

**In The Matter Of:**  
*Candlewood Solar, LLC, Petition for a Declaratory  
Ruling*

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*September 26, 2017  
Hearing*

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*BCT Reporting LLC  
PO Box 1774  
Bristol, CT 06010  
860.302.1876*

## Hearing

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STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Petition No. 1312

21 | Held Before e:

**ROBIN STEIN, Chairman**

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## Hearing

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1      **A p p e a r a n c e s :**

2      **Council Members:**

3              **JAMES J. MURPHY, JR.**

4              **Vice Chairman**

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6              **ROBERT HANNON,**

7              **DEEP Designee**

8

9              **MICHAEL HARDER**

10              **DR. MICHAEL W. KLEMENS**

11              **ROBERT SILVESTRI**

12              **DANIEL P. LYNCH, JR.**

13

14              **Council Staff:**

15              **MELANIE BACHMAN, ESQ.,**

16              **Executive Director and Staff Attorney**

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18              **MICHAEL PERRONE,**

19              **Siting Analyst**

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21              **LISA FONTAINE,**

22              **Office Assistant**

23

24              **For DEEP:**

25              **KIRSTEN RIGNEY**

## Hearing

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1      **A p p e a r a n c e s : (cont'd)**

2      **For the Petitioner (Candlewood Solar, LLC):**

3            **MICHAUD LAW GROUP, LLC**

4            **515 Centerpoint Drive, Suite 502**

5            **Middletown, Connecticut 06457**

6            **By: PAUL R. MICHAUD, ESQ.**

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8      **For RESCUE CANDLEWOOD MOUNTAIN:**

9            **LAW OFFICES OF KEITH R. AINSWORTH, ESQ., LLC**

10            **51 Elm Street, Suite 201**

11            **New Haven, CT 06510-2049**

12            **By: KEITH R. AINSWORTH, ESQ.**

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1                   THE CHAIRMAN: Good afternoon, ladies  
2 and gentlemen. I'd like to call to order the  
3 meeting of the Connecticut Siting Council on  
4 petition 1312, today, Tuesday, September 26, 2017,  
5 at 3 p.m.

6                   My name is Robin Stein. I'm Chairman of  
7 the Connecticut Siting Council. Other members of  
8 the Council present are Senator Murphy, our Vice  
9 Chairman; Mr. Hannon, designee from the Department  
10 of Energy and Environmental Protection; Mr.  
11 Silvestri; Dr. Klemens; Mr. Harder; and Mr. Lynch.  
12

13                  Members of the staff present, our  
14 Attorney Melanie Bachman, our Executive Director;  
15 Mr. Perrone, siting analyst; and Lisa Fontaine,  
16 our fiscal administrative officer.

17                  This hearing is held pursuant to the  
18 provisions of Title 16 of the Connecticut General  
19 Statutes and of the Uniform Administrative  
20 Procedure Act upon a petition from Candlewood  
21 Solar, LLC, for a declaratory ruling that no  
22 certificate of environmental compatibility and  
23 public need is required for the proposed  
24 construction, maintenance and operation of a 20  
25 megawatt solar photovoltaic electric generating

1 facility located on a 163 acre parcel at 197  
2 Candlewood Mountain Road and associated electrical  
3 interconnections to Eversource Energy Rocky River  
4 Substation on Kent Road in New Milford,  
5 Connecticut. The petition was received by the  
6 Council on June 28, 2017.

7 As a reminder to all, off-the-record  
8 communication with a member of the Council or  
9 member of the council staff upon the merits of  
10 this petition is prohibited by law.

11 The parties and interveners to the  
12 preceding are as follows. Candlewood Solar, LLC,  
13 Attorney Michaud -- hope I got it close enough --  
14 representing; the Town of New Milford; Department  
15 of Energy and Environmental Protection; the  
16 Department of Agriculture; and Rescue Candlewood  
17 Mountain, which is a party and CEPA intervenor.

18 We will proceed in accordance with the  
19 prepared agenda, copies of which are available  
20 here, also available -- I believe those are in the  
21 back -- are copies of the Council's citizens guide  
22 to the Siting Council procedures. At the end of  
23 this afternoon's session we will recess and resume  
24 again at 6:30 p.m.

25 The 6:30 p.m. hearing will be reserved

## Hearing

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1 for the public to make brief oral statements into  
2 the record. I wish to note that parties and  
3 interveners, including their representatives and  
4 witnesses are not allowed to participate in the  
5 public comment session.

6 I also wish to note for those who are  
7 here and for the benefit of your friends and  
8 neighbors who are unable to join us for the public  
9 comment session, that you or they may send written  
10 statements to the Council within 30 days of the  
11 date hereof, and such written statements will be  
12 given the same weight as if spoken at the hearing.

13 A verbatim transcript will be made of  
14 the hearing and deposited with the town clerks'  
15 offices in New Milford, Brookfield and New  
16 Fairfield for the convenience of the public.

17 Is there any public official here at  
18 this time who wishes to make a public statement?

19 (No response.)

20 THE CHAIRMAN: I wish to call your  
21 attention to those items shown on the hearing  
22 program marked as Roman numeral 1D, items 1  
23 through 117. Does the petitioner or any party or  
24 intervener have an objection to these items that  
25 the council has administratively noticed.

## Hearing

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1 MS. RIGNEY: No objection.

2 MR. MICHAUD: No objection.

3 MR. AINSWORTH: No objection.

4 THE CHAIRMAN: Hearing and seeing none,  
5 the Council hereby administratively notices these  
6 existing documents, statements and comments. The  
7 petitioner, present your witness counsel for the  
8 purposes of taking the oath.

9 MR. MICHAUD: Yes, Chairman Stein. I'm  
10 going to introduce the panel from my right down  
11 the line.

12 Directly to my right is Jim Walker.

13 He's the Vice President of Solar Grid-Tie Projects  
14 at Ameresco. To his right is Joel Lindsay  
15 Director of Project Involvement at Ameresco, the  
16 project developer.

17 To his right is Robert Bukowski. He's  
18 the principal engineer at Amec Foster Wheeler.  
19 He's the engineering consultant to the project.  
20 And to his right is Ms. Pamela Chan Senior Project  
21 Manager at Amec Foster and Wheeler, environmental  
22 consultant to the project.

23 And lastly, to her right is Mr. Brian  
24 Butler. He's the president at Oxbow Associates.  
25 He's the wetlands and wildlife consultant to the

1 project.

2 I would like to present these witnesses  
3 to be sworn in now.

4

5 B R I A N B U T T E R,

6 P A M E L A C H A N,

7 R O B E R T B U K O W S K I,

8 J O E L L I N D S A Y,

9 J A M E S W A L K E R,

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

13 THE CHAIRMAN: Please continue by  
14 numbering and verifying the exhibits in your  
15 filing.

16 MR. MICHAUD: Yes, sir. So the  
17 petitioner has ten exhibits today for  
18 identification purposes, and it's consistent with  
19 Roman numeral 2B in the hearing program.

20 Exhibit 1, which is Candlewood Solar  
21 LLC's petition for a declaratory ruling, including  
22 all attached exhibits, dated June 28, 2017;  
23 Exhibit Number 2, which is the petitioner's  
24 response to Council interrogatories, dated August  
25 28, 2017, and this would be set one.

24 I would submit these ten exhibits for  
25 identification now, and then continue with the

1 verification.

2 THE CHAIRMAN: Okay. Is there any  
3 objection?

4 (No response.)

5 THE CHAIRMAN: Continue.

6 MR. MICHAUD: So regarding -- and I'm  
7 speaking to the panel. So regarding Exhibits 1  
8 through 10 I will ask each of the witnesses on  
9 this panel in turn the same questions, and you can  
10 respond to my -- each of you can respond to my  
11 question. It's the same question.

12 So the first question is, did you  
13 prepare or cause to be prepared Exhibits 1 through  
14 10?

15 THE WITNESS (Walker): Yes.

16 MR. MICHAUD: Mr. Lindsay?

17 THE WITNESS (Lindsay): Yes.

18 MR. MICHAUD: Mr. Bukowski?

19 THE WITNESS (Bukowski): Yes.

20 MR. MICHAUD: Ms. Chan?

21 THE WITNESS (Chan): Yes.

22 MR. MICHAUD: Mr. Butler?

23 THE WITNESS (Butler): Yes, but I would  
24 qualify it with 3C.

25 MR. MICHAUD: Okay. In what way?

1                   THE WITNESS (Butler): It's part --

2                   THE REPORTER: I'm having trouble  
3 hearing you.

4                   THE WITNESS (Butler): I'm sorry. I  
5 said specifically with attachment 3C. I wasn't  
6 active. I did not have a -- so that some of the  
7 other documents proceed mine coming on.

8                   MR. MICHAUD: Okay. Thank you.

9                   And in regard here, do you have any  
10 edits, corrections or changes to Exhibits 1  
11 through 10 that you worked on, Mr. Walker?

12                  THE WITNESS (Walker): None.

13                  MR. MICHAUD: Mr. Lindsay?

14                  THE WITNESS (Lindsay): No.

15                  MR. MICHAUD: Mr. Bukowski?

16                  THE WITNESS (Bukowski): No.

17                  MR. MICHAUD: Ms. Chan?

18                  THE WITNESS (Chan): No, not at this  
19 time.

20                  MR. MICHAUD: Mr. Butler?

21                  THE WITNESS (Butler): It's of a minor  
22 nature. We identified a couple more species of  
23 amphibians on the site than were reported in the  
24 earlier document.

25                  MR. MICHAUD: And do you adopt Exhibits

1 through 10 as part of your sworn testimony  
2 today, Mr. Walker?

3 THE WITNESS (Walker): Yes.

4 MR. MICHAUD: Mr. Lindsay?

5 THE WITNESS (Lindsay): Yes.

6 MR. MICHAUD: Mr. Bukowski?

7 THE WITNESS (Bukowski): Yes.

8 MR. MICHAUD: Ms. Chan?

9 THE WITNESS (Chan): Yes.

10 MR. MICHAUD: And Mr. Butler, in regard  
11 to your exhibit?

12 THE WITNESS (Butler): Yes.

13 MR. MICHAUD: And with that, I would  
14 submit Exhibits 1 through 10 as full exhibits now.

15 THE CHAIRMAN: Does any of the parties  
16 or interveners object to these being admitted?

17 MS. RIGNEY: No.

18 MR. AINSWORTH: No objection.

19 THE CHAIRMAN: Thank you. Then they  
20 will be admitted. We will now begin with  
21 cross-examination starting with staff, Mr.  
22 Perrone.

23 MR. PERRONE: Thank you, Mr. Chairman.

24 To begin, one minor clarification.

25 Could you explain the relationship between New

1 Milford Clean Power, LLC, and the petitioner  
2 Candlewood Solar, LLC?

3 THE WITNESS (Lindsay): We possess a  
4 lease option with New Milford Clean Power for the  
5 property, to utilize the property for the project.

6 MR. PERRONE: And what is the status of  
7 the approval of the power purchase agreement?  
8 Because looking at the response to Council  
9 interrogatory number two it notes that the PPA was  
10 submitted for review and approval to the Mass DPU?

11 THE WITNESS (Lindsay): Yes. The power  
12 purchase agreement has been executed with the  
13 utilities, that the signatures are in escrow until  
14 the Massachusetts DPU gives its approval of PPAs.  
15 They have been -- they have been submitted to the  
16 DPU. They were actually submitted on September  
17 20th.

18 MR. PERRONE: So it's currently being  
19 reviewed by the Mass DPU?

20 THE WITNESS (Lindsay): Yes.

21 MR. PERRONE: Okay. Is there an option  
22 to extend rather than renew the PPA?

23 THE WITNESS (Lindsay): No, the PPA is  
24 20 years.

25 MR. PERRONE: On page 10 of the profile

1 of Joel Lindsay it notes that the EDC selected the  
2 project because it will provide deliveries into  
3 the ISO New England forward capacity market.

4 My question is, has the petitioner  
5 participated in, or plans to participate in the  
6 ISO forward capacity auction?

7 THE WITNESS (Lindsay): As part of this  
8 we will plan to participate. This -- you mean,  
9 previously and other projects? Or --

10 MR. PERRONE: On this specific project?

11 THE WITNESS (Lindsay): Right. This  
12 specific project has specific conditions in the  
13 PPA that have requirements for us to participate  
14 in the forward capacity market.

15 MR. PERRONE: Did you hear anything  
16 about possible tariffs being placed on the import  
17 of solar panels?

18 THE WITNESS (Lindsay): I guess only  
19 what we have heard in -- in the past few months,  
20 and that the USITC has actually ruled for injury  
21 for the U.S. solar manufacturers, which has been  
22 in the news --

23 THE CHAIRMAN: Do you have a  
24 contingency? If that goes into effect could that  
25 affect your project, meaning the cost of solar

1 panels?

2 THE WITNESS (Walker): Yes. We have  
3 been evaluating contingencies and looking at  
4 alternative panel design -- so looking at  
5 alternative panels. So not all panels are  
6 governed by that tariff. We're looking at panels  
7 that are not governed by that tariff, and have  
8 been in conversations with a manufacture for solar  
9 that makes those alternative panels.

10 MR. PERRONE: Moving onto the Federal  
11 Aviation Administration review, I understand  
12 multiple no-hazard letters were filed. How were  
13 the locations chosen? Did you pick the center of  
14 the facility, or the corners of the facility and  
15 the locations of the interconnection poles?

16 THE WITNESS (Lindsay): We picked  
17 locations all along the interconnection, but we  
18 also picked locations around the full perimeter of  
19 the solar facility, and also within, you know, we  
20 tried to cover the entire extent of the solar  
21 facility.

22 MR. PERRONE: And those no-hazard  
23 letters, is it correct to say that they're related  
24 to the height and location of the facility? They  
25 have nothing to do with the glare analysis itself.

1           Is that correct?

2           THE WITNESS (Lindsay): Yeah. There is  
3           no glare analysis specifically required by the FAA  
4           in this instance.

5           MR. PERRONE: But is it correct to say  
6           that the petitioner did submit the glare analysis  
7           to the FAA for their review?

8           THE WITNESS (Lindsay): We submitted it  
9           and that may be the -- we submitted it to the  
10           Siting Council and we are submitting it to FAA.

11           MR. PERRONE: And in the Town of New  
12           Milford's Zoning Commission letter, the commission  
13           had recommended the information on the glare  
14           analysis be provided to Candlelight Farms Airport.

15           Has the glare analysis been provided to the  
16           airport?

17           THE WITNESS (Lindsay): No, we haven't  
18           provided it specifically to them, but we've -- as  
19           you know, we've made it available through the  
20           Siting Council through our submittals.

21           MR. PERRONE: And in the comments from  
22           the Connecticut Department of Transportation it  
23           talks about the possibility of a highway  
24           encroachment permit being required.

25           If this project is approved would the

1           petitioner apply for a highway encroachment permit  
2           for work performed within the Route 7  
3           right-of-way?

4                   THE WITNESS (Lindsay): As necessary we  
5           will do that. Part of that will be determined  
6           based on the finalization of the impact study from  
7           Eversource in terms of the division of work at the  
8           location where we interconnect adjacent to  
9           Route 7.

10                  MR. PERRONE: And I'm going to move onto  
11           the electrical interconnection now more  
12           specifically. On page 11 of the petition it notes  
13           that the power would be rounded through two 13.8  
14           kV conductors. Did the petitioner intend to say,  
15           two circuits?

16                  THE WITNESS (Lindsay): They are two  
17           conductors running from the facility to the  
18           interconnection point. You know, specifically if  
19           you call it two circuits it's essentially, you  
20           know, they're splitting the output of the -- of  
21           the array on those two conductors. So the full  
22           output would go -- would be split more or less  
23           evenly along those two conductors.

24                  MR. PERRONE: So two conductors per  
25           phase?

1                   THE WITNESS (Lindsay): No. No. They  
2 would be each of the conductors -- each of the  
3 conductors essentially would be a three-phase  
4 assembly.

5                   MR. PERRONE: Okay. I see. And would  
6 those proposed interconnection poles be wood to  
7 match the wood surroundings?

8                   THE WITNESS (Lindsay): Yes.

9                   MR. PERRONE: And I understood you've  
10 already provided the approximate height of those  
11 structures, but just as a comparison do you know  
12 the average tree height in the vicinity of the  
13 interconnection?

14                   THE WITNESS (Lindsay): It tends to be  
15 essentially in the -- in the range of 60 feet, 50,  
16 60, maybe as much as 70 feet.

17                   MR. PERRONE: In the interconnection  
18 route design did the petitioners seek to keep the  
19 pole locations out of wetland areas to the extent  
20 that the spans allow it?

21                   THE WITNESS (Lindsay): Yes, to the --  
22 to the maximum extent we have done that, that's  
23 been part of our routing analysis.

24                   MR. PERRONE: Did you find that you  
25 couldn't completely avoid wetlands?

1                   THE WITNESS (Lindsay): There's one area  
2 where we -- we couldn't completely avoid. We're  
3 not in the wetland, but we are going to need to  
4 trim some trees that are in the wetland. Not  
5 remove them, but cut trees just to avoid  
6 interference from trees. And that's in our  
7 approximately 2,000 square foot area of one  
8 wetland.

9                   MR. PERRONE: So you wouldn't have any  
10 actual direct impact where the pole would be  
11 physically in the wetlands?

12                   THE WITNESS (Chan): Could I just  
13 clarify? There are no poles or guy attachment  
14 locations in the wetlands. The wetland impacts  
15 that you're discussing are actually broken out.  
16 There's four different wetland crossings, and  
17 there will be some tree clearing in those areas.  
18 It would be above ground. No stump removal. No  
19 soil disturbance at all. So --

20                   MR. PERRONE: One final question on the  
21 electrical interconnection topic. In DEEP's  
22 comments DEEP mentions that placing the  
23 interconnection lines underground would be  
24 extremely difficult and disruptive, and lists  
25 several reasons.

1                   Does the petitioner agree with that,  
2                   that an underground route would be difficult and  
3                   disruptive?

4                   THE WITNESS (Lindsay): I would say,  
5                   generally yes. I mean, we would say we would  
6                   prefer an aboveground route at this point.

7                   MR. PERRONE: Moving on to Council  
8                   interrogatory response 65 where it talks about the  
9                   vertical screw post being installed by a  
10                   self-propelled screw drilling machine. So is it  
11                   correct to say that the post would be spun into  
12                   the ground rather than hammered or driven into the  
13                   ground?

14                   THE WITNESS (Bukowski): Yeah, that's  
15                   correct. In some cases they may predrill the hole  
16                   with a diamond bit if there's places that have  
17                   shallow bedrock. But yeah, it's basically a  
18                   ground screw so, it gets spun into the ground.

19                   MR. PERRONE: We've had some projects  
20                   where they're actually driven into the ground. Is  
21                   having it spun into the ground by a screw machine  
22                   quieter than driving it into the ground?

23                   THE WITNESS (Bukowski): Yeah, it's -- I  
24                   mean, it the sound of a drill rig really going  
25                   through. It's probably a little bit quieter, but

1 you know, in this terrain a driven post just  
2 wouldn't work very well.

3 MR. PERRONE: In the Town of New  
4 Milford's Zoning Commission comments dated  
5 September 11th there are several recommendations.  
6 Actually there's four at the end. One is  
7 requiring a 100-foot landscape buffer along the  
8 property's frontage on Candlewood and along common  
9 property boundaries with single-family.

10 Has the petitioner looked at that and  
11 would you be able to accommodate that?

12 THE WITNESS (Lindsay): We have not  
13 looked at that to date.

14 MR. PERRONE: Have you looked at the  
15 proposed restriction on construction hours which  
16 would be item number three?

17 THE WITNESS (Lindsay): Our intent was  
18 to comply with New Milford's stated construction  
19 hours and not go outside of those.

20 MR. PERRONE: And I understand that  
21 attached to the DEEP comments is a storm water  
22 management memo with recommendations at the end to  
23 minimize storm water impacts. Would the  
24 petitioner be willing to comply with those  
25 recommendations?

1 THE WITNESS (Lindsay): I would say,  
2 yes, and we just started to do our review of  
3 those. We actually plan to meet with DEEP and  
4 their staff, the storm water staff to review the  
5 storm water design also.

6 MR. PERRONE: And moving onto historic  
7 resources, I understand that the petitioner is  
8 proceeding with the phase 1B cultural survey. We  
9 have the 1A before us. Has the -- oh, let me  
10 backup a second. The phase 1A survey, my  
11 understanding is that has been submitted to SHPO.

14 | THE WITNESS (Chan): No, not yet.

15 MR. PERRONE: And the 1B cultural  
16 survey, when that's ready, that will also be filed  
17 with SHPO?

18 THE WITNESS (Chan): Yes, and we'll will  
19 submit a copy with the Council.

20 MR. PERRONE: And moving onto response  
21 to Council interrogatory 48, this is the carbon  
22 debt analysis. An EPA number is provided for CO2  
23 displaced per kilowatt hour that you put into the  
24 grid.

25 Is it fair to say that that's a national

1                   number based on how the grid looks today?

2                   THE WITNESS (Lindsay): I think that's  
3                   fair to say.

4                   MR. PERRONE: Okay. And so as a caveat,  
5                   is it also correct to say if that's the annual  
6                   carbon dioxide being displaced, that's an  
7                   approximation because the grid portfolio can  
8                   change over time?

9                   THE WITNESS (Lindsay): I would agree  
10                  with that.

11                  MR. PERRONE: Okay.

12                  Thank you. That's all I have.

13                  THE CHAIRMAN: Thank you. Now we'll  
14                  continue with Senator Murphy.

15                  MR. MURPHY: Thank you, Mr. Chair. I  
16                  just have a few questions.

17                  You indicated that in response to the  
18                  first question from Mr. Perrone that it's a lease  
19                  action under which you will be going in and taking  
20                  title?

21                  THE WITNESS (Lindsay): Yes.

22                  MR. MURPHY: How long is the lease for?

23                  THE WITNESS (Lindsay): The lease is a  
24                  20-year lease.

25                  MR. MURPHY: And at the end of the

1           20-year term does, as most leases would, the title  
2           would revert back to whoever is your lessor?

3           THE WITNESS (Lindsay): Yes.

4           MR. MURPHY: How do you talk in terms of  
5           giving permanent easements as a part of  
6           discussions with planning and zoning as to the  
7           upper portion and so forth if all you have is a  
8           20-year lease?

9           Counsel, maybe you can enlighten me as  
10          to how you pull that trick off. I don't know that  
11          I could have done it in my days of practice,  
12          but --

13          MR. MICHAUD: The project is negotiation  
14          with the land owner. So it would be in agreement  
15          with the landowner.

16          Yeah, so the project is in consultation  
17          with the landowner on this so they're speaking,  
18          and we've been representing that it's in  
19          consultation with the landowner.

20          MR. MURPHY: So the lease that your  
21          client would be receiving as the tenant for 20  
22          years would have the proviso that as a tenant the  
23          tenant could bind the property for whatever  
24          environmental easement might be worked out between  
25          these land trusts that you've indicated, that the

1 applicant would be willing to do?

2 MR. MICHAUD: We could do that or we  
3 could have the land owner --

4 MR. MURPHY: It seems quite fuzzy to me  
5 that you go in for 20 years, but you're able to  
6 leave something behind which may be in perpetuity.

7 MR. MICHAUD: Yes. So our original  
8 lease is for 20 years, however in order to help  
9 move the project along we have entered into talks  
10 in regard to what happens after 20 years. So that  
11 hasn't been finalized yet, and until it gets  
12 finalized, you know, we don't have a definitive  
13 answer on -- in regard to the lease.

14 MR. MURPHY: And when might this be  
15 finalized?

16 MR. MICHAUD: Once we come to an  
17 agreement with DEEP, for example.

18 MR. MURPHY: That's as good an answer, I  
19 suppose, as I'm going to get.

20 THE CHAIRMAN: Mr. Hannon has a  
21 followup.

22 MR. HANNON: I just want to follow up.  
23 You're talking about a 20-year lease, but I  
24 thought in one of the documents it also talks  
25 about up to two 5-year extensions. So what are we

1           really talking about?

2           Are we talking about just 20 and that's  
3           it? Or is there a possibility of going up to 30?

4           THE WITNESS (Lindsay): The PPA with the  
5           utilities is 20 years, and that's it. And then  
6           there's a provision to allow for potential  
7           extensions to the lease.

8           And also in the pilot agreement with the  
9           Town there's a potential extension of the pilot  
10          agreement for five years.

11          MR. HANNON: Okay. So in the lease  
12          itself there's the option of two five-year  
13          extensions?

14          THE WITNESS (Lindsay): Yes, I need to  
15          double check, but I think it's two. I think it's  
16          two five-year extensions.

17          MR. HANNON: Okay. Thank you.

18          MR. MURPHY: The reason I raise this  
19          issue is because it came to mind in reading this  
20          that I think that the fact that these  
21          environmental easements might be entered into for  
22          a period long past the 20-year lease, the  
23          consideration that people had made and how this  
24          thing has been thought of.

25          I was just wondering how it was going to

1           be done, and I'm concerned to be sure that it can  
2           be done. And I'll leave it with that, but when  
3           you finalize we'd certainly appreciate knowing how  
4           that particular consideration is going to be taken  
5           care of, because I assume it will be taken care  
6           of.

7           MR. MICHAUD: That's correct. We will  
8           inform the Council.

9           MR. MURPHY: Okay. Thank you. I have  
10           just a couple of other questions.

11           On the interrogatories from the Council  
12           the question of traffic during construction, I  
13           know the question dealt with construction vehicles  
14           which amounts to a very small number.

15           How many employees of various concerns  
16           will be there from time to time working who will  
17           have vehicles that will also amount to traffic to  
18           and from there, which I think is a consideration  
19           for us?

20           THE WITNESS (Lindsay): At any one time  
21           there could be 50 to a hundred employees there.

22           MR. MURPHY: And presumably they don't  
23           do an awful lot of carpooling.

24           THE WITNESS (Lindsay): Who knows?

25           MR. MURPHY: The noise information

1 basically is from where the hookup is with  
2 Eversource. Is there any noise report or what  
3 have you on the drilling and what have you as to  
4 what the sound might be in the sectors off the  
5 property when construction is going on?

6 THE WITNESS (Bukowski): I -- I don't  
7 have information on hand as far as the decibel  
8 level of the drill rig.

9 MR. MURPHY: And if anybody knows, does  
10 New Milford have a noise ordinance? It talks  
11 about DEEP's noise requirements. Many towns have  
12 their own noise ordinances.

13 THE WITNESS (Chan): Based on our review  
14 at the time we were preparing materials we were  
15 not able to find anything. So I don't believe  
16 they do.

17 MR. MURPHY: Okay. I think for now, Mr.  
18 Chairman, that's all I have today.

19 THE CHAIRMAN: Thank you.

20 Let's continue with Dr. Klemens.

21 DR. KLEMENS: Thank you, Mr. Chairman.

22 My questions are going to be quite  
23 narrowly focused. A lot of us on the Siting  
24 Council have concerned themselves with the  
25 technical aspects of how this project may be

1                   constructed. I want to move us back to the  
2                   fundamental question of whether this site is an  
3                   appropriate location for such a project, and do we  
4                   have sufficient information concerning the natural  
5                   resource bias of this site to make an informed  
6                   decision on the petition now in front of the  
7                   Council.

8                   I have three sets of questions. The  
9                   first set is going to focus on the adequacy of  
10                  natural resource data. The next set will focus on  
11                  vernal pools, and the final set will focus on the  
12                  state listed threatened slimy salamander.

13                  So my first question that the  
14                  applicant -- and I assume that most of these  
15                  questions are going to be directed to Mr.  
16                  Butler -- is to ask for a brief response to the  
17                  letter from Carl Wagner from CEQ.

18                  Specifically, that the analysis of  
19                  vegetation and wildlife are inadequate, and  
20                  therefore an informed decision from the  
21                  Connecticut Siting Council is not possible. And  
22                  also elaborate on the assumptions that wildlife  
23                  will move away from disturbances.

24                  THE WITNESS (Chan): I'm going to  
25                  actually start responding to that, and then Brian

1           certainly can -- can add to my response, and we  
2           will keep it brief.

3           Amec Foster Wheeler prepared the  
4           environmental assessment. Mr. Butler was brought  
5           on to assist us with, in particular, with listed  
6           species questions and issues. He also has  
7           reviewed materials that we've provided and  
8           prepared, and is very familiar now from his time  
9           in the field with -- with the site.

10          Our approach to the overall question of  
11          site suitability for wildlife, vegetation, et  
12          cetera, is basically that we recognize that it is  
13          a -- it is a large natural habitat full of a wide  
14          variety of species currently, presumably.

15          Fundamentally on a project of this scale  
16          when you're doing this amount of clearing and  
17          alteration of habitat you're going to have impacts  
18          to whatever species are out there. They are going  
19          to have no choice essentially but to move  
20          elsewhere or be impacted. Our primary concern has  
21          been the focus on listed species.

22          At the time of the preparation of the EA  
23          we had not yet received a response from natural  
24          diversity. We were looking at the site in a  
25          general manner and we are focusing in on the

1 listed species issues now.

2 I'm not sure if you have more to add  
3 based on your knowledge of the site?

4 THE WITNESS (Butler): And it also  
5 predates my involvement, but -- thank you.

6 Dr. Klemens. I think Mr. Wagner's, the  
7 gist of it is that the native species, rare --  
8 rare or common will not simply be displaced and go  
9 elsewhere. And I think he's correct in that  
10 assertion that there will be impacts to at least  
11 common wildlife at any kind of land change use  
12 such as this, or anything analogous to it from an  
13 early forested environment to a grassland  
14 environment. There will be displacement.

15 There will be a change in, a reduction  
16 in diversity overall, a change in the character of  
17 the landscape. So that I think was his main  
18 criticism, that and the fact that a breeding bird  
19 survey hadn't been executed, and I think we've  
20 resolved that based on habitat season analysis  
21 internally, at least.

22 It hasn't been elaborated onto the  
23 board, but we are quite convinced we have a fairly  
24 comprehensive understanding of the golden wing  
25 warbler status on the site, which is negative.

1           And if there's other specifics in his response I'd  
2           be happy to try to address those to you, too.

3           DR. KLEMENS: Thank you.

4           Now I want to turn to Starchild's  
5           recommendation in his letter that the Connecticut  
6           Siting Council should reject Petition 1312 without  
7           prejudice until such time as the petitioner and  
8           their agents can address all these necessary  
9           environmental and possible threatened species  
10           concerns.

11           THE WITNESS (Chan): Well, I guess I  
12           will -- I will state that we are certainly working  
13           through the listed species issues with the Natural  
14           Diversity Database folks. We're in the process of  
15           preparing our response to their -- response to our  
16           initial request for information.

17           We fully intend to address the species  
18           that they've identified. There, there are broader  
19           issues that he addresses in terms of the value of  
20           the overall forested habitat there.

21           I'm not -- I disagree with his position  
22           that you should not move forward on our petition,  
23           but I'm not quite sure what you're looking for.

24           DR. KLEMENS: What I'm trying to ask is  
25           obviously you have -- and I'm digressing from my

1           prepared remarks, or my prepared questions -- is  
2           you're basically assuming that this Council should  
3           be able to render a decision without all this  
4           data.

5           All this data will be provided to us in  
6           the course of when the hearing is open. I mean,  
7           we have this hearing. We have another one,  
8           possibly another one. We have a decision that has  
9           to be made around the 20th, 21st of December.  
10          When are all these data going to become available?

11          When are these data going to come  
12          available, not only to the Council, but to all the  
13          other interested parties, the interveners and  
14          other interested people to look at these data?

15          THE WITNESS (Chan): Specific to the  
16          Natural Diversity Database species that have been  
17          identified we are moving forward to prepare that  
18          information and prepare a submittal prior to the  
19          October 31st hearing.

20          And it would be submitted to the  
21          Council, of course, and all the parties.

22          DR. KLEMENS: Thank you.

23          THE CHAIRMAN: Excuse me.

24          Mr. Silvestri has a question?

25          MR. SILVESTRI: Thank you, Mr. Chairman.

1                   I want to make sure I understand this  
2 correctly. Have any on-site surveys actually been  
3 conducted by you folks for the wildlife aspect of  
4 it? I'm going to leave the vernal pools and the  
5 wetlands for Dr. Klemens, but actual on-site  
6 surveys?

7                   THE WITNESS (Butler): If you could  
8 please define what we've -- well, I'll tell you  
9 what we've done. We've looked at things specific  
10 for the rare and endangered state listed species.  
11 My firm has been engaged to look at those facets  
12 of the project.

13                   So we've done surveys. We've done a  
14 number of cover objects. To term we've spent  
15 about 24 site hours on the site with myself and  
16 another geologist who did his master's degree on  
17 Plethodontids, and salamanders -- which is the  
18 group of salamanders that is targeted there for --  
19 as a threatened species.

20                   So we have not done a comprehensive  
21 wildlife in a general case. Some of that  
22 information was submitted prior, but we are  
23 looking at the state listed species which are  
24 elaborated upon in Mr. McKay's letter of July  
25 10th, I think, which would be wood turtle, box

1                   turtle, slimy salamander, golden wing warbler and  
2                   I believe that -- and bats. So the bat species,  
3                   which were not present.

4                   MR. SILVESTRI: So I'm looking at other  
5                   than birds and reptiles. For example, have deer  
6                   wintering areas been identified anywhere within  
7                   the site or in relation to the site?

8                   THE WITNESS (Chan): We have not  
9                   specifically looked at that issue.

10                  MR. SILVESTRI: And anything else for  
11                  the larger animals, the coyotes, the fox, et  
12                  cetera? I take it you haven't done any type of  
13                  survey for animals of that type.

14                  THE WITNESS (Chan): No.

15                  MR. SILVESTRI: Thank, you Mr. Chairman.

16                  DR. KLEMENS: Going back to submittals,  
17                  Tim Abbott of the Housatonic Valley Association  
18                  stated concerns concerning the regional  
19                  significance of this core forest as well as the  
20                  impacts upon the fragile cliffs and talus slopes  
21                  caused by clearing other associated impacts in the  
22                  interconnected lease area.

23                  Can you elaborate on the significance of  
24                  the core forest and on the potential impacts to  
25                  the cliffs and talus slopes, particularly how it

1 may impact the state threatened slimy salamander?

2 THE WITNESS (Butler): Yeah, in other  
3 words, specific to the interconnect that you're  
4 speaking of?

5 DR. KLEMENS: Mr. Abbott spoke very  
6 specifically about his concerns about the  
7 interconnected lease area, the clearing over the  
8 talus slopes and cliffs?

9 THE WITNESS (Butler): There is an area  
10 just to the east of the field where we all -- or  
11 the council members just visited the larger kind  
12 of odd-shaped polygon field where the interconnect  
13 begins and then runs cross country via the  
14 reservoir and down to Route 7.

15 There's a short distance there, a fairly  
16 steep slope talus or fragmenting limestone and  
17 mature trees, hickory and oaks and other species  
18 of matures.

19 So there is an impact that will be a  
20 linear -- probably in the order of 30 feet wide,  
21 but a linear distance at a tangent, or at a  
22 diagonal to that slope of, I'm guessing, maybe 3  
23 or 4 hundred feet. After that it goes down into  
24 the valley where the outlet for the reservoir is  
25 at the base of the dam. And then upper mesic

1 forest slope and then it intersects the access  
2 road for the reservoir and runs for, I think,  
3 about a mile and change along parallel to that  
4 road. So it's already a completely fragmented  
5 situation there.

6 The fragmenting of the forest is  
7 arguable because where the interconnection  
8 alignment leaves the array field is essentially  
9 adjacent to the largest horse pasture on the site  
10 now. So once you're inside the forest it's not  
11 fragmented, but it's not fragmented by a 300-foot  
12 buffer to -- to any disturbances. Fragment --  
13 it's in attached forest only, you know, a hundred  
14 feet back to the fields.

15 DR. KLEMENS: I think you sort of  
16 conflated the two parts. The first part of the  
17 question -- let's go back to the lease, to the  
18 interconnected lease area.

19 THE WITNESS (Butler): Sure.

20 DR. KLEMENS: You now said you're going  
21 to have an impact, a 30-foot wide impact. Can you  
22 comment on when you cut into 30 feet of mature  
23 forest and clear it, what are the extent of  
24 impacts on both sides of that area?

25 Desiccation, sunlight, invasive plants?

1       It may be a 30-foot cut, but how far is the  
2       penetration of that impact on each side of it,  
3       sort of like a highway sort of analysis?

4                   THE WITNESS (Butler): Yeah. There's --  
5       there's an offset effect on the microclimate of  
6       the soil forest community. And there's been a  
7       number -- I'm sure you're aware of, a number of  
8       academic papers that some say it reaches out, you  
9       know, 300 meters if you're looking at invertebrate  
10      densities and species composition. I'm not sure  
11      I'm entirely convinced of that.

12                  But there's an influence greater than 30  
13      feet. There's more opportunity for blowdowns in  
14      the wind, windthrow and it will be either dry --  
15      the humidity gradient is going to change because  
16      it can act as a wind corridor that there's none  
17      present currently.

18                  But the forest that's specific to the  
19      interconnect going from the lower field to the  
20      Candlewood outlet or Candlewood overflow is not a  
21      core forest component as it stands right now.

22                  DR. KLEMENS: So it would be correct to  
23      say then that the development footprint is 30 feet  
24      wide, but the ecological footprint is many orders  
25      of magnitude larger based on desiccation, the

1           things you said, the invertebrate community?

2           THE WITNESS (Butler): I would not  
3           concede that it's orders of magnitude greater, but  
4           it certainly reaches -- extends beyond the 30  
5           feet. It's not a wall of influence.

6           DR. KLEMENS: Well, you said up to 300  
7           meters in some studies?

8           THE WITNESS (Butler): There's  
9           literature out there, yeah, that has made claims,  
10           you know, in the forestry rows in large, intact  
11           forest systems. But I don't think you can measure  
12           particularly in this system where it's mostly  
13           bedrock. There's not a lot of soil development  
14           out there.

15           I don't think the influence is going to  
16           be measurable and orders of magnitude outside that  
17           border. If you came back in 50 years the  
18           community I don't think would be in any measurable  
19           way a different community with the exception of  
20           some insolation at the ground surface and the  
21           underground surface to make it more of an  
22           understory development than is there now.

23           DR. KLEMENS: So let's get back to Mr.  
24           Abbot's other part, this actual concept of core  
25           forest. What is the impact? We looked at the

1 site. There's a large forest block northward  
2 toward the highest point on Candlewood Mountain.  
3 That's part, according to Mr. Abbott, I believe,  
4 of the very large forest block, core forest block.

5 What are the impacts of losing that core forest  
6 block to the biodiversity of the state, to the  
7 wildlife values of the State?

8 THE WITNESS (Butler): That will  
9 certainly change. On site there's a finite amount  
10 of core forest, but as part of a larger system  
11 there's probably 7 or 8 hundred acres of  
12 contiguous forest with virtually de minimus  
13 interruptions or intrusions.

14 So the array field will diminish the  
15 diversity, diminish the volume of core forest by  
16 definition by pushing the edges of the remaining  
17 forest closer to -- closer to the disturbance,  
18 closer to open canopy. So there will be a  
19 diminution in forest interior bird occurrences,  
20 and some of the larger mammals will react  
21 accordingly to that.

22 So there will be a change in the  
23 character of the landscape, that core, the whole  
24 core forest concept from clear is meant to kind  
25 look at these large landscape areas, because they

1       are in diminishing occurrence throughout New  
2       England. So there will be a change. There will  
3       be a diminution of forest, but --

4                   DR. KLEMENS: Does this drop the  
5       different kind of thresholds on core forest  
6       significance? Does the loss of these 70 some  
7       acres push it below or change its status as a core  
8       forest block?

9                   MR. MICHAUD: Before we answer that  
10      question I just have a request, Chairman Stein.  
11      We'll be in a better position to answer these  
12      questions once we submit our study we spoke about  
13      earlier.

14                  At this point we haven't submitted a --  
15      perhaps by the -- we indicated we would submit it  
16      by the next hearing. Perhaps those questions are  
17      better suited for the next hearing?

18                  THE CHAIRMAN: I would rather let -- Dr.  
19      Klemens has the opportunity. I think it's  
20      valuable for Dr. Klemens to ask the questions now.

21                  The respondents can answer to the best  
22      of their ability now or they can also say we  
23      are -- as they have said, provide that additional  
24      information, but I want to make sure that Dr.  
25      Klemens questions are on the record now.

1                   You still have something?

2                   MR. MICHAUD: I'll withdraw the request.

3                   Thank you.

4                   THE WITNESS (Butler): I think, just to  
5 follow up there will be -- not under site control,  
6 but in that system that will be still greater than  
7 250 to 500 acres of intact core forest that's  
8 partially within, partially not within our border.

9                   DR. KLEMENS: Thank you.

10                  And I also have a very specific question  
11 to you, Mr. Butler, with experience and respect to  
12 an environmental scientist. I've watched your  
13 work for many years.

14                  Do you contend that the data submitted  
15 is sufficiently comprehensive and robust to allow  
16 the CSC to make an informed decision on the merits  
17 of this petition vis-a-vis the impact on natural  
18 resources and on threatened and endangered  
19 species.

20                  THE WITNESS (Butler): Okay. I'm not  
21 always sure when you're finished with your  
22 question.

23                  Simply no, not this time, but prior to  
24 the October 31st I think we will have sufficient  
25 information for the Council to make an informed

1 decision in that regard.

2 DR. KLEMENS: Thank you.

3 Concerning the golden winged warbler, on  
4 page 8 of your prefilled testimony there's a  
5 lengthy discussion of how you are unable to  
6 conduct the surveys in the optimal time period  
7 made, but then concluded that there was virtually  
8 no probability of breeding predator species  
9 because of habitat conditions.

10 I ask you the question, might not these  
11 conclusions be more robust and credible had  
12 surveys actually been conducted in the optimal  
13 time of year?

14 THE WITNESS (Butler): That's -- part of  
15 that answer is in response to the McKay letter  
16 from July 10th where they suggested, she suggested  
17 the surveys be done for the golden warbler, and we  
18 would agree to that site unseen. I would agree  
19 that that was the most -- an empirical assessment  
20 would be the most definitive.

21 But having seen the site, and studied it  
22 at least superficially -- or at least seen the  
23 entirety of the open possible candidate areas  
24 which are the three pasture lands. Those don't  
25 meet any of the criteria that are requisite for

1 bringing by golden winged warbler. And I can  
2 elaborate a little bit.

19 So the pastures that are there are  
20 heavily used. You saw there was animals in there.  
21 They've been cropped. There's no secondary  
22 growth, no abandonment of pasture anywhere on that  
23 site that would provide a habitat that's even --  
24 even any approximation of the type of habitat  
25 needed by that species for breeding. So I don't

1       feel that empirical surveys have any merit given  
2       what we've seen on the site itself.

3                   DR. KLEMENS: Thank you.

4                   You've answered the golden winged  
5       warbler. How about the other 20 bird species that  
6       people have talked about? Mr. Boule spoke about  
7       it in his letter. Carl Wagner spoke about it.

8                   There's no breeding bird surveys because  
9       I understand this whole application was  
10      constructed after the optimal time to conduct  
11      breeding bird surveys.

12                  So here's a question that you may take  
13      umbrage with. But in short, isn't this  
14      application really a hasty compilation to meet  
15      administrative deadlines rather than well-planned  
16      studies of the site that maximizes seasonal  
17      opportunities for the detection of significant  
18      species? And this is across the board.

19                  THE WITNESS (Butler): I'll start,  
20      but -- and the other members may want to -- the  
21      petition to DEEP was April of this year, and the  
22      response was July 10th. So by that time any  
23      window for that opportunity was virtually already  
24      eclipsed for any kind of empirical breeding bird  
25      survey. And my charge has been with the rarities

1                   rather than the, you know, the general wildlife,  
2                   as another gentleman asked earlier.

3                   So essentially between April -- if the  
4                   response were more forthcoming -- and I know  
5                   there's logistical issues with staffing and  
6                   response time with these state agencies. I'm not  
7                   being critical, but because the response came  
8                   after the breeding there really wasn't a lot of --  
9                   we couldn't really turn back the hands of time and  
10                  try to address that empirically.

11                  DR. KLEMENS: Why couldn't it have been  
12                  done next year during the full season and then  
13                  submitted? I mean, we would have had full data.

14                  THE WITNESS (Butler): I'll leave that  
15                  to the --

16                  THE WITNESS (Lindsay): The project is  
17                  under contract under the guidance of the utilities  
18                  and with the landowners for the lease option, and  
19                  will be with the interconnection. So we are -- we  
20                  are under contractual obligations to meet, and  
21                  that's why we're doing as thorough job as we can  
22                  and hiring the experts that we can to get the best  
23                  results that are available.

24                  DR. KLEMENS: Thank you.

25                  Let's go to vernal pools. You state in

1 record that wetland five is a tier one vernal  
2 pool?

3 THE WITNESS (Butler): Yes.

4 DR. KLEMENS: That's using the criteria  
5 of Calhoun and Klemens. Correct?

6 THE WITNESS (Butler): Correct.

7 DR. KLEMENS: Okay. In your response to  
8 Connecticut Siting Council Interrogatory Number  
9 60, pages 23 and 24 there's a rather convoluted  
10 and not -- what I thought nonresponsive answer to  
11 a straightforward question posed by Council staff.  
12 So I'm going to ask you again for the record.

13 Is approximately 23.3 percent of the  
14 critical terrestrial habitat of Woodland five  
15 going to be cleared, i.e., lost as part of the  
16 project? It's a yes or no answer.

17 THE WITNESS (Chan): I will clarify  
18 that. The actual percentage for just the CT area  
19 is 24.9.

20 DR. KLEMENS: 24.9. It's gone up.

21 THE WITNESS (Chan): Well, the -- and  
22 that's why the response was worded the way it was,  
23 was because the way we stated it. The 23.3 in the  
24 petition, for whatever reason we wrote it as of  
25 the entire vernal pool environment, including the

1 pool in the 100-foot envelope. We should have  
2 focused on the CTH only, but we -- we didn't. We  
3 just defined it slightly differently. We make  
4 that statement in the EA, that it is the entire  
5 vernal pool environment, 23.3.

6 So I was trying to make it clear that  
7 the 23.3 was with respect to that entire larger  
8 area. I should have added that specific to the  
9 CTH it's only -- it's 24.9.

10 DR. KLEMENS: So basically you were one  
11 tenth of a percentage point below the threshold  
12 for acceptable development?

13 THE WITNESS (Chan): Right.

14 DR. KLEMENS: With the critical  
15 terrestrial, because there is no development in  
16 the pool?

17 THE WITNESS (Chan): That's correct.

18 DR. KLEMENS: No development in the  
19 envelope?

20 THE WITNESS (Chan): That's correct.

21 DR. KLEMENS: So it's 24.9 percent  
22 development in the critical development  
23 terrestrial habitat?

24 THE WITNESS (Chan): That's correct.

25 And in fact, I'll just add that it was designed to

1                   meet those guidelines.

2                   DR. KLEMENS: Thank you.

3                   Is wetland five the only vernal pool  
4                   that could be potentially impacted on the subject  
5                   property?

6                   THE WITNESS (Chan): Yes.

7                   DR. KLEMENS: That DEEP was  
8                   complementary of your efforts to conserve wetland  
9                   five, did they ever ask you whether there were  
10                   other vernal pool resources on the site?

11                   THE WITNESS (Chan): They have not asked  
12                   us that, and the wetland delineation that was done  
13                   did not identify other vernal pools.

14                   DR. KLEMENS: Have you assessed or are  
15                   you familiar with cryptic vernal pools and the  
16                   definition of cryptic vernal pools?

17                   THE WITNESS (Butler): I'm familiar with  
18                   the definition. We have not formally assessed.  
19                   We acknowledge that the wetlands that you and I  
20                   looked at today has vernal pool characteristics,  
21                   at least secondarily or implicit from what was  
22                   observed there. We were not there during breeding  
23                   season, but --

24                   DR. KLEMENS: Let's discuss the cryptic  
25                   vernal pool, which is in Calhoun and Klemens.

1       It's basically an area within a larger wetland  
2       that has vernal pool functions as defined by the  
3       presence of indicator species.

4               This afternoon we went to the area  
5       together of that wetland. We flipped a log. We  
6       found a marbled salamander. We found four-toed  
7       salamanders. We saw about 20, more or less, wood  
8       frogs as well as spring peepers and a red eft and  
9       bufo americanus, American toad.

10              So have you considered that large  
11       portions of wetland one may be indeed a cryptic  
12       vernal pool based, not only on the morphology, but  
13       also on the biota that we saw this afternoon?

14              THE WITNESS (Butler): Myself, I  
15       hadn't -- my charge has been strictly with the  
16       rare and endangered. So I, to be honest, I hadn't  
17       examined that aspect of the submittal.

18              DR. KLEMENS: Okay. As someone who's  
19       looked at a lot of vernal pools, would you say  
20       that is a cryptic vernal pool, that large area?

21              THE WITNESS (Butler): Yeah, the  
22       hydrology and the secondary indicators we saw.  
23       Yeah.

24              DR. KLEMENS: Yes. Okay. So we've  
25       established in fact that there's another vernal

1 pool on the site.

2 Now you were on site in September of  
3 this year. Was there any effort, other than the  
4 half hour we spent together today, expended on  
5 searching wetland one or wetland five for the  
6 presence of autumn breeding marbled salamanders?

7 THE WITNESS (Butler): Yes. Wetland  
8 one, I spent probably 30 or 40 minutes turning  
9 objects. And still there's a little bit of  
10 saturation and water in the gulch there between  
11 the two escarpments that contain that.

12 As I related to you in the field, I  
13 didn't find any marbled -- I kind of fully  
14 expected to find adults there, but didn't find  
15 them under maybe two dozen cover objects.

16 I did not spend time specifically  
17 interior to the wetland -- I'm sorry. Did I say  
18 wetland one? Flip that, yeah. Wetland five,  
19 rather.

20 Wetland, one I did not spend. We were  
21 focusing on particularly slimy salamander  
22 occurrences. So we worked the area on the  
23 easterly side of that, but not -- and in some  
24 areas that are jurisdictional wetlands, but not  
25 throughout the defined wetland because we didn't

1 expect to find slimy salamanders in the wettest  
2 recesses there in all likelihood.

3 DR. KLEMENS: And you agree, marbled  
4 salamanders are considered a vernal pool indicator  
5 species as per Calhoun and Klemens?

6 THE WITNESS (Butler): Yes.

7 DR. KLEMENS: Great. Let's direct your  
8 attention to sheet E-101 in the petition, dated 28  
9 July, 2017, illustrating the arrangement of the  
10 solar arrays.

11 Can you comment on the impacts to  
12 wetland one, both its biodiversity and wetland  
13 functions if in fact it's subsequently determined  
14 you have a cryptic vernal pool? Or in short,  
15 would this pool be as well protected as wetland  
16 five in terms of critical terrestrial habitat?

17 THE WITNESS (Butler): Are you asking  
18 just -- I was looking at this and trying to listen  
19 to you at the same time. Are you asking does it  
20 respect the guidelines?

21 DR. KLEMENS: I'm asking you, do you  
22 think that pool is as well protected as wetland  
23 five in terms of its critical terrestrial habitat  
24 based on the arrays that are shown in sheet E-101?

25 THE WITNESS (Butler): No, it doesn't

1 have the same horizontal offsets. It doesn't have  
2 as much buffering.

3 DR. KLEMENS: It doesn't have as much  
4 critical terrestrial habitat?

5 THE WITNESS (Butler): Right.

6 DR. KLEMENS: So you would assume that  
7 possibly that vernal pool is actually going to  
8 slip into the noncompliant status?

9 THE WITNESS (Butler): As a result of  
10 the -- yeah, proposed, yes. It wouldn't follow  
11 the guidance.

12 DR. KLEMENS: If wetland one is a  
13 cryptic vernal pool, which we've determined,  
14 wouldn't it be reasonable to expect that vernal  
15 pool indicator species using that wetland for  
16 breeding would heavily depend on the forested  
17 areas to the west of the pool that would be  
18 cleared as per sheet E-101?

19 THE WITNESS (Butler): Yes, that I would  
20 expect the species utilizing -- the terrestrial  
21 species using that pool to radiate out in  
22 virtually all directions including to the west  
23 where the proposed area is.

24 DR. KLEMENS: Can you comment on the  
25 effects that vernal pool amphibian larvae have

1                   upon nutrient cycling and energy transport within  
2                   the forest biome?

3                   THE WITNESS (Butler): The amphibian --  
4                   well, the larvae -- post metamorphosis? You mean,  
5                   the larvae don't have a tremendous -- they cycle  
6                   within the wetland system. Are you speaking  
7                   specifically of terrestrial impact?

8                   DR. KLEMENS: I'm asking within the  
9                   larvae, which is the aquatic amphibian larvae,  
10                   what effect will they have upon nutrient cycling  
11                   and energy transport within the forested biome?

12                   THE WITNESS (Butler): The last word you  
13                   said, the forested?

14                   DR. KLEMENS: Forested biome? I'm  
15                   sorry.

16                   THE WITNESS (Butler): Okay. Biome.  
17                   Yeah, their primary influence on energy and  
18                   nutrient cycling is post metamorphic.

19                   I mean, unless I may be missing  
20                   something that you're asking, but I mean, it  
21                   certainly has a significant impact on the energy  
22                   cycling in the terrestrial environment after they  
23                   leave, more so after they leave the pond as  
24                   metamorphosed adults, but that doesn't seem like  
25                   what you're asking.

1 DR. KLEMENS: Well, yes, in a way it is.

2 So where is that energy actually obtained from?

3 THE WITNESS (Butler): From the nutrient  
4 systems within that wetland, transported out into  
5 the terrestrial environment and cycled back.

6 DR. KLEMENS: Correct. Correct.

7 Are you aware of the River Sound court  
8 case here in Connecticut as it pertains to  
9 implications for vernal pool conservation and as  
10 it pertains specifically to the quality of water  
11 within a wetland?

12 THE WITNESS (Butler): I would have to  
13 admit only tangentially. I believe I recall it  
14 being discussed at one of the Connecticut wetland  
15 scientist meetings that I attended, but I don't --  
16 I couldn't elaborate on it.

17 DR. KLEMENS: Because where I'm going  
18 with this is we had a huge number of wood frogs we  
19 saw in that pool today. We saw 20. We saw  
20 adults, subadults.

21 If those wood frogs suffer a significant  
22 population decline because of the loss of forested  
23 habitat under the arrays on sheet E-101, can we  
24 anticipate changes in the water chemistry and  
25 nutrient levels in wetland one as per the findings

1 of River Sound?

2 THE WITNESS (Butler): Yes, there will  
3 be cycling of amphibian, protein, could be  
4 whatever. Calories will be affected.

5 DR. KLEMENS: So we may have more  
6 nutrification of the wetland because of the  
7 potential loss of those wood frogs?

8 THE WITNESS (Butler): That's possible.  
9 I don't know that it would be eminently measurable  
10 without some real fine scaled analysis, but it's  
11 certainly possible, yes.

12 DR. KLEMENS: But just to wrap up,  
13 basically the vernal pool is not going to have the  
14 level of protection of wetland five?

15 THE WITNESS (Butler): Yeah, I think  
16 that's evident from the --

17 DR. KLEMENS: And it may be  
18 measurably -- have higher biodiversity values. We  
19 have marbled salamander in there. We also found  
20 four-toed salamanders in there and wood frogs. So  
21 in fact it may be a much more valuable vernal pool  
22 resource than wetland five potentially?

23 THE WITNESS (Butler): Yeah, wetland --  
24 wetland five is not a vegetative wetland. It's  
25 more of a basin, you know, a trough that collects

1                   organics, but there's not a tremendous amount of  
2                   vegetation in that. There is more --

3                   DR. KLEMENS: Structural complexity in  
4                   that particular wetland?

5                   THE WITNESS (Butler): That's more of a  
6                   pool. This is more of a forested wetland or shrub  
7                   wetland.

8                   DR. KLEMENS: Thank you.

9                   Okay. The last set of questions is  
10                  going to deal with slimy salamanders, which is a  
11                  state threatened species. And I understand you  
12                  were only made aware of the presence of slimy  
13                  salamanders in July.

14                  Today on the site walk we uncovered a  
15                  small, jet black salamander that disappeared in  
16                  the duff layer with rapid, sinuous movements. Now  
17                  you said it might be a lead-face. Could it also  
18                  have been a juvenile slimy salamander?

19                  THE WITNESS (Butler): It could have,  
20                  yeah. It was a slender and a very rapid motion.  
21                  So, yeah.

22                  DR. KLEMENS: Okay. Can you detail your  
23                  experiences with locating slimy salamanders at  
24                  their northeastern range limit in Western  
25                  Connecticut?

1                   THE WITNESS (Butler): I have not  
2                   observed them in Northwestern Connecticut. I have  
3                   observed them in southeastern New York and New  
4                   Jersey, Ramapo, Mahwah, Orange, Rockland County  
5                   area and the further south in that, kind of the  
6                   heart of their range.

7                   DR. KLEMENS: Okay. Now bulletin 112,  
8                   which is administratively noticed in this  
9                   proceeding, talks about what happens to slimy  
10                   salamanders and their habitat specialization when  
11                   one gets to the areas you're speaking of.

12                   Basically you're talking west of the  
13                   Hudson River. It's really, as I understand it --  
14                   and maybe we should have you ask the question, but  
15                   they're much more widespread and generalized  
16                   there?

17                   THE WITNESS (Butler): Correct.

18                   DR. KLEMENS: So we're dealing in fact  
19                   with a species that is not rare throughout most of  
20                   its range, but is potentially of range edge here  
21                   in Western Connecticut?

22                   THE WITNESS (Butler): That's accurate,  
23                   yes.

24                   DR. KLEMENS: Can you provide the dates  
25                   and details of the areas searched for slimy

1 salamanders on the site? And certainly you can  
2 provide that at the continuation if you wish.

3 THE WITNESS (Butler): Yes, I can give  
4 you a synopsis verbally without pointing to  
5 diagrams. We searched on the 12th, I believe, of  
6 September, searched a broad area including the  
7 northern, the whole northern portion of the site,  
8 which is -- much of which is a portion beyond the  
9 array. That's the most steeply sloped and mature  
10 forested habitat on the site.

25 | And to the west there's a bluff near the

1 property line on the northwest site that we also  
2 counted -- observed.

3 DR. KLEMENS: When you talk about the  
4 400 cover objects -- and I know this may be  
5 parsing things a bit and you may want to go back  
6 to your notes -- how many of those were small  
7 logs?

8 How many of those were big, and logs  
9 broken apart, and how many of those were embedded  
10 talus, like the rock we lifted up at the wetland?

11 THE WITNESS (Butler): I didn't -- I  
12 didn't discriminate on those parameters. Any  
13 object that was -- if it had a suitable -- if an  
14 object was, upon being lifted up and it was void  
15 and, you know, air space underneath and there was  
16 no -- no chamber there, I wouldn't -- wouldn't  
17 include that as a possibility.

18 But downed logs, there's a number of  
19 downed logs there from either prior forestry  
20 activities or just people cutting logs to clear  
21 the trails. So we rolled many logs. We split  
22 some of the logs that were in piles there, you  
23 know, all that kind of standard methodology, but I  
24 didn't account for the dimensions of the cover  
25 objects we turned, yes, specifically.

1 DR. KLEMENS: I think I've already asked  
2 you to comment on the value of the interconnects  
3 to the lease area's talus slopes and cliffs to  
4 support slimy salamanders, but what would the  
5 clearing of the interconnected leaks area do to  
6 slimy salamanders living in that portion of the  
7 site?

8 THE WITNESS (Butler): If they're  
9 present there, which we haven't -- I fully  
10 expected given that kind of a landscape that we  
11 would be -- find some representation. I didn't  
12 expect a large showing of specimens, but I  
13 expected with a level of effort -- and the  
14 conditions are not particularly dry conditions.

15 We went in there with the expectation of  
16 finding them. And we were, you know, and myself  
17 and Scott Smyers who did the work with me, when  
18 they're targeted on the survey like that you're  
19 somewhat disappointed when you don't find the  
20 charge, find the target.

21 In that area, if they're present -- and  
22 the same thing. We did work that slope. I didn't  
23 finish my assessment. On the second foray out  
24 there we worked that area and proceeded down to  
25 the reservoir outlet, up in that.

1                   So we spent quite a bit of time in there  
2 covering -- turning cover objects without any  
3 successful determinations. I think I found a  
4 single red back salamander in that area on last  
5 Friday, it was.

6                   So to answer your question, though,  
7 is -- if you open up the canopy there, there will  
8 be impacts on the microhabitat at the ground level  
9 within and beyond the corridor. I don't think  
10 it's going to be an exponential spread of  
11 influence that is -- is felt, let's say, in the  
12 underground or the near ground community, but  
13 there will be alteration to the microclimate  
14 within the corridor or in the chase, which I think  
15 is what you're asking.

16                  DR. KLEMENS: And you have alluded to  
17 the fact, and I agree with you, that the dryness  
18 of this particular end of summer is not the  
19 optimal time to detect slimy salamanders.

20                  THE WITNESS (Butler): No, but I was  
21 surprised that even at higher elevations, which  
22 many of the stones that we turned were, you know,  
23 in or embedded around moist sphagnum moss. So the  
24 active ground conditions weren't parched.

25                  If we turned a cover object and it's a

1 parched environment underneath, you know there's  
2 no -- virtually no likelihood of finding a slimy  
3 salamander or most of the other salamander  
4 species, but I wouldn't say it was anything on par  
5 with the 2016 summer conditions, at which time I  
6 think it would have been futile to look.

7 DR. KLEMENS: When is the optimal time  
8 for capturing the slimy salamanders in  
9 Connecticut?

10 THE WITNESS (Butler): Optimal is  
11 probably the May to June period, but there's  
12 certainly records, as you'd be aware of, into  
13 October of captures, and including a number of  
14 records in September.

15 DR. KLEMENS: So in bulletin 112, which  
16 is administratively noticed as item number 60, I'm  
17 going to read you one very quick thing and I'm  
18 going to ask you to comment on the impacts of  
19 this.

20 In New Fairfield's Pootatuck State  
21 Forest a small patch of mature forest was located  
22 in a steep rocky duff covered slope. This mature  
23 forest has not been logged for some time, possibly  
24 due to rocky terrain. It was surrounded by much  
25 younger forest and a very thin duff layer.

1                   A nearby clear-cut area was in the  
2 process of reforestation primarily from saplings.  
3 Although plethodontids was readily collected in  
4 the patch of mature forests, intensive searching  
5 of both the young forest and clear cut did not  
6 yield any specimens, although both plethodontidae  
7 and notophthalmus viridescens were found.

8                   So reflecting upon what I had just read,  
9 can you explain how you would mitigate forest  
10 clearing of slimy salamander habitat as discussed  
11 in page 9 of the prefilled testimony?

12                   THE WITNESS (Butler): And as you might  
13 imagine, I've recently reread that, that passage  
14 as well. So it's not a surprise, but I just want  
15 to check page 9.

16                   I believe what I heard over there is --  
17 our suspicion would be, or my suspicion would be  
18 that the species is more affiliated with the more  
19 rocky slope areas. The majority of it, if you  
20 want to cut it into two categories of steep,  
21 rocky, talus forest and more mesic forest, the  
22 majority of the array is proposed for the more  
23 level ground, as you might expect just for  
24 logistic purposes and solar exposure.

25                   So the impacts clearly to a mature

1 forest is going to diminish salamander habitat,  
2 the slimy salamander habitat as well as red back,  
3 at least in the acute phase.

4 So your question, the presumption is the  
5 higher value habitats, at least from what I  
6 understand of the site now after two visits and a  
7 number of -- scrutiny of GIS materials and other  
8 investigations, the higher value habitat is going  
9 to be on the periphery of the site and the  
10 northerly portion of this site simply due to the  
11 aspect and the maturity of the forest and the  
12 underlying substrate.

13 They're not necessarily excluded from a  
14 means of forest, and as we've said elsewhere,  
15 through the range that's more where you're  
16 trying -- you -- they don't have such rigid,  
17 seemingly rigid habitat requirements. But all the  
18 evidence that I've gathered and that you've  
19 reported on seems to indicate that they, in this  
20 extreme edge of the range, they are bound with the  
21 more, which I am assuming, bound with the more  
22 steep sloped habitat, which I assume has to do  
23 with the land-use history.

24 The species probably is not very good at  
25 recolonizing the property that's been deforested,

1                   or otherwise manipulated because they aren't a  
2                   wide-ranging species, animals, individuals.

3                   So the assumption is here -- is we don't  
4                   yet know -- at least I didn't know at that time if  
5                   we actually had slimy salamander here. It was  
6                   speculative. It was not directly mapped. The  
7                   information from NDDB, or DEEP was that this has  
8                   been marked as potential habitat based on the  
9                   Route 7 mitigation field study, or landscape  
10                  study.

11                  So we didn't observe the animals. We  
12                  had no empirical evidence that they're present.  
13                  And the presumption on my part would be if they  
14                  are present in some minor occurrences on the site,  
15                  it would be in the more heavily soaked habitat.

16                  DR. KLEMENS: So it would be possible  
17                  for this site to actually create some sort of map  
18                  of where you think the prime slimy salamander  
19                  habitat might be based on these parameters?

20                  THE WITNESS (Butler): Yes, and we're  
21                  working on a rational analysis based on a specific  
22                  objective.

23                  DR. KLEMENS: And then that leads to my  
24                  next question. If you located slimy salamanders,  
25                  or what you feel to be slimy salamanders habitat,

1           how large a buffer zone would you need to place  
2           around it to protect the integrity of that habitat  
3           from dessication, sunlight, invasive plants and  
4           other impacts?

5                   So let's say for argument's sake you  
6           create the map. You have some matrix. You say,  
7           these are areas we have determined to be, based on  
8           the literature and field surveys, slimy salamander  
9           habitat. You could then map these and then you  
10           could draw a buffer around them. And how big or  
11           how large would that buffer be?

12                   THE WITNESS (Butler): So how big should  
13           that buffer -- to have as immeasurable as, you  
14           know, impact? Is that --

15                   DR. KLEMENS: Well, minimize the impact  
16           to the maximum extent practicable within the  
17           operations of this project.

18                   THE WITNESS (Butler): I would pull a  
19           number -- and I haven't dwelled on this, but a  
20           hundred-foot part where you have an attached  
21           forest would certainly be a significant buffer.  
22           And that's just a, kind of a default number that's  
23           used, you know, in many applications.

24                   That would not be an absolution or any  
25           offsite influence. As you get into a hundred feet

1 of forest you're at least starting -- you're  
2 getting the microclimate conditions of the forest  
3 denuded from the exterior, but not completely  
4 ablated, if you will.

5 Ideally it would be, you know, infinite  
6 or it would be extremely large for -- a fairly  
7 highly precautionary measure, but in the interest  
8 of reality, a realistic buffer is somewhere in the  
9 hundred-foot range.

10 DR. KLEMENS: And I'm getting to the  
11 last questions. What is the effect of  
12 populations -- and you've sort of touched on  
13 this -- of the species in fragmented versus core  
14 forest habitat at its northeastern range limit?

15 THE WITNESS (Butler): What is the --

16 DR. KLEMENS: The effect of  
17 fragmentation of forest. Can one anticipate that  
18 forest fragmentation is a bigger problem for this  
19 species and its range limit than, let's say, would  
20 be in the site you spoke of west of the Hudson  
21 River?

22 THE WITNESS (Butler): Yes, most of the  
23 recent occurrences are in relatively intact  
24 forested environments that I'm aware of, and  
25 you're certainly aware of more than I am.

1 DR. KLEMENS: I can't testify.

2 THE WITNESS (Butler): So yes, must --  
3 most of the current occurrences in Southwestern  
4 Connecticut are in large areas that are core  
5 forest.

6 DR. KLEMENS: And could you comment on  
7 the likelihood of slimy salamanders? You touched  
8 on this earlier, but I want to go back to it.  
9 Would you be able to repopulate the site after the  
10 decommissioning of this project?

11 THE WITNESS (Butler): I don't know  
12 empirically, as I said. But given the species'  
13 biology and the home range data that I am aware  
14 of, is not a big mover. Unlike the salamanders  
15 that are prone to, you know, seasonal migrations  
16 and so forth, these animals do their entire  
17 lifecycle in a finite niche.

18 So unless the population pressure is so  
19 great that they need to burgeon outward, I think  
20 they're slow to -- and I think that's why their  
21 range is apparently limited to the two counties in  
22 Connecticut. If they were more capable to  
23 disperse, there's certainly more habitat out there  
24 than there are occurrences.

25 DR. KLEMENS: And I think that that is

1 an accurate statement which leads me to my final  
2 question that, how can one effectively consider  
3 protection of these threatened species when you  
4 have as of yet not been able to locate them on  
5 site despite the fact they've been recently  
6 documented in forested portions of Candlewood  
7 Mountain? And we likely encountered a small one  
8 today that escaped in the duff layer.

9 How can we create a plan for this site  
10 that adequately protects this threatened species?

11 THE WITNESS (Butler): The current plan,  
12 as I said, the current plan avoids most of the old  
13 growth -- not old growth, but heavily mature  
14 growth talus forest. So that's -- that's the main  
15 component of our minimization strategy for  
16 impacting the species, assuming it's present.

17 And it's seemingly -- based on  
18 discussions earlier, it seems like the species may  
19 in fact be empirically present, not just  
20 speculatively present on the site.

1                   essentially our avoidance, is that the primary  
2                   habitat is not being affected directly with a  
3                   direct impact. Just there will be buffer zone  
4                   spillover, but most of the habitat is not talus  
5                   forest.

6                   DR. KLEMENS: Next I have a couple of  
7                   requests. And I think the Chairman said part of  
8                   the reason to get these questions out now was to  
9                   give you a chance to respond.

10                  My first request to you would be, can  
11                  you map the cryptic vernal pool, what you call the  
12                  lollipop, the depression section that we visited?  
13                  Can you map that?

14                  THE WITNESS (Butler): Yes, sir.

15                  DR. KLEMENS: And could you do the  
16                  Calhoun/Klemens analysis of the impacts of that so  
17                  we have some figures to work with, mindful that we  
18                  look at the depression as one impact?

19                  The envelope is the next sphere of  
20                  impact, and the 100 to 750 feet, the critical  
21                  pressure, that would be very helpful to understand  
22                  what the level of impact is and the extent of that  
23                  vernal pool.

24                  THE WITNESS (Butler): That can be  
25                  pretty readily mapped and confirmed, or it could

1           be defined.

2           DR. KLEMENS: Thank you. And could you  
3           also submit for the record -- because I didn't  
4           have any photographic medium with me. Could you  
5           please submit for the record the photographs of  
6           the marbled salamander and four-toed salamander  
7           that you took today, please?

8           THE WITNESS (Butler): Yes, we have  
9           those.

10           DR. KLEMENS: And we're going to try to  
11           make some attempt at creating a slimy salamander  
12           habitat map of the site of where you think the  
13           prime habitat is.

14           THE WITNESS (Butler): Yes.

15           DR. KLEMENS: And with an appropriate  
16           buffering, and lay that onto the development plan  
17           so we can assess the impacts of this forested  
18           clearing, forest clearing and development on this  
19           species. Those were my sort of three tasks I  
20           would like.

21           And that concludes my questions, and I  
22           thank you all for your patience.

23           THE CHAIRMAN: Thank you, Dr. Klemens.

24           Mr. Harder.

25           MR. HARDER: Yes. Thank you, Mr.

1 Chairman.

2 I had one question to follow up to Dr.  
3 Klemens' earlier question that Mr. Walker  
4 responded to. You had said -- I think that you  
5 had entered into some contracts that prevent you  
6 from doing more lengthy investigation, I guess, on  
7 some of the wildlife issues that Dr. Klemens  
8 mentioned.

9 When were those contracts finalized?

10 THE WITNESS (Walker): It was in late  
11 spring of this year. We entered into the -- we  
12 signed those agreements ourselves. I'll have to  
13 double check the time, but I think it's February.  
14 And then it's up to the utilities.

15 We're negotiating with the other parties  
16 unrelated to us. They had agreements that they  
17 were signing, and they held up signing our  
18 agreements until they finalized all their other  
19 negotiations. They had completed the negotiations  
20 with us, and when they completed all the  
21 negotiations with, not only us which they had  
22 concluded -- I'll have to get you the exact time,  
23 the timeframe.

24 Then they signed all the agreements, but  
25 we were done in that around the February

1                   timeframe.

2                   MR. HARDER: And they specifically  
3                   required you to complete the project and start  
4                   generating power in a timeframe that would prevent  
5                   you from doing the more extensive studies that Dr.  
6                   Klemens mentioned earlier?

7                   THE WITNESS (Walker): We -- we have  
8                   to -- correct me if I'm wrong. We have to have  
9                   the construction done between the spring to fall,  
10                   trying to get into 2018, sometime in 2018?

11                   MR. HARDER: I'm sorry. I didn't hear  
12                   that?

13                   THE WITNESS (Walker): By the end of  
14                   2018.

15                   MR. HARDER: Completion of construction?

16                   THE WITNESS (Walker): Completion of  
17                   construction. We can give you a full schedule,  
18                   which I don't have off the top of my head, but we  
19                   could submit that.

20                   MR. HARDER: I had a few questions that  
21                   relate to the environmental assessment, and a  
22                   couple that relate to the storm water management  
23                   plan.

24                   First of all -- and some of this is  
25                   informed, I guess -- or was informed a little bit

1 by the discussions or comments during our tour  
2 today. The first one concerns the presence of  
3 bedrock.

4 One place in the environmental  
5 assessment it says, shallow to bedrock -- is  
6 there, another phrase, another place. And the  
7 environmental assessment says, bedrock is not  
8 anticipated.

9 Based on comments I heard earlier today  
10 during the tour, I assume that the not-anticipated  
11 phrase somehow is not appropriate. I'm assuming,  
12 and also just observing the site, but in some  
13 areas bedrock will be present at shallow enough  
14 depths that you will have to deal with it. On  
15 page 1 it said, not anticipated. Page 16, the  
16 phrase "shallow to bedrock" is used.

17 THE WITNESS (Bukowski): Yeah. Looking  
18 back at the EA, the phrase that we wrote was,  
19 bedrock is not anticipated to be encountered given  
20 the minimal subsurface disturbance required.  
21 And -- however, if bedrock is required it will be  
22 drilled to accommodate the proposed facility.

23 So as we mentioned before there will be  
24 grounds crews that, you know, do have to penetrate  
25 into the bedrock that we saw there, but I think

1 what this is really saying is there's not going to  
2 be a lot of earthwork or you know, substantial  
3 amount of deep trenching that would, you know,  
4 require substantial bedrock.

5 THE CHAIRMAN: Mr. Lynch?

6 MR. LYNCH: I have a followup to the  
7 previous question, but I have one here, too. If  
8 you discover bedrock, did I hear you say it will  
9 be drilled and not blasted?

10 THE WITNESS (Bukowski): Correct.

11 MR. LYNCH: I'll get back to the others  
12 later.

13 MR. HARDER: There's terms used in, I  
14 guess through the whole petition that concerns me  
15 a little bit, terms like commitments or make  
16 statements to do certain things if required or if  
17 practicable, especially the "if practicable" term  
18 I guess makes me a little nervous.

19 The first example I'll refer to is page  
20 18 of the environmental assessment concerns  
21 application of pesticides or herbicides, where you  
22 talk about the application of pesticides and  
23 herbicides is required.

24 And I guess my question is, is there  
25 anything that would prevent you from committing to

1 not using pesticides or herbicides at all? And if  
2 you can't commit to that, what are those  
3 situations where you feel it would be required?

4 THE WITNESS (Lindsay): We don't  
5 typically use pesticides or herbicides. I would  
6 say -- and Mr. Walker can correct me if I'm wrong.  
7 We do not have any intention of using them in the  
8 operation of the project.

9 MR. LYNCH: Mr. Lindsay, could you  
10 please speak up?

11 THE WITNESS (Lindsay): We have no  
12 intention of using that. I don't see any reason  
13 why we would do that.

14 MR. HARDER: Okay. So you could perhaps  
15 adjust that part of the petition?

16 THE WITNESS (Lindsay): We should  
17 clarify that then we have no intention of using  
18 them and we don't -- have never used them.

19 MR. HARDER: Thank you.

20 I guess the only -- I might have a  
21 couple questions in this area, but concerning the  
22 wetlands separating distances. I'm concerned  
23 especially in areas where there are some steep  
24 slopes that you're going to be, at a minimum,  
25 removing trees in areas fairly close to steep

1           slopes, very close, fairly close to the wetland  
2           areas.

3           And I'm wondering, what's your basis for  
4           the separating distances you've chosen? I'm sure  
5           you're aware of the Town of New Milford's wetland  
6           rules require/establish a separating distance of a  
7           minimum of a hundred feet, at least in terms of  
8           establishing an upland review area. Other towns  
9           in Connecticut have -- actually have a larger  
10           separating distance.

11           So I'm wondering just generally if you  
12           can tell us what your thinking was there and why  
13           you have certain areas, why you have activity in  
14           certain areas including the clearing of trees and  
15           other things. I'm especially concerned in areas  
16           where there's drainages swales, upgrading of  
17           wetland areas.

18           And then one other specific point, and  
19           this is actually in the storm water management  
20           plan, sheet 9 of 14 shows the connecting -- the  
21           route of the connecting cables or wires. It  
22           almost looks like somebody tried to follow the  
23           route of the wetlands.

24           The wetlands kind of exist in almost a  
25           zigzag pattern and it almost looks like somebody

1           attempted to deliberately follow the route of the  
2           wetlands. I'm sure that wasn't the case, but it  
3           does in that one section, anyway. It follows the  
4           route of the wetlands fairly closely.

5           So I'm wondering what alternatives you  
6           looked at, especially for a situation like that  
7           more generally. You know, what alternatives do  
8           you look at, did you look at when looking at the  
9           separating distances and establishing, you know,  
10           an upland review area?

11           So if you could answer that?

12           THE WITNESS (Chan): Well, I can state  
13           with respect to the interconnect route the  
14           alignment of the route actually was reconfigured  
15           to minimize the crossings of wetlands and also to  
16           maximize following existing cleared corridors.

17           There's a road that runs along there.  
18           There's an existing fiber-optic line, and we're  
19           following those corridors to the maximum extent  
20           that we can on the interconnect route. And -- and  
21           also avoiding the wetlands, the direct impacts to  
22           the wetlands wherever possible on the interconnect  
23           corridor.

24           So it was actually redesigned to avoid  
25           direct impacts to the wetlands, but those, we had

1 existing road and that existing fiber-optic  
2 corridor are there. And so we wanted to follow  
3 that rather than creating yet another cleared  
4 corridor through that area.

5 With respect to the site design I'm  
6 going to ask Rob to address that, other than it  
7 was an overriding goal to avoid any direct impacts  
8 to the wetlands on the site.

9 THE WITNESS (Bukowski): So what we  
10 tried to do with the site design and the array  
11 design is making it as compact as possible to try  
12 to, you know, keep it as far away as we could from  
13 the wetlands areas given the size of the array.

14 MR. HARDER: I guess that kind of gets  
15 to my next question. Is it fair to assume that  
16 the main factor, maybe the only factor in deciding  
17 how far or how close the arrays and other  
18 activities could come to the wetland areas was the  
19 amount of power that you would generate?

20 In other words, the further away that  
21 the system is from the wetland, the less power you  
22 generate?

23 THE WITNESS (Lindsay): In general, I  
24 mean, yes, we have a certain minimum size of  
25 system that we have to build and so that's a

1 factor in terms of trying to fit that within an  
2 envelope that has the most -- that minimizes the  
3 impact on any adjacent areas. So --

4 MR. HARDER: Did you conclude that in  
5 your evaluation of the site is there a size of a  
6 system that you -- a minimum size of the system  
7 that you would need to construct to make it a  
8 viable project?

9 THE WITNESS (Lindsay): There's a  
10 minimum AC size that we need to have in order to  
11 comply with our contractual requirements.

12 MR. HARDER: What is that size?

13 THE WITNESS (Lindsay): That's 20  
14 megawatts.

15 MR. HARDER: So the system you're  
16 proposing is the minimum?

17 THE WITNESS (Lindsay): That's correct.

18 MR. HARDER: A couple other questions on  
19 the storm water management plan. They kind of  
20 alluded to these. You referred to steep slopes.  
21 You talk about steep slopes and other issues  
22 related to steep slopes.

23 Do you have a definition or a cutoff for  
24 what a steep slope is, and does that affect, you  
25 know, if you encounter a steep slope in a certain

1 area, does that tell, you know, we can't do this  
2 or we can't do that?

3 THE WITNESS (Bukowski): The racking  
4 that Ameresco is proposing to use has a maximum  
5 tolerance of ten degrees per slope.

6 MR. HARDER: Okay. So there will be no  
7 arrays in the areas greater than a ten-degree  
8 slope?

9 THE WITNESS (Bukowski): Correct. There  
10 there's very minimal grading proposed, so there  
11 are some localized steep spots that will need to  
12 be leveled out a little bit. But other than that,  
13 you know, they're staying -- keeping it away from  
14 the slopes that are ten degrees or greater.

15 There is a portion on the northern end  
16 where it slopes to the south that I believe the  
17 racking can go a little bit more than ten degrees,  
18 but for the most part ten degrees is the criteria.

19 MR. HARDER: That just adds to my  
20 confusion, I guess, a little bit there. And  
21 perhaps some of these notes or some of the points  
22 I'm referring to here are out of context a little  
23 bit.

24 But in the storm water management plan,  
25 page 2, I think there's a comment that said -- it

1           talks about grading and regrading, and a range of  
2           slopes in the order of 3 to 25 percent would be  
3           retained.

4                   So I guess maybe I should expand my  
5           question, not just for those areas where you're  
6           proposing to install the arrays, but just in  
7           general where you'll be clearing trees, doing any  
8           work.

9                   Are any of those steeper sloped areas up  
10           to 25 percent? There was also a comment made that  
11           erosion control blankets will be used for slopes  
12           greater than or equal to 33 percent. So I guess  
13           my question is, what activities do you see  
14           occurring in those really steep areas?

15                   THE WITNESS (Bukowski): So I think in  
16           the steep parts, and I'd have look back at the  
17           plans, but it would just be tree clearing.

18                   MR. HARDER: Back to the term I  
19           mentioned earlier about doing things if  
20           practicable. I think on page 2, again also there  
21           was a comment about stockpiles will be avoided on  
22           steep slopes if practicable. I think it was  
23           stockpiles near the roads and I can understand, I  
24           guess, a little bit more so, but you know, it  
25           might be impracticable to avoid a steeper area

1 with a road because you have to get from here to  
2 there.

3 But for stockpiles I would think that if  
4 it's a steep area it presents problems, you know,  
5 increased concerns about erosion. Don't put the  
6 stockpile there. You know, put it somewhere else.  
7 So you know, again I'm concerned.

8 I mean, sitting here now we could all  
9 agree, well, maybe that's, you know, it's not  
10 practicable to put it there, but when you  
11 transition to the field, and schedules are getting  
12 tight and people are trying to work fast and  
13 regulators aren't around, practicable might mean  
14 something different.

15 So for something like stockpiles why  
16 would you think that it would not be practicable  
17 somewhere else?

18 THE WITNESS (Bukowski): I think that  
19 statement is really towards the end of  
20 construction. So you know, based on the size of  
21 the array the, plan is to use the footprint within  
22 the array for staging and stockpiling as  
23 necessary.

24 But as we work out and space gets more  
25 limited we may be looking for other places to put

1 stockpiles, but I agree. Stockpiles on steep  
2 slopes is really not practical.

3 MR. HARDER: There were, I think, some  
4 conflicting notes on the width of the access road  
5 and maybe it was because it's wider in certain  
6 areas. But one place of notation, it mentioned  
7 that it was 16 feet. Another one mentioned twelve  
8 feet. Is it varied in width, or who's gone wrong?

9 THE WITNESS (Bukowski): It varies  
10 somewhat to accommodate the -- the turning radius  
11 that we looked at, but we're -- we're still in the  
12 process of finalizing those plans. So that will  
13 be clarified in the -- in the final submittal.

14 MR. HARDER: Okay. Thank you. That's  
15 all I have. Thank you.

16 THE CHAIRMAN: Okay. Thank you.

17 Mr. Hannon.

18 MR. HANNON: Thank you, Mr. Chairman.

19 Just to follow up on a question that was  
20 raised earlier about pesticides. With the  
21 clearing that is being proposed on site, what kind  
22 of plan do you have to manage invasive species?  
23 And would any type of pesticides or herbicides  
24 need to be used to control invasive species?

25 THE WITNESS (Walker): We know that the

1                   grass gets mowed periodically, maybe once a season  
2                   or twice a season, and that, that's how we manage  
3                   it. We don't use herbicides or pesticides.

4                   MR. HANNON: That's the area in between  
5                   the panels. Correct? I mean you've got some  
6                   perimeter areas, too, that are being cleared  
7                   because of shading issues. So I'm just trying to  
8                   make sure I understand how the whole site is being  
9                   handled.

10                  THE WITNESS (Walker): We -- we look to  
11                  Amec to tell us exactly how to do it, but I don't  
12                  envision herbicides or pesticides in use. There  
13                  will be a mechanical -- it will be a mechanical  
14                  clearing.

15                  MR. HANNON: Well, part of the reason  
16                  I'm asking is, for example, Eversource has a  
17                  program where they will go out. They will trim  
18                  trees, but they will actually apply certain  
19                  things. It may be painted onto the stump that's  
20                  left to try to help kill it.

21                  So I'm just trying to make sure that  
22                  we're all talking about the same thing here.

23                  THE WITNESS (Walker): I don't envision  
24                  it, unless Amec envisions it.

25                  MR. HANNON: Just some general

1           questions. I think I calculated it, but based on  
2           the 30-foot width of the transmission line, it's  
3           roughly about 64, 65 hundred linear feet that's  
4           being cleared? And just trying to work back from  
5           the 4 point -- was it 3 acres of cleared area,  
6           30-foot wide, you know?

7                   THE WITNESS (Lindsay): It's not that  
8           amount of clearing. There, there's  
9           considerable -- and we would have to refer back to  
10           get exact numbers, but in terms of linear feet,  
11           that's more the total linear feet of the  
12           interconnection run.

13                   A good portion of the interconnection  
14           run is along the existing access road when you're  
15           on the 1st Light property. So it's -- it's --  
16           there may be -- and we would -- would do this in  
17           conjunction with 1st Light also, but there might  
18           be a little bit of trimming along one side along  
19           the road, but it wouldn't be -- it wouldn't be  
20           clearing in any significant amount along the whole  
21           length of the -- of the access road.

22                   And also it turns off of the access road  
23           and goes along an existing cleared area for a  
24           fiber-optic line. So we're going to go along the  
25           same area. Obviously we have to coordinate to

1 make sure that we don't interfere with the  
2 fiber-optic line. But that is what we've got  
3 arranged with 1st Light.

4 So that area, again has already been  
5 cleared. There may be some -- there may be  
6 some -- some trimming that would go on in that  
7 area, but not clearing.

8 MR. HANNON: The reason I'm asking is  
9 because on page 26 of the application it  
10 specifically states, the total estimated tree  
11 clearing for the interconnection route is 4.3  
12 acres.

13 Well, if you're 30 feet wide, and you  
14 crunch the numbers and it looks at though it's  
15 about 6200 feet. You telling me that it's not  
16 because there's the other area. So is it less  
17 than the 4.3 acres that's being cleared for the  
18 transmission line?

19 THE WITNESS (Lindsay): I -- I should  
20 check. And I should -- maybe I'll defer to Pam.  
21 Maybe I'm incorrectly stating it.

22 THE WITNESS (Chan): I believe that the  
23 4.3 acres came from looking at what we expected to  
24 be clearing along that entire corridor, not  
25 recognizing that there were always -- already

1 portions of that corridor that were cleared for  
2 the road.

3           But I -- I would have to go back and  
4 double check exactly how that number was  
5 calculated. I believe it accounted for the fact  
6 that a portion of the corridor is already cleared,  
7 but I -- I would like to verify it.

8           MR. HANNON: That would be appreciated.

9           I guess another question is, I believe  
10 the poles that are being proposed are about 30  
11 feet high. I mean, I could be off on that, but  
12 the reason I'm asking about the height of the  
13 poles is because if the width of the clearing is  
14 30 feet, but yet the trees that are there are, as  
15 you mentioned earlier, are 60 to 70 feet, are you  
16 concerned about trees coming down and taking out  
17 the power lines to the substation?

18           THE WITNESS (Lindsay): There is some  
19 risk of that, but that's a typical amount that  
20 would be cleared and, you know, we would need to  
21 provide the necessary maintenance and repairs if  
22 that were to happen.

23           MR. HANNON: I want to ask you a little  
24 bit about the internal roadway that's proposed. I  
25 believe it's like twelve inches of gravel that

1                   you're proposing for the internal roadway.

2                   I guess my question is, typically  
3                   because what I've seen over the years is you have  
4                   a gently sloping hill and you cut a road or you  
5                   cut a trench in, sort of perpendicular to that  
6                   slope. That's now created sort of a new pathway  
7                   for water.

8                   So my question is, has anybody looked at  
9                   if you're putting in this road network, is that  
10                   going to intercept any water and either take it  
11                   away from the wetlands, or might it add to it?

12                   THE WITNESS (Bukowski): Is this for the  
13                   access road that goes up from Candlewood Mountain  
14                   Road?

15                   MR. HANNON: This is for the internal  
16                   roadway for the entire area.

17                   THE WITNESS (Bukowski): We're still  
18                   finalizing that. What we sometimes do is put in  
19                   cross culverts underneath the road so that ponding  
20                   doesn't happen above it.

21                   But yeah, we're still --

22                   MR. HANNON: I'm not saying ponding, but  
23                   I'm just talking about the change in direction of  
24                   flow, because if you have wetlands that have been  
25                   established for a while my understanding is some

1 of the forest area out there, you go back what?  
2 Sixty, 70 years it's been growing.

3 So you've got a certain topography  
4 that's out there at that point in time. Should  
5 you change that topography by putting in a road  
6 network? Even though it's only 12 inches deep  
7 with gravel, that is going to change the direction  
8 of the flow of some of the groundwater. So as a  
9 result has anybody looked at what may happen with  
10 where the water is currently going on the site and  
11 how that may be transferred into the --

12 THE REPORTER: I can't hear you.

13 MR. HANNON: Sorry. I'm trying to find  
14 out whether or not the roadway that is being  
15 proposed might change the direction of where some  
16 of the current water flows are.

17 THE WITNESS (Bukowski): Yeah. I'll  
18 have to look back at the final grading plans to  
19 confirm, but in general we're trying to keep the  
20 topography of the site the same. So if a  
21 twelve-inch thick road is required then, you know,  
22 the idea would be to excavate twelve inches of  
23 material out and put the road in.

24 MR. HANNON: On page, I guess it's page  
25 24 -- just a question. You talk about creating

1 over 250 construction jobs and over 30 operation  
2 jobs. What operation jobs?

3 THE WITNESS (Lindsay): You mean -- hold  
4 on.

5 MR. HANNON: Because I didn't think  
6 anybody was going to be on site, but just what I  
7 need clarification on.

8 THE WITNESS (Lindsay): What we did is  
9 we used the JEDI model, as we stated there. And  
10 that basically you put in the project parameters,  
11 the project size and it provides this, this  
12 output.

13 The -- in this case it's likely that the  
14 operation jobs won't be that amount. It will  
15 be -- operation is really fairly minimal, the  
16 needs of that, but there are needs to monitor the  
17 system even remotely. So there are a number of  
18 jobs, probably more like ten or less of people  
19 that are involved in monitoring a number of these  
20 systems.

21 So that there's, you know, there's also  
22 jobs related to the mowing and -- and the  
23 maintenance during, you know, during the growing  
24 season.

25 MR. HANNON: I mean, would surveyors

1 fall into that category, too?

2 THE WITNESS (Lindsay): Yes. There's a  
3 number of different categories. And the JEDI  
4 model is fairly generalized. So it's not  
5 necessarily always entirely, I mean, we provide it  
6 as a guideline, but it's, you know, the operation  
7 jobs for solar tend to be a little bit on the  
8 lesser side.

9 THE CHAIRMAN: We have a couple of  
10 followups. Dr. Klemens has one, and then  
11 Mr. Lynch.

12 DR. KLEMENS: Thank you, Mr. Chairman.

13 This gets me thinking probably another  
14 piece of information that I would like to request  
15 is that we have pre and post-construction water  
16 budgets for the two vernal pools. That would be  
17 wetlands one and wetlands five.

18 Thank you.

19 MR. LYNCH: With regard to the  
20 construction jobs, does Ameresco have a  
21 construction company or a construction company on  
22 call? Or will you put out an RFP?

23 THE WITNESS (Lindsay): We are not a  
24 construction company per se. We manage our  
25 project entirely and we would be putting out RFPs

1 for the work.

2 MR. LYNCH: So within the RFP some of  
3 Dr. Klemens' concerns and other panel members'  
4 concerns could be outlined in that RFP?

5 THE WITNESS (Lindsay): Yes,  
6 potentially.

7 MR. LYNCH: Thank you.

8 MR. HANNON: Okay. On page 25 I just  
9 want to get a clarification. You talk about area  
10 emissions and water consumption discharge. It's  
11 the statement, no water discharges of any kind  
12 during it's operational lifetime.

13 So I'm assuming -- well, actually I  
14 don't know what I'm assuming on that because it  
15 seems as though there is storm water that's going  
16 offsite. So what's your definition of water  
17 discharge?

18 THE WITNESS (Chan): We were speaking to  
19 wastewater discharges such as washing wastes,  
20 sanitary wastes. The storm water discharges are  
21 going to be consistent with what they are now.

22 MR. HANNON: Okay. That kind of goes  
23 with what my initial inclination was, but I just  
24 wanted to make sure that you were not referring to  
25 storm water with any type of wastewater discharges

1 because you don't say wastewater discharges.

2 THE WITNESS (Chan): I apologize for the  
3 lack of clarity.

4 MR. HANNON: And again, just so I think  
5 I understand. The way the land is currently set  
6 up there is a company that owns it. You are  
7 leasing it from them. At the end of the solar  
8 project that lease would expire and the current  
9 landowner would maintain ownership. Correct?

10 THE WITNESS (Walker): Of the land.

11 MR. HANNON: Correct. Okay. No, I just  
12 wanted to make sure, because there were some  
13 issues about, you know, comments that have come in  
14 about placing easements on it and things of that  
15 nature. I just wanted to make sure I understood  
16 that part of it.

17 Some of the questions that I had have  
18 been asked and answered. So I do have a question  
19 in a little bit more detail about the drilling  
20 that's being proposed as far as installing the  
21 posts. We've had a number of situations where  
22 people are coming in -- it's sort of a piledriver  
23 that puts the post in. We've had others where  
24 there's concrete, like on landfills, things of  
25 that nature. I'm not that familiar with this type

1 of material. And I think you also talked about a  
2 diamond tip drill and things like that.

3 So can you explain in a little bit more  
4 detail what this involves? Because my  
5 understanding is you're saying that the bedrock  
6 does not create a problem here. And you may also  
7 predrill some of these holes to make it easier to  
8 just drop the poles in. And I'm assuming then you  
9 backfill with some concrete?

10 THE WITNESS (Bukowski): So the way this  
11 system works is if they predrill the holes they  
12 drill, say, an inch and a half or so diameter  
13 hole. And then behind that they come in with a  
14 ground screw, and the plate on the ground screw is  
15 larger than the hole that they predrill. So it's  
16 really two holes. It's predrilling and then  
17 advancing the ground screw in.

18 MR. HANNON: Just a couple more. This  
19 is getting into some of the erosion sedimentation  
20 control measures. You talk about, you know, once  
21 you've got the final grading installed, and  
22 seeding.

23 Is that hydroseeding, or how did you do  
24 that?

25 THE WITNESS (Bukowski): Most likely. I

1 mean, that's to be determined. You know, Ameresco  
2 lines up their contractor. We can certainly work  
3 with them, but typically it's done with  
4 hydroseeding.

5 MR. HANNON: And just to make sure, I  
6 believe the way that you have laid out the phasing  
7 plan for the well is that there's subareas that  
8 are set up that are to be, I believe, 4.9 acres  
9 trying to keep everything in the 5 acres.

10 It talks about getting 80 percent  
11 stabilization of that upper area before you move  
12 into a lower area, but I guess given the time of  
13 year that some of this work may be done if it's  
14 done during the winter, how would you accomplish  
15 that?

16 THE WITNESS (Bukowski): So for that we  
17 would end up having to use some kind of temporary  
18 stabilization measures to, say, spray mulch or  
19 matting or something like that, something other  
20 than seed.

21 MR. HANNON: And the goal is to start  
22 from the higher elevation to the lower. Now could  
23 you be working different phases at different  
24 times? Because I mean, there are different  
25 elevations you could be starting just a little bit

1                   higher than what's in that full drainage area, but  
2                   I don't know if you'd be working on multiple  
3                   subareas at one time.

4                   THE WITNESS (Bukowski): Really the way  
5                   the phasing plan was set up was to add, like you  
6                   said, less than five acres draining to one common  
7                   drainage point. So some of the different areas,  
8                   that may drain into a different one.

9                   I mean, it's feasible to be working on  
10                  two of those at once, but in general the idea is  
11                  to work, you know, from the top down, but  
12                  ultimately they will have to be worked on with the  
13                  contractors. Some of those are related to means  
14                  and methods.

15                  MR. HANNON: I mean, it might take a  
16                  little bit of effort, but I don't think it's going  
17                  to be too much, but if you could possibly go back  
18                  and take a look at how you may be able, or if  
19                  you're able to go in and work different parts of  
20                  this site at the same time so there's a better  
21                  understanding as to what the phasing might be in  
22                  the different drainage areas?

23                  I think that does it for me.

24                  THE CHAIRMAN: The Council will now  
25                  recess until 6:30 p.m., at which time we'll resume

1           with the public comment session.

2           Thank you.

3

4           (Whereupon, the above proceedings were  
5           concluded at 4:57 p.m.)

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I hereby certify that the foregoing 99 pages are a complete and accurate computer-aided transcription of my original verbatim notes taken of the Regular Hearing in Re: PETITION NO. 1312, CANDLEWOOD SOLAR, LLC, PETITION FOR A DECLARATORY RULING THAT NO CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED IS REQUIRED FOR THE PROPOSED CONSTRUCTION, MAINTENANCE AND OPERATION OF A 20 MEGAWATT AC (26.5 MEGAWATT DC) SOLAR PHOTOVOLTAIC ELECTRIC GENERATING FACILITY LOCATED ON A 163 ACRE PARCEL AT 197 CANDLEWOOD MOUNTAIN ROAD AND ASSOCIATED ELECTRICAL INTERCONNECTION TO EVERSOURCE ENERGY'S ROCKY RIVER SUBSTATION ON KENT ROAD IN NEW MILFORD, CONNECTICUT, which was held before ROBIN STEIN, Chairman, at the E. Paul Martin Room, Roger Sherman Town Hall, 10 Main Street, New Milford, Connecticut, September 26, 2017.



Robert G. Dixon, CVR-M 857  
Notary Public  
BCT Reporting, LLC  
PO Box 1774  
Bristol, Connecticut 06011  
My Commission Expires: 6/30/2020

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I N D E X

2 WITNESSES

3 Brian Butler Page 8  
4 Pamela Chan  
5 Robert Bukowski  
6 Joel Lindsay  
7 James Walker

8 EXAMINERS:

9 Mr. Michaud Page 8  
10 Mr. Perrone Page 12

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