spending (1)</b>  148:20  <b>spent (2)</b>  101:3,4  <b>spews (1)</b>  71:16  <b>spill (2)</b>  26:13;27:5  <b>spills (3)</b>  26:12;32:9,10  <b>split (1)</b>  82:17  <b>spoke (2)</b>  94:18;105:13  <b>spoken (1)</b>  140:11  <b>spots (1)</b>  174:24  <b>Square (1)</b>  190:6  <b>square-foot (1)</b>  153:20  <b>Stacy (3)</b>  6:10,12;120:10  <b>Stacy's (1)</b>  7:13  <b>staff (4)</b>  12:24;77:25;78:5;  100:1  <b>stage (3)</b>  38:17;42:4;102:2  <b>staging (11)</b>  27:15,19;28:17;  29:1,7,21;30:4,9,12,  22,23  <b>Stamford (16)</b>  88:8,14;89:5,19;  90:1;95:16,19;96:1,3,</p>	<p>11,15;97:10,14;  135:24;143:21;153:3  <b>Stamford's (1)</b>  97:23  <b>stance (1)</b>  75:15  <b>stand (1)</b>  9:4  <b>standard (11)</b>  91:24;92:3,24;  93:19,19,25,25;98:25;  99:15,15;149:17  <b>standards (7)</b>  74:1;79:4,8,9,17;  80:11;181:15  <b>standpoint (8)</b>  45:2;48:24;87:19,  22,24;122:2;143:10;  148:8  <b>stands (1)</b>  13:23  <b>start (8)</b>  28:17;36:22;67:1;  96:22;132:17;167:21;  171:11;172:7  <b>started (1)</b>  126:6  <b>starting (5)</b>  16:24;23:25;41:22;  110:22;160:3  <b>starts (2)</b>  67:23,23  <b>State (21)</b>  22:15,19;27:3,7;  47:19;55:6;64:19;  66:22;78:1,19,20,25;  84:24;97:12;98:19;  101:20;107:11;  113:19;141:4;149:9;  161:17  <b>stated (18)</b>  19:5;31:23;41:23;  61:14;64:4;76:5;  99:17;101:5;107:13,  25;109:1;116:6;  120:24;121:6;130:6;  140:19;155:5;185:20  <b>statement (6)</b>  33:22;35:25;46:13,  15;68:21;95:8  <b>statements (7)</b>  7:18,22,24;160:13;  161:10,10;191:10  <b>states (2)</b>  154:25;155:1  <b>statewide (1)</b>  79:10  <b>stating (5)</b>  32:10;44:25,25;  87:5;92:1  <b>station (9)</b>  5:18;55:16,24;  63:10;109:8;145:5,</p>	<p>16;147:6;151:17  <b>stations (2)</b>  55:12;145:14  <b>statistics (2)</b>  72:1;76:16  <b>status (2)</b>  41:7;42:2  <b>statute (2)</b>  78:25,25  <b>Statutes (1)</b>  5:13  <b>stay (1)</b>  131:8  <b>Steamboat (2)</b>  119:5;165:22  <b>Stein (1)</b>  5:5  <b>stick (1)</b>  76:10  <b>sticking (1)</b>  81:12  <b>still (25)</b>  22:5;32:2;42:21;  56:1;57:9;68:2,25;  75:10;101:22;113:11,  21;114:15;121:22;  122:3;137:10,11;  140:15,25;142:14;  144:4;146:15;148:4;  153:22;179:24;  183:21  <b>stock (2)</b>  79:12,25  <b>stood (1)</b>  39:8  <b>stop (1)</b>  119:16  <b>storm (17)</b>  64:22;65:8;66:5,12;  69:18,19;72:25;  113:11,25;114:4;  116:17;117:2,6,7;  128:7,12;162:22  <b>storms (3)</b>  65:10,20,22  <b>STR2-103 (1)</b>  166:15  <b>Street (3)</b>  113:5;133:3;173:5  <b>strengthen (1)</b>  116:6  <b>strikes (2)</b>  142:19,22  <b>strongly (1)</b>  33:25  <b>structure (2)</b>  105:20;169:23  <b>structures (4)</b>  35:22;36:6,8,13  <b>stuck (2)</b>  53:3;155:4  <b>studies (4)</b>  94:10;95:6,11,13</p>	<p><b>sub (1)</b>  83:15  <b>subject (9)</b>  39:18;92:13;98:13;  102:18;113:21;  174:11;185:8,17;  187:12  <b>submission (1)</b>  7:14  <b>submit (1)</b>  102:14  <b>submitted (9)</b>  7:7;36:4;100:18;  102:13,17;106:22;  107:22;123:7;188:9  <b>substance (1)</b>  59:14  <b>substantial (1)</b>  46:17  <b>substation (48)</b>  5:23,23;15:17;  18:19,20;20:18,25;  21:7,11;22:2;43:5;  71:13;82:5;91:21;  92:2,4;96:17;113:14,  15;114:3;121:13;  126:4;128:5,22;  138:6;140:18,23;  142:2,13,18,21,25,25;  143:3,6;144:1,6,23;  145:7,22,24,25;  152:10;156:8;166:9;  172:21,25;173:5  <b>substations (6)</b>  5:24;13:6;142:8;  177:13;181:3;184:16  <b>subsurface (1)</b>  60:5  <b>sucking (1)</b>  29:4  <b>sudden (1)</b>  93:4  <b>suddenly (1)</b>  92:14  <b>sufficient (3)</b>  109:21;172:2,4  <b>suggest (3)</b>  74:17;107:7;116:4  <b>suggested (2)</b>  16:9;135:15  <b>suggesting (4)</b>  98:24;99:3;110:20;  186:11  <b>summer (4)</b>  74:9;130:8;176:6,6  <b>superficial (3)</b>  101:21,25;102:9  <b>superfluous (1)</b>  129:21  <b>Superintendent (1)</b>  28:8  <b>superior (4)</b>  98:22,25;99:16,19</p>
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<p><b>supervise (5)</b> 9:19;10:8;11:2,16; 163:25</p> <p><b>supplement (1)</b> 19:5</p> <p><b>supply (4)</b> 21:5;63:11;80:17; 129:22</p> <p><b>support (2)</b> 21:11;141:11</p> <p><b>supported (2)</b> 113:6;139:8</p> <p><b>supportive (1)</b> 117:14</p> <p><b>suppose (3)</b> 41:18;49:8;99:22</p> <p><b>supposed (1)</b> 145:19</p> <p><b>sure (31)</b> 7:20;17:6,13;26:20; 27:16;28:24;32:4; 40:21;41:15;47:4; 50:20;51:10;58:1,6; 62:7;78:14;80:13; 83:22;87:4,8;98:2; 99:5;112:15;113:6; 146:11;160:11;164:8; 175:3;179:12;187:10; 189:11</p> <p><b>surface (2)</b> 7:19;60:13</p> <p><b>surmising (1)</b> 107:25</p> <p><b>surprise (1)</b> 103:23</p> <p><b>surprised (2)</b> 42:8;87:10</p> <p><b>susceptible (1)</b> 64:22</p> <p><b>sustain (1)</b> 108:3</p> <p><b>sustainability (1)</b> 77:4</p> <p><b>sustained (1)</b> 71:1</p> <p><b>swath (1)</b> 33:3</p> <p><b>switched (1)</b> 173:3</p> <p><b>switching (19)</b> 48:17;67:15,19, 24;68:2;96:4;111:14; 113:22;114:8,9; 128:25;143:10,11,13; 172:14,22;173:22; 174:4</p> <p><b>sworn (7)</b> 9:4,9;13:15;15:6; 97:9;168:7,14</p> <p><b>sympathetic (2)</b> 16:6;68:20</p> <p><b>system (29)</b> 49:23;64:24;67:6,</p>	<p>17;68:3,6,8,16;70:20; 77:19;83:24;114:7, 11,12;115:4,12,21; 116:2,21;117:15,19; 125:14,14;127:15,21; 129:4;132:5;138:7; 162:25</p> <p><b>systems (5)</b> 43:15;67:16; 129:10,11;162:22</p> <p style="text-align: center;"><b>T</b></p> <p><b>table (12)</b> 8:15;24:7;43:2; 60:20;65:25;75:14; 128:2;141:8;177:13; 180:2,3;184:9</p> <p><b>tack (1)</b> 43:18</p> <p><b>tact (1)</b> 43:17</p> <p><b>talk (5)</b> 47:11;65:8,18; 67:14;81:24</p> <p><b>talked (3)</b> 67:18;74:25;174:1</p> <p><b>talking (29)</b> 20:8;33:13;42:9; 44:1;54:19,19;56:12; 67:3;70:8;71:22;81:7; 87:1;88:19;91:16; 100:24;101:3;105:15; 112:23;115:19,20,23; 117:25;146:2;161:20; 164:9;173:19;182:1, 2;183:17</p> <p><b>talks (2)</b> 44:11;157:9</p> <p><b>tall (1)</b> 36:6</p> <p><b>taller (1)</b> 113:5</p> <p><b>tap (3)</b> 108:14,18,21</p> <p><b>team (1)</b> 162:13</p> <p><b>tear (1)</b> 173:15</p> <p><b>teardown (4)</b> 81:25;82:8;105:14; 153:16</p> <p><b>technical (6)</b> 7:15,17,24;12:14; 15:22,24</p> <p><b>technically (1)</b> 57:8</p> <p><b>technology (3)</b> 152:25;154:5; 159:17</p> <p><b>tells (1)</b> 172:11</p> <p><b>temperature (1)</b></p>	<p>134:21</p> <p><b>temperatures (1)</b> 134:14</p> <p><b>ten (2)</b> 184:21;185:10</p> <p><b>tend (2)</b> 76:18;162:15</p> <p><b>ten-ten (1)</b> 91:25</p> <p><b>ten-year (1)</b> 73:21</p> <p><b>term (8)</b> 20:1;27:23,25;45:9; 61:15;68:20;149:10; 171:19</p> <p><b>terms (18)</b> 26:8;27:20,23; 43:25;47:9;50:19; 78:16;83:9,25; 112:17;116:19; 132:11;144:12; 152:21;158:25; 159:13;165:24;166:5</p> <p><b>terrible (1)</b> 72:24</p> <p><b>test (1)</b> 23:15</p> <p><b>testified (6)</b> 9:11;82:7;111:7; 113:12;145:13; 168:14</p> <p><b>testify (1)</b> 16:3</p> <p><b>testimony (19)</b> 8:2,7;10:5,24; 11:13,23;16:11;19:3, 5,22;40:1,1;81:16; 108:16;114:1,13; 123:24;124:14; 145:17</p> <p><b>theory (1)</b> 71:6</p> <p><b>therefore (1)</b> 145:14</p> <p><b>thermal (1)</b> 132:11</p> <p><b>thier (1)</b> 151:4</p> <p><b>thinking (2)</b> 186:3,7</p> <p><b>third (5)</b> 17:4,11;19:5;75:24; 110:6</p> <p><b>thorough (1)</b> 39:11</p> <p><b>thoroughly (2)</b> 13:9;51:12</p> <p><b>though (11)</b> 23:3;48:13;67:12; 70:10;75:6;76:13; 151:13;153:2,10; 154:9;164:12</p> <p><b>thought (9)</b></p>	<p>39:3,5,24;40:6; 42:23;58:18;75:16; 88:16;91:17</p> <p><b>three (21)</b> 25:11,19;28:9; 30:23,23;51:22; 57:23;69:18;70:16, 18;73:25;80:13; 97:15,23;110:3,10; 135:13;164:16; 167:18;172:1;184:21</p> <p><b>threshold (1)</b> 149:12</p> <p><b>thrilled (1)</b> 102:2</p> <p><b>throughout (6)</b> 13:4,12;54:9,21; 101:16;115:21</p> <p><b>throw (1)</b> 49:19</p> <p><b>thrown (1)</b> 185:19</p> <p><b>thrust (1)</b> 38:6</p> <p><b>Thursday (1)</b> 190:7</p> <p><b>thus (1)</b> 39:15</p> <p><b>tidal (1)</b> 25:22</p> <p><b>tied (2)</b> 13:8;24:15</p> <p><b>times (8)</b> 27:22;30:3,9;34:2; 64:7;97:15,24;127:5</p> <p><b>tiny (2)</b> 62:6,7</p> <p><b>Title (1)</b> 5:13</p> <p><b>today (19)</b> 5:3;10:5,24;11:13, 23;85:17;101:12; 102:7;106:15,17; 118:6;174:1;186:6, 22,25;187:21;188:10; 190:11,15</p> <p><b>together (3)</b> 39:16;85:20;99:9</p> <p><b>told (6)</b> 24:6,12;40:12; 103:23;121:7;190:7</p> <p><b>tomorrow (1)</b> 67:1</p> <p><b>took (2)</b> 54:10;145:19</p> <p><b>top (2)</b> 86:6;141:24</p> <p><b>topic (2)</b> 23:9;67:4</p> <p><b>torn (1)</b> 76:21</p> <p><b>Toshiba (5)</b> 15:2;106:5,7,19;</p>	<p>107:21</p> <p><b>total (2)</b> 97:10;185:9</p> <p><b>totals (1)</b> 171:13</p> <p><b>toward (1)</b> 164:13</p> <p><b>towards (4)</b> 22:2;114:16; 132:24;133:6</p> <p><b>town (130)</b> 6:4,5;8:13,14,20; 9:12;12:4,8,18,24; 13:24;14:6,12,16,19; 15:23;21:9,23;22:3, 10,13,16,20;23:10,23; 27:6;28:14;31:13,16, 18,25;32:1;33:18; 35:10;36:9,12;37:18, 19;42:23;43:2;44:8; 45:4,15;49:24;52:12; 53:18,19;54:5;65:18; 75:25;77:14,15,22; 83:17,19;84:6;85:1, 15,16,17;86:7,10,15; 87:3,20,21;89:7,11; 99:3,7,13;100:1; 102:17;106:22,23; 107:22;108:9;110:15; 113:1,3,11,18,20; 114:15,21;115:22; 116:7;117:14;119:24; 120:19;122:15; 123:25;124:15;125:4; 126:3,3;127:2,20; 129:8;130:10;131:11, 13;132:17,21;133:8, 9;136:24;138:17; 139:16;141:9;142:6, 12;143:25;144:15; 145:24;146:25;147:8, 16;148:20;149:20,24; 150:21;154:18,19; 155:22;164:17; 166:22;170:20; 182:11;191:12</p> <p><b>TOWNHOUSES (2)</b> 4:9;148:11</p> <p><b>towns (6)</b> 47:18;83:16;96:25; 103:12;171:16,24</p> <p><b>Town's (19)</b> 12:16;25:24;54:1; 86:21;96:15;98:20; 103:16,24;111:19; 112:10;115:16,24; 123:2;130:17;131:5; 165:1,6,25;166:5</p> <p><b>townwide (1)</b> 82:14</p> <p><b>toxic (1)</b> 59:14</p> <p><b>track (2)</b></p>
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78:4;157:6 <b>tracks (2)</b> 56:4;63:16 <b>traditional (1)</b> 47:12 <b>traffic (4)</b> 113:7;144:18,18; 146:5 <b>Train (1)</b> 147:6 <b>transcript (5)</b> 6:3;173:18;179:6; 183:14;191:11 <b>transcripts (1)</b> 51:23 <b>transfer (1)</b> 23:18 <b>transferred (2)</b> 22:16;172:17 <b>transferring (1)</b> 23:11 <b>transformer (29)</b> 15:15;18:17;19:16; 70:22;71:19;72:4,9; 92:11,16;93:5,20; 94:1;101:9;108:13; 109:11,24;111:1,4; 121:19;135:23;136:1; 140:22;143:19; 145:10,11;147:20; 152:8;173:7;184:7 <b>Transformers (29)</b> 12:15;15:10;18:20, 22;20:19;21:4,9; 70:14;91:5,18;92:2,7; 93:21;94:2;109:20, 21,22;110:3,14,22; 111:13;121:21,25; 122:4,14;136:6; 145:9;148:1;152:17 <b>transforming (1)</b> 135:13 <b>transition (1)</b> 77:25 <b>transmission (17)</b> 5:21;13:4,5;67:12; 68:8;91:22;111:16; 114:12;115:20; 135:22,23;137:19,22; 140:17;143:12,20; 147:25 <b>traveled (1)</b> 166:19 <b>traveling (3)</b> 164:20;165:20,23 <b>traversing (1)</b> 157:13 <b>Treatment (4)</b> 50:10;59:10;73:4; 132:16 <b>tree (16)</b> 30:12;31:5,6;33:12; 112:7,11,19,23;	117:15;162:21,24; 163:5,10,15,15; 164:13 <b>trees (13)</b> 26:6;30:21;31:8; 33:19;57:18;84:17; 117:10,12;163:8,16, 19;164:17,22 <b>trench (3)</b> 28:9,13;33:1 <b>trenched (2)</b> 28:11;56:15 <b>trend (2)</b> 152:1;154:5 <b>tricky (1)</b> 60:18 <b>tried (1)</b> 57:22 <b>trimming (11)</b> 112:8,11,19,23; 117:15;162:21,24; 163:5,6,8;164:13 <b>trucks (7)</b> 29:7,20;145:4; 158:7,18,23;159:8 <b>true (11)</b> 10:1,20;11:9;45:25; 50:1;129:19;134:12; 145:23;150:21; 169:10;170:2 <b>true (2)</b> 183:11,11 <b>truthful (1)</b> 40:8 <b>try (4)</b> 65:25;69:21; 127:25;163:24 <b>trying (27)</b> 12:24;23:13,24; 24:10,22;25:23; 31:14;35:9;44:13; 51:2;61:18;70:12; 72:13,23;73:6;74:16, 17;87:4;91:11;93:2, 17;115:6;116:3,8; 128:14;151:15; 186:14 <b>Tuesday (1)</b> 5:4 <b>turn (4)</b> 18:2,4;162:1,2 <b>turned (1)</b> 158:7 <b>turning (1)</b> 158:21 <b>turnover (1)</b> 125:3 <b>two (42)</b> 5:20;17:8;18:12,12; 28:12,12;29:15;33:7; 35:6;36:6;46:6;54:1, 3;57:1;66:19;69:19; 70:16;71:18;73:25;	77:10;80:13;109:20; 110:3,5,6;133:12,12; 162:6,11;168:3,16; 170:12;175:22;176:4, 19,25;177:8;179:1; 190:9,10,13,20 <b>type (13)</b> 12:15;30:4;71:13, 15;72:1;79:15;86:9; 88:18;125:5,13; 129:7;132:12;141:11 <b>types (1)</b> 81:2 <b>typical (1)</b> 72:16 <b>typically (1)</b> 59:16	5:14 <b>units (2)</b> 70:16;135:13 <b>universally (1)</b> 74:5 <b>universities (1)</b> 83:14 <b>University (2)</b> 78:2;83:14 <b>unless (4)</b> 16:3;24:15;29:24; 128:11 <b>unlike (1)</b> 68:19 <b>unsympathetic (1)</b> 68:21 <b>up (56)</b> 8:15;19:2;21:1; 22:11;33:2;37:15; 38:5;39:8;44:22;45:3; 46:23;47:2;49:15; 51:13;55:15,23,25,25; 56:1,15;57:23;60:9, 10;61:21;62:11; 63:17,20,24;66:6; 70:11;73:15,18; 77:24;84:23;88:21; 93:5;95:16;121:10; 124:9;135:11,12; 147:24;150:6;154:20; 156:13;157:20;162:6; 163:24;165:4;173:12; 174:8;177:15;183:11, 12;184:5;189:20 <b>update (1)</b> 179:19 <b>updated (2)</b> 68:17;79:1 <b>updates (1)</b> 80:12 <b>upgrade (11)</b> 72:4;111:2,6; 115:11;121:19; 127:20;136:5;138:10, 12;141:10;147:20 <b>upgraded (2)</b> 111:11,13 <b>upgrades (5)</b> 68:6;79:13,22; 132:15;140:22 <b>upon (1)</b> 5:15 <b>upper (1)</b> 60:9 <b>urban (2)</b> 26:5,18 <b>usage (15)</b> 69:10;96:25; 125:16;132:22; 134:23;151:16; 152:11;153:11;154:2, 10;160:5;171:16,17; 172:12;183:21	<b>usages (2)</b> 139:16;153:12 <b>use (30)</b> 25:18,18;30:8; 31:15,19;35:20;45:9, 18;48:24;54:17;61:7, 8;70:5;85:4;88:24; 132:7;133:2;139:9; 149:1,20;150:7; 154:3;159:17;163:12; 174:6;177:6;181:1,8, 10;183:4 <b>used (11)</b> 23:4;31:24;34:2; 61:2;100:21;101:8; 132:6;179:19;181:21, 24;182:17 <b>useful (2)</b> 19:21;75:20 <b>users (1)</b> 134:20 <b>uses (4)</b> 31:13;125:9,13; 183:20 <b>using (8)</b> 17:21;27:20;29:7; 37:20;48:9;75:9; 77:17;180:14 <b>usually (1)</b> 187:12 <b>Utilities (4)</b> 48:22;50:22;80:20; 164:7 <b>utility (12)</b> 42:14;47:25;69:4; 85:22;86:14;94:9; 129:16,17;158:8,24; 163:22;164:19 <b>utility's (5)</b> 71:10;86:11,13,17, 19 <b>utilize (1)</b> 32:4 <b>utilized (1)</b> 31:17
<b>U</b>				
		<b>UConn (1)</b> 83:14 <b>umbrella (1)</b> 45:16 <b>umpte (2)</b> 41:4;127:5 <b>under (19)</b> 25:21,21;26:13; 32:7,11;55:21;56:1; 58:16;66:16;107:23; 136:10,23;145:5; 149:6;158:6,8;176:5; 177:12;181:13 <b>undergone (1)</b> 105:11 <b>underground (17)</b> 5:21;13:4,34;23; 36:14;52:21;60:2; 61:16;118:22;119:1, 9;165:4,9;166:1,6,8, 24;167:3 <b>undergrounding (8)</b> 67:1;114:19; 115:16;116:5;117:23; 118:13;165:7;166:13 <b>underneath (7)</b> 29:5;55:18,25;56:3; 63:17,24;158:18 <b>understands (1)</b> 133:24 <b>understood (2)</b> 135:20;136:2 <b>undertaken (1)</b> 147:15 <b>undertaking (1)</b> 146:19 <b>undiscovered (2)</b> 7:18,20 <b>unforeseen (1)</b> 60:4 <b>unfortunately (2)</b> 19:12;34:10 <b>Uniform (1)</b>		
			<b>V</b>	
			<b>vacant (2)</b> 43:24;82:14 <b>vaguely (1)</b> 181:18 <b>Valley (1)</b> 160:3 <b>valuable (1)</b> 114:10 <b>value (9)</b> 17:6,12,13;51:8; 75:12,18;92:9; 104:21;157:19 <b>values (10)</b> 17:8;25:9,13;54:17, 17;181:1,2,24;182:22,	



<p>23 <b>variation (6)</b> 33:6,12;35:14;36:1; 53:7;118:8 <b>variations (2)</b> 25:20;34:23 <b>varies (1)</b> 58:6 <b>various (5)</b> 40:11;91:3;96:25; 147:2;162:13 <b>varying (1)</b> 115:5 <b>vault (1)</b> 30:6 <b>vegetative (2)</b> 35:18;38:19 <b>vehement (3)</b> 34:2;64:7;68:20 <b>vein (1)</b> 150:8 <b>verbatim (1)</b> 6:2 <b>verification (1)</b> 12:1 <b>verified (1)</b> 15:14 <b>verify (2)</b> 9:16;174:6 <b>version (1)</b> 91:1 <b>versus (1)</b> 143:19 <b>vertical (1)</b> 35:21 <b>V-feeders (2)</b> 136:11,25 <b>viable (4)</b> 33:24;82:18;141:6; 143:11 <b>vicinity (2)</b> 55:16;147:9 <b>view (4)</b> 25:24;45:14;57:5; 154:19 <b>views (2)</b> 37:19;191:9 <b>vigorous (3)</b> 87:11,16;90:25 <b>virtue (1)</b> 102:25 <b>visibility (2)</b> 36:12,14 <b>visible (1)</b> 36:8 <b>voice (1)</b> 120:16 <b>voltage (3)</b> 13:5;108:22;143:14 <b>voluntary (2)</b> 22:24;23:6 <b>vulnerable (1)</b> 113:11</p>	<p style="text-align: center;"><b>W</b></p> <p><b>wait (3)</b> 18:2;73:17;145:15 <b>waited (1)</b> 41:9 <b>wants (1)</b> 186:21 <b>warmer (1)</b> 134:19 <b>wasted (1)</b> 42:16 <b>wastewater (6)</b> 50:9,12;59:4,10; 72:24;132:16 <b>water (14)</b> 7:19;27:1;55:22; 56:1;58:16;63:11; 80:17,18,20,21,24,25; 154:2;161:18 <b>Waterbury (1)</b> 171:25 <b>waterfowl (1)</b> 25:18 <b>way (36)</b> 23:4;41:24;44:14; 46:11;49:2,12,14; 52:1,21,23;55:13,21; 66:1;69:9;87:19; 88:18;96:9,10,13; 98:22;99:6,12,13; 121:17;137:25; 138:24;139:20; 146:12;150:2;156:6; 186:4,22;187:5,23; 188:4,15 <b>ways (1)</b> 50:21 <b>weather (5)</b> 64:14,16;69:25; 75:2;177:18 <b>weather-related (1)</b> 68:22 <b>WEG (4)</b> 15:2;106:14,19; 107:1 <b>W-e-g (1)</b> 15:2 <b>WEG's (1)</b> 107:1 <b>weigh (1)</b> 36:16 <b>weren't (1)</b> 177:9 <b>Wesleyan (1)</b> 83:14 <b>west (5)</b> 55:19,22;56:2; 62:19;76:3 <b>Western (6)</b> 26:25;27:1;56:11, 11;57:7;118:24</p>	<p><b>whack (1)</b> 53:12 <b>what's (6)</b> 27:23;59:4;65:14; 88:24;105:8;146:21 <b>whatsoever (1)</b> 141:12 <b>whenever (1)</b> 30:3 <b>Where's (1)</b> 29:7 <b>Whereupon (4)</b> 108:6;119:21; 167:19;191:17 <b>wherever (2)</b> 132:3,13 <b>whichever (2)</b> 23:12;36:1 <b>whole (7)</b> 23:25;27:3;30:17; 73:4;77:3;91:21; 111:15 <b>whose (1)</b> 92:11 <b>wife (1)</b> 191:5 <b>wildlife (1)</b> 28:2 <b>willing (7)</b> 21:10;22:10;24:14; 71:3;86:10;114:21; 171:15 <b>windows (1)</b> 150:18 <b>winter (2)</b> 31:24;70:1 <b>wires (1)</b> 129:13 <b>Wisconsin (1)</b> 100:19 <b>wish (2)</b> 45:9;147:14 <b>within (11)</b> 26:13;27:7;47:13; 53:7;76:25;118:8; 122:25;125:4;139:25; 147:5;180:2 <b>without (5)</b> 107:2,17;114:11; 171:16,22 <b>witness (367)</b> 8:21;9:21,25;10:3, 6,10,15,19,22,25; 11:4,8,11,14,17,21, 24;12:12;15:4,7;17:9, 16,23;18:9,15;19:9; 20:15;21:2,12,24; 22:4,12,23;21:24,21; 25:14;26:2;28:7,23; 29:24;30:15;31:3,10; 32:1,13,16,19,25; 33:9,21;34:3,21; 35:11;36:15;37:24;</p>	<p>38:3,7,10,13,25; 39:13,23;40:25; 41:13;42:11;43:6,9, 16;45:14,24;46:8,14, 19,22;47:1,8,24;48:5; 49:1,5;50:2,13,16; 51:18,21;52:3,7,25; 53:5,23;54:2,8;55:9; 56:9;57:4;58:5,10; 59:2;60:24;61:4,9; 62:3,13,17;63:1,5,12; 65:1,6;66:18;67:2,9; 70:3,7;72:11;74:15; 75:3;77:6;79:19,21; 81:9;83:4;85:19,24; 86:3,16,25;87:17; 88:3,15;89:14,22; 90:3,15,23;91:10; 92:5,22,25;93:22; 94:3,13,16;95:12,20, 23;96:19;97:1,5,7,18, 25;98:10,15;99:2,18, 21;100:6,11,16;101:2, 13,18;102:1,10,16,23; 103:6,9,14,19;104:2, 7,11,16;105:7,25; 106:6,11,16,21;107:4, 9;108:17,23;109:7, 16;110:1,19;111:24; 112:4,9,13,22;113:17; 114:5,23;115:9,18; 116:22;117:5,10,12, 16;118:4,18,21; 119:14;120:23;121:3; 122:10,16,22;123:4, 18;124:1,11,16,23; 125:2,7,17,24;126:5, 12,24;127:16,22,24; 128:10,13,19;129:15, 23;130:5,11,19;131:3, 7,13;132:14,23; 133:11;134:18,25; 135:8,14;136:16,20; 137:3,9,13,16;138:8, 22;139:6,17;140:2,4, 14;141:13,19,20; 142:4,20;143:2,7,18; 144:2,8,11,14,16,24; 146:24;147:4,17; 149:3,15,22;150:9; 151:10,20;152:13; 153:8,14;154:6,21; 155:25;156:1,10,17, 20,25;157:17,21,24; 159:6,19,25;162:21; 163:1;164:6,14; 165:11,18;166:3,7,21; 167:1,4,8;168:25; 169:1,2,5,6,7,11,12, 13,16,17,18,25;170:4, 7;171:18;172:8,15; 173:1,4,9,23;174:10, 13,17;176:18;177:2,8,</p>	<p>22;178:1,6,9,13,16, 18,23;179:2,17;180:8, 13,17,20,25;181:9,17, 23;182:4,16,21;183:3, 8,15,23;184:4,15,23 <b>witnesses (7)</b> 9:9,16;13:18;16:3; 168:13;170:20; 191:17 <b>Wolf (1)</b> 8:19 <b>wondering (2)</b> 58:23;95:17 <b>word (6)</b> 34:1,4;48:24;64:7; 70:6;167:23 <b>words (6)</b> 38:1;127:18;139:3; 143:4;151:15;172:13 <b>work (27)</b> 13:12;14:18;22:1; 45:12;56:18;66:3; 77:16;79:16;80:6; 87:7;98:23;99:4; 110:5;113:1;115:11; 117:17;127:14,25; 133:21;140:23;146:9, 10;147:24;163:15,21, 25;184:16 <b>worked (4)</b> 47:7;85:22;106:23; 186:19 <b>working (22)</b> 30:8;39:2,6,16,24; 40:4;65:24;67:5; 77:10;78:1,12,15; 79:25;80:3;131:15; 132:24;133:2,5,10; 134:1,6,6 <b>Works (7)</b> 8:24;83:16,17;84:6; 99:6,6;106:3 <b>worry (3)</b> 61:22,23;70:2 <b>worth (3)</b> 8:8;14:12;16:11 <b>wrap (1)</b> 189:19 <b>written (4)</b> 42:22;100:9,21; 191:10 <b>wrote (1)</b> 94:20</p> <p style="text-align: center;"><b>Y</b></p> <p><b>year (22)</b> 64:12;69:6,12; 79:18;87:13,15; 103:17;104:1,10,15, 23,24;105:9;124:2; 138:21;140:1;174:16; 182:23;183:12;</p>
---	---	--	---	---

184:21,21,21 <b>year-by-year (1)</b> 152:12 <b>years (23)</b> 23:22,25;24:11; 26:13;39:2;41:4; 46:18;47:15;67:4; 69:18,19;73:25; 80:13,14;92:18,19; 111:9;134:14;148:3; 151:5;156:7;164:16; 184:3 <b>YouTube (1)</b> 145:10	190:6,7 <b>10,000 (1)</b> 153:20 <b>10,094,000 (1)</b> 124:5 <b>10,196,000 (1)</b> 124:4 <b>10th (4)</b> 188:18;189:19,20; 191:1 <b>11 (4)</b> 5:4;136:8,19;138:4 <b>11.1 (2)</b> 17:8,15 <b>11/23 (1)</b> 12:22 <b>113 (1)</b> 104:19 <b>114 (1)</b> 104:19 <b>114.8 (3)</b> 17:8,14,24 <b>115-kilovolt (2)</b> 5:18,20 <b>119 (1)</b> 166:25 <b>11B-1 (1)</b> 9:15 <b>11th (1)</b> 64:11 <b>12 (4)</b> 5:11;85:13;104:1; 172:7 <b>12/1 (2)</b> 173:19;183:14 <b>120 (1)</b> 92:13 <b>124.9 (2)</b> 17:6,12 <b>125.9 (1)</b> 17:17 <b>13 (3)</b> 175:9,11,13 <b>13.2-kV (1)</b> 114:20 <b>133 (3)</b> 92:8,16,17 <b>134 (5)</b> 75:6,11;110:9; 130:1;140:18 <b>135 (3)</b> 90:11;91:9;121:8 <b>135-MVA (1)</b> 70:13 <b>13-kilovolt (1)</b> 65:11 <b>14 (6)</b> 72:18;96:22;97:12; 123:9,16;180:2 <b>140 (3)</b> 66:9;71:4;121:15 <b>144 (1)</b> 122:7	<b>144.2 (1)</b> 121:6 <b>14th (1)</b> 123:15 <b>15 (3)</b> 72:18;168:20; 175:14 <b>15,000 (2)</b> 153:20,21 <b>150 (1)</b> 167:12 <b>16 (5)</b> 5:13;141:24; 153:23;168:19,21 <b>160 (2)</b> 110:8;122:6 <b>16th (2)</b> 64:18;185:21 <b>17 (3)</b> 56:20;165:15; 166:11 <b>175 (1)</b> 82:14 <b>18 (3)</b> 34:20;65:7;148:2 <b>19 (1)</b> 12:17 <b>1st (1)</b> 170:15	68:15,23;69:5,16,24; 70:8,10;72:13;75:4; 83:11;94:23;95:2; 96:6,12;130:14; 134:14,21;164:16; 174:9,23;175:7,18; 176:5,12,13,21;177:1, 21;178:17,22,24 <b>2013/2014 (2)</b> 103:17;104:15 <b>2014 (10)</b> 67:21;68:17;96:25; 130:17;134:14,22,25; 135:1;161:19;187:8 <b>2014/2015 (1)</b> 170:17 <b>2015 (43)</b> 5:9,10,10;6:2; 12:11;17:22;67:22; 68:17;69:12;70:10; 72:20;80:10;94:24, 25;95:4;120:20; 124:5,9,12;130:17; 134:11,19,24;172:21; 174:19,19,23;175:8, 16,23;176:5,8,9,11, 20;177:1,21;178:21, 22,23;179:23;180:6; 187:8 <b>2016 (8)</b> 5:4,11;79:3;85:14; 123:9;168:19,21; 190:7 <b>2022 (2)</b> 176:19;179:1 <b>2023 (9)</b> 44:22;48:10;75:4; 121:5,9;122:7; 129:25;140:19; 152:16 <b>215's (1)</b> 80:10 <b>22 (2)</b> 147:12;183:19 <b>224 (1)</b> 170:23 <b>2269 (1)</b> 176:11 <b>23 (3)</b> 5:4;12:11;134:11 <b>236 (2)</b> 155:25;156:1 <b>2368 (2)</b> 176:7,11 <b>23rd (9)</b> 13:23;14:1,2,4; 44:11;65:7;86:5; 102:12;120:20 <b>2489 (1)</b> 176:12 <b>24-inch (1)</b> 57:12 <b>25 (8)</b>	12:21;92:19;98:18; 99:23;165:14;168:20; 169:21;183:19 <b>2593 (2)</b> 176:7,13 <b>25-foot (1)</b> 33:3 <b>26 (18)</b> 6:2;12:22;65:7; 86:6;87:10;88:5; 90:10;91:23;94:7,15; 95:15,22;96:22; 97:12;98:18;99:23; 101:19,19 <b>26-B (1)</b> 93:1 <b>27.6 (1)</b> 184:7 <b>275 (1)</b> 4:5 <b>27-K (1)</b> 111:6 <b>284 (1)</b> 101:23 <b>290 (1)</b> 5:19
<b>Z</b>				<b>3</b>
<b>zero (1)</b> 105:18 <b>zone (1)</b> 157:1 <b>Zoning (24)</b> 9:1;12:10;40:13; 45:18,20;46:1,2,7; 76:7;103:4,20; 107:13;125:11; 139:19;150:14;151:2; 154:23;155:6,18; 156:5,6,23;157:3; 159:14				<b>3 (10)</b> 9:20;12:8;55:4; 58:11;63:8;87:9; 165:15;166:11; 173:12;174:12 <b>3:19 (1)</b> 167:20 <b>3:25 (1)</b> 167:20 <b>3:58 (1)</b> 191:19 <b>30 (3)</b> 58:20;60:12;92:18 <b>300 (2)</b> 167:5,10 <b>33 (1)</b> 172:20 <b>330 (1)</b> 150:10
<b>0</b>		<b>2</b>		<b>4</b>
<b>0.5 (1)</b> 180:1 <b>0.8 (1)</b> 180:14 <b>06471 (1)</b> 4:6		<b>2 (7)</b> 9:20;55:4;68:13,13; 86:6;148:3;173:12 <b>2,000 (1)</b> 79:20 <b>2,286 (1)</b> 103:23 <b>2.3 (1)</b> 5:22 <b>2:01 (1)</b> 119:22 <b>2:21 (1)</b> 119:22 <b>20 (3)</b> 123:12;184:6,10 <b>200 (1)</b> 17:22 <b>2007/2008 (2)</b> 104:10,24 <b>2009 (2)</b> 79:8;184:12 <b>2010 (3)</b> 124:2,12;172:21 <b>2011 (2)</b> 65:22;164:16 <b>2012 (3)</b> 65:22;79:4,8 <b>2012/2013 (2)</b> 104:1,23 <b>2013 (35)</b> 44:19,20;45:5;48:9;		<b>3:19 (1)</b> 167:20 <b>3:58 (1)</b> 191:19 <b>30 (3)</b> 58:20;60:12;92:18 <b>300 (2)</b> 167:5,10 <b>33 (1)</b> 172:20 <b>330 (1)</b> 150:10 <b>4 (8)</b> 9:20;10:9;11:3; 88:4;90:10,17,19; 165:8 <b>40 (2)</b> 46:18;47:15 <b>409 (1)</b> 104:22 <b>43 (2)</b> 168:17;170:10 <b>44 (4)</b> 101:23;168:19;
<b>1</b>				
<b>1 (19)</b> 5:9,10;9:20;15:1; 53:18,18;87:12,16; 88:20,21;89:16;90:6; 109:19;138:21; 161:19;177:6,6,15; 178:15 <b>1.1 (1)</b> 178:17 <b>1.2 (8)</b> 87:14;88:17;177:5, 17;179:24;180:9,11, 14 <b>1:01 (1)</b> 108:7 <b>1:45 (1)</b> 108:5 <b>1:48 (1)</b> 108:7 <b>10 (4)</b> 135:10;184:12;				

<p>169:21;170:10 <b>461 (3)</b> 5:7;119:20,24 <b>47 (1)</b> 173:19 <b>48 (2)</b> 142:14;173:19 <b>49 (1)</b> 104:22 <b>4B (1)</b> 165:9 <b>4-kV (2)</b> 114:19,19</p>	<p>103:25;135:3;136:8, 18;177:25;180:19 <b>80 (3)</b> 73:12;93:8,14 <b>80-MVA (6)</b> 20:19;109:11,20, 20;122:4;152:17</p>			
<b>5</b>	<b>9</b>			
<p><b>5 (8)</b> 9:20;10:9;11:3; 91:23;93:1;95:21; 134:12,17 <b>5,000 (1)</b> 153:21 <b>50 (2)</b> 46:18;156:6 <b>50/50 (4)</b> 176:6,7,8,11 <b>500 (1)</b> 173:11 <b>500-year (1)</b> 74:2 <b>52 (1)</b> 142:11 <b>57.1200-1010 (1)</b> 91:24 <b>5-day (1)</b> 95:2</p>	<p><b>9 (6)</b> 48:10,15;95:15,21, 22;135:2 <b>9.2 (5)</b> 75:5;121:9;129:25; 140:18;152:15 <b>90/10 (4)</b> 176:6,7,10,12 <b>90-kilowatt (1)</b> 132:5 <b>95 (1)</b> 34:14</p>			
<b>6</b>				
<p><b>6 (8)</b> 5:10;9:20;10:9; 11:3,16;14:25;135:3; 168:19 <b>60 (3)</b> 98:8,14;183:14 <b>62 (2)</b> 183:14;184:1 <b>65 (1)</b> 93:7 <b>6th (1)</b> 113:13</p>				
<b>7</b>				
<p><b>7 (7)</b> 9:20;10:9;11:3,16; 55:4;75:7;121:11</p>				
<b>8</b>				
<p><b>8 (14)</b> 9:15,20;10:9;11:3, 16;94:7,14,15;</p>				