## In The Matter Of:

## STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

Petition No. 1310A February 4, 2020

BCT Reporting LLC 55 Whiting Street, Suite 1A Plainville, CT 06062 860.302.1876

Min-U-Script® with Word Index

| 1  | STATE OF CONNECTICUT                               |
|----|--|
| 2  | CONNECTICUT SITING COUNCIL                         |
| 3  |  |
| 4  | Petition No. 1310A                                 |
| 5  | Quinebaug Solar, LLC petition for a declaratory    |
| 6  | ruling, pursuant to Connecticut General Statutes   |
| 7  | Section 4-176 and Section 16-50k, for the proposed |
| 8  | construction, maintenance and operation of a 50    |
| 9  | megawatt AC solar photovoltaic electric generating |
| 10 | facility on approximately 561 acres comprised of   |
| 11 | 29 separate and abutting privately-owned parcels   |
| 12 | located generally north of Wauregan Road in        |
| 13 | Canterbury and south of Rukstela Road and Allen    |
| 14 | Hill Road in Brooklyn, Connecticut.                |
| 15 |  |
| 16 |  |
| 17 | Continued Public Hearing held at the               |
| 18 | Connecticut Siting Council, Ten Franklin Square,   |
| 19 | New Britain, Connecticut on Tuesday, February 4,   |
| 20 | 2020, beginning at 1 p.m.                          |
| 21 |  |
| 22 |  |
| 23 | Held Before:                                       |
| 24 | ROBERT SILVESTRI, Hearing Officer                  |
| 25 |  |

| 1  | Appearances:                             |
|----|--|
| 2  |  |
| 3  | Council Members:                         |
| 4  | ROBERT HANNON,                           |
| 5  | Designee for Commissioner Katie Dykes    |
| 6  | Department of Energy and                 |
| 7  | Environmental Protection                 |
| 8  | LARRY LEVESQUE, ESQ.,                    |
| 9  | Designee for Chairman Marissa P. Gillett |
| 10 | Public Utilities Regulatory Authority    |
| 11 | JOHN MORISSETTE                          |
| 12 | MICHAEL HARDER                           |
| 13 | DANIEL P. LYNCH, JR.                     |
| 14 |  |
| 15 | Council Staff:                           |
| 16 | MELANIE BACHMAN, ESQ.                    |
| 17 | Executive Director and                   |
| 18 | Staff Attorney                           |
| 19 |  |
| 20 | MICHAEL PERRONE                          |
| 21 | Siting Analyst                           |
| 22 |  |
| 23 |  |
| 24 |  |
| 25 |  |

| 1          | Appearances (Continued):                    |
|------------|---|
| 2          |   |
| 3          | For the Applicant, Quinebaug Solar, LLC:    |
| 4          | LOCKE LORD LLP                              |
| 5          | 20 Church Street                            |
| 6          | Hartford, Connecticut 06103                 |
| 7          | BY: DAVID W. BOGAN, ESQ.                    |
| 8          | KATHRYN E. BOUCHER, ESQ.                    |
| 9          |   |
| LO         | For The Connecticut Light and Power Company |
| L1         | d/b/a Eversource Energy:                    |
| L2         | CARMODY TORRANCE SANDAK HENNESSEY LLP       |
| L3         | 50 Leavenworth Street                       |
| L <b>4</b> | P.O. Box 1110                               |
| L5         | Waterbury, Connecticut 06702                |
| L6         | BY: MARIANNE BARBINO DUBUQUE, ESQ.          |
| L7         |   |
| L8         |   |
| L9         |   |
| 20         |   |
| 21         |   |
| 22         |   |
| 23         |   |
| 24         |   |
| 25         |   |

MR. SILVESTRI: Good afternoon, ladies and gentlemen. This hearing is called to order this Tuesday, February 4, 2020, at 1 p.m. My name is Robert Silvestri, member and presiding officer of the Connecticut Siting Council.

This evidentiary session is a continuation of the public hearing held on January 14, 2020 at the Brooklyn Community Center in Brooklyn. It is held pursuant to the provisions of Title 16 of the Connecticut General Statutes and of the Uniform Administrative Procedure Act upon a motion to reopen a petition from Quinebaug Solar, LLC for a declaratory ruling for the proposed construction, maintenance and operation of a 50 megawatt AC solar photovoltaic electric generating facility located generally north of Wauregan Road in Canterbury and south of Rukstela Road and Allen Hill Road in Brooklyn, Connecticut.

On December 5, 2019, the Council,

pursuant to a request filed by Quinebaug Solar,

LLC and the provisions of Connecticut General

Statutes Section 4-181a(b) reopened this petition.

A verbatim transcript will be made of this hearing and deposited with the Clerk's offices in the Towns of Brooklyn, Canterbury and

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Plainfield and the City of Norwich for the
1
2
    convenience of the public.
               We will proceed in accordance with the
3
    prepared agenda, copies of which are available on
4
    the table next to the door.
5
                I wish to call your attention to those
6
    items shown on the hearing program marked as Roman
7
8
    Numeral I.D., Items 20, 67, 85, 95 and 96.
9
               Does any party have an objection to the
    additional items that the Council has
10
    administratively noticed?
11
12
               MS. BARBINO DUBUQUE: Mr. Silvestri,
13
    Marianne Barbino Dubuque for Eversource. We have
    no objection.
14
15
               MR. SILVESTRI: Thank you.
16
               MR. BOGAN: Good afternoon, Mr.
17
    Silvestri. David Bogan along with Kate Boucher on
18
    behalf of the petitioner. We have no objection.
               MR. SILVESTRI: Thank you, counselor.
19
20
    And the other party I do not see in the room.
21
    Okay.
22
               Accordingly, the Council hereby
23
    administratively notices these items.
               We will proceed with the appearance of
24
```

25

the party, Eversource Energy.

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1
              Counselor, could you have your
2
    witnesses stand up?
3
              MS. BARBINO DUBUQUE: Yes.
                                        Please
4
    stand.
5
              MR. SILVESTRI: And Attorney Bachman,
6
    could you begin by swearing in the party's
7
    witnesses?
8
    ALI
           R. KARIMI,
9
    MICHAEL
                  P. LIBERTINE,
    STEPHEN MARIEN,
10
11
    ANUJ MATHUR,
12
    CHRISTOPHER P.
                               SODERMAN,
13
        called as witnesses, being first duly sworn
        by Ms. Bachman, were examined and testified
14
        on their oaths as follows:
15
16
              MS. BACHMAN: Thank you.
17
              MR. SILVESTRI: Thank you. You may be
18
    seated.
              Now, Attorney Dubuque, could you please
19
20
    begin by identifying the exhibits you have filed
21
    in this matter and verifying the exhibits by the
22
    appropriate sworn witnesses?
23
              MS. BARBINO DUBUQUE: Yes. Thank you.
24
              DIRECT EXAMINATION
              MS. BARBINO DUBUQUE: Good afternoon.
25
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```
1
    May I just introduce them quickly, the panel
2
    members, ask them to just introduce themselves and
    their title?
3
               THE WITNESS (Karimi): My name is Ali
4
    Karimi.
5
6
               MR. SILVESTRI: Please use the
7
    microphone.
8
               THE WITNESS (Karimi): Sorry. My name
    is Ali Karimi. I'm with Eversource Energy.
9
    the project engineer for this project.
10
11
               THE WITNESS (Libertine): I'm Michael
    Libertine. I'm the director of the environmental
12
13
    siting and permitting group at All-Points
    Technology. And I'm here consulting on the
14
    environmental portions of the application.
15
16
               THE WITNESS (Marien): Stephen Marien,
    lead engineer for transmission line and civil
17
18
    engineering at Eversource.
               THE WITNESS (Soderman): Christopher
19
20
    Soderman, Eversource Energy, interim director of
21
    transmission line engineering.
22
               THE WITNESS (Mathur): Anuj Mathur,
23
    Eversource Energy, project manager.
               MS. BARBINO DUBUQUE: Thank you.
24
                                                 We
    have three exhibits we'd like admitted into
25
```

```
evidence. And I'd like to start with Exhibit 1,
1
2
    Eversource Energy's request for party status,
    dated 12/23/2019. And I'll ask Mr. Mathur, are
3
    you familiar with the information as to
4
    Eversource's role set forth in Exhibit 1?
5
               THE WITNESS (Mathur): Yes.
6
               MS. BARBINO DUBUQUE: Are there any
7
8
    corrections, clarifications or additions relating
    to Exhibit 1?
9
               THE WITNESS (Mathur): No.
10
11
               MS. BARBINO DUBUQUE: To the best of
    your knowledge as to Exhibit 1, is the information
12
    in Exhibit 1 true and accurate, and do you adopt
13
    this material as an exhibit?
14
15
               THE WITNESS (Mathur): Yes.
16
               MS. BARBINO DUBUQUE:
                                      Thank you.
17
    like to continue with Exhibit 2, direct testimony
18
    of Stephen A. Marien, Ali R. Karimi, Anuj Mathur,
    Michael Libertine and Christopher Paul Soderman,
19
    dated 1/7/2020.
20
21
               And Exhibit 3, Eversource Energy's
22
    responses to Council interrogatories, Set One,
23
    dated 1/28/2020.
24
               First I'd like to ask Mr. Marien to
    state for the record the revisions to attachment
25
```

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C, originally part of the direct testimony that
1
2
    are now reflected in Exhibit 3 as part of the
3
    response to Interrogatory number 11, so
    essentially it's a corrected attachment now.
4
               THE WITNESS (Marien):
5
                                       Sure.
6
    response to Interrogatory Number 11, Eversource
    provided an updated map set correcting the 1675
7
8
    line to the 1000 line. The 1675 line --
9
               MR. LYNCH: Could you speak up, please?
                THE WITNESS (Marien):
10
                                       Sure.
    Eversource provided an updated map set.
11
    correctly showed the 1000 line instead of the 1675
12
    line in the project area. The 1675 line is
13
    correctly shown on page 2 just east of Bean Hill
14
15
    Substation.
16
               In addition to making this revision,
17
    updated structure numbers were also provided, and
    the addition of existing structure 6807A is shown
18
    which was not shown previously.
19
20
               MS. BARBINO DUBUQUE: So just to be
21
    clear, Mr. Marien, the response with the
22
    attachment to Interrogatory Number 11 now replaces
23
    attachment C to the direct testimony?
                THE WITNESS (Marien): Correct.
24
25
               MS. BARBINO DUBUQUE: I'll ask
```

```
1
    Mr. Marien, Mr. Karimi, Mr. Mathur, Mr. Libertine
2
    and Mr. Soderman, did you prepare or oversee the
    preparation of Exhibit 2 with your respective
3
    resumes and Exhibit 3?
4
               THE WITNESS (Marien): Yes.
5
               THE WITNESS (Libertine): Mike
6
7
    Libertine. Yes.
8
               THE WITNESS (Karimi): Ali Karimi.
9
    Yes.
               THE WITNESS (Soderman): Christopher
10
    Soderman.
              Yes.
11
12
               THE WITNESS (Mathur): Anuj Mathur.
13
    Yes.
14
               MS. BARBINO DUBUQUE: And other than
    Mr. Marien's testimony moments ago as to the
15
    revisions to attachment C which are now part of
16
17
    the response to Interrogatory Number 11, the
18
    revised drawings, are there any other corrections,
    clarifications or additions?
19
               THE WITNESS (Marien): No.
20
21
               THE WITNESS (Libertine): Mike
22
    Libertine. No.
23
               THE WITNESS (Karimi): Ali Karimi.
24
               THE WITNESS (Soderman): Christopher
25
    Soderman. No.
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1
               THE WITNESS (Mathur): Anuj Mathur.
2
    No.
3
               MS. BARBINO DUBUQUE: To the best of
    your knowledge, is the information in Exhibit 2,
4
    as corrected by the response to Interrogatory
5
    Number 11 and the information in Exhibit 3 true
6
    and accurate, and do you adopt the written
7
8
    testimony with attachments and your respective
    resumes in Exhibit 2 and the responses to the
9
    Council's interrogatories in Exhibit 3 as your
10
11
    sworn testimony?
12
               THE WITNESS (Marien): Steve Marien.
13
    Yes.
14
               THE WITNESS (Libertine): Mike
15
    Libertine. Yes.
               THE WITNESS (Karimi): Ali Karimi.
16
17
    Yes.
18
               THE WITNESS (Soderman): Christopher
19
    Soderman. Yes.
20
               THE WITNESS (Mathur): Anuj Mathur.
21
    Yes.
22
               MS. BARBINO DUBUQUE: Mr. Silvestri, I
23
    respectfully request that the Council admit into
24
    evidence Exhibits 1, 2 and 3 of Eversource Energy
    as full exhibits.
25
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```
1
               MR. SILVESTRI: Thank you, counselor.
               Does any party have any objection to
2
    the admission of the Eversource Energy exhibits?
3
               MR. BOGAN: No objection.
4
               MR. SILVESTRI: Thank you, counselor.
5
    The exhibits are admitted. Thank you.
6
7
               MS. BARBINO DUBUQUE: Thank you.
8
               (Eversource Energy's Exhibits IV-B-1
9
    through IV-B-4: Received in evidence - described
    in index.)
10
11
               MR. SILVESTRI: We'll begin with
    cross-examination of the party by staff, Mr.
12
13
    Perrone.
14
               MR. PERRONE: Thank you, Mr. Silvestri.
15
               CROSS-EXAMINATION
16
               MR. PERRONE: Regarding Eversource's
17
    Canterbury and Norwich portions of the project,
18
    would either portion of the project impact
    identified resources within the Last Green Valley
19
    National Heritage Corridor?
20
21
               THE WITNESS (Libertine): The answer is
22
         I can certainly elaborate, if you'd like.
23
               MR. PERRONE: Please.
               THE WITNESS (Libertine): The primary
24
25
    structural improvements are going to occur on the
```

circuit transmission line in Norwich where we are going from single poles to two poles. The structures there today are approximately 85 feet tall. We're going to be increasing those new structures by about 10 feet, give or take. That corridor is visible, minimally visible in the surrounding area. In fact, you have to actually be in line with the right-of-way to actually pick up the structures from a visual standpoint.

Further, we have no real environmental resources approximate to the project area. So from a direct and indirect standpoint there are no anticipated impacts. If we move up to the switchyard area, we will be introducing some new structures in that area as well, but because it's going to be in concert with Quinebaug Solar's development and the fact that we have existing transmission lines in the area, it's not going to really have a substantive additional effect on the existing visual impacts that are there today.

And finally from that standpoint, in Canterbury we're essentially being provided a pad to construct on. So from an earth work or impact from a construction standpoint, that's really not something that we're responsible for. So from our

standpoint we don't feel as though the project really has -- well, the Eversource portion of the project certainly has no impact on the Last Green Valley.

MR. PERRONE: Turning to page 16 of the January 7, 2020 direct testimony in the paragraph on visual effects, at the very end it says, "The nearest residence located approximately 300 feet to the southeast," and then it gets into the elevation. But as far as that residence, could you please identify that residence on map sheet 1?

THE WITNESS (Libertine): Certainly.

If I can direct everyone's attention to map sheet

1 of the prefile testimony behind attachment C,
you hold that in a landscape position, if you look
at existing structures 6801 and 6802, if you move
to the south you'll notice there is a residence
essentially closer to 6802 in terms of a vertical
line, but that's the residence in which we're
referencing as the closest residence to the
project area. It is at a significantly lower
elevation. You'll also notice that their driveway
actually crosses the right-of-way to the left of
the page, essentially next to existing structure
6799, but that is the residence and abutting

1 neighbor that we were referring to. 2 MR. PERRONE: Because looking at it 3 quick, it almost appears that there's two This is the one a bit farther to the 4 residences. 5 west? THE WITNESS (Libertine): There are 6 residences closer to the right-of-way, but from 7 8 the standpoint of where we're physically doing the structure separations, that would be the closest. 9 So technically, yes, there could be a closer 10 11 residence in terms of proximity to the right-of-way that we're accessing. 12 13 MR. PERRONE: And the 300 foot measurement, where is that from, from the 14 15 residence to --16 THE WITNESS (Libertine): The residence 17 to essentially the edge of the right-of-way. 18 MR. PERRONE: And now back to the topic of the elevation, it says here that residence is 19 set at an elevation that's substantially lower 20 21 than the right-of-way. Could you explain how that 22 would affect visibility of the transmission 23 project from that house? 24 THE WITNESS (Libertine): Because of 25 that aspect, topography alone, because it sits at

such a lower elevation, there's not a direct line 1 2 of sight to the existing structures that are there 3 today, and so we are going to be working on the opposite side, in fact, further away from the 4 And although there's a 10 foot 5 differential in the height, we don't anticipate 6 there to be any direct views from that topography alone. We will still be leaving some right-of-way 8 edge as well which will also help to buffer if 9 there were views from like a second-story window, 10 but we just don't anticipate that based on our 11 knowledge and visiting the site. 12 13 MR. PERRONE: Lastly on visibility, this is more general, could you compare the 14 existing and proposed conditions for the 15 16 transmission project? 17 THE WITNESS (Libertine): Sure. 18 said, we're going from single poles within this right-of-way to a double circuit arrangement. And 19 essentially what is to the, we'll call it to the 20 21 west where the neighborhoods are Philanne Drive 22 and Beechwood Boulevard, there is no real 23 substantive views today in the neighborhood. There are some of the adjoining right-of-way. 24 25 I suppose, I have not stood in the backyards of

these folks, but I've driven those roads and I've actually done a project on the adjacent parcel where the water tank sits essentially to the north/northwest, there are not really significant views in that portion of the right-of-way.

so we're not expecting from that particular vantage point that things are going to change really from the existing conditions today. If in fact someone has seen one of the poles, perhaps the closest pole that's there today within our project area which would be 6800, they may catch a glimpse of the new pole, but I'd be very doubtful that that is the case. Again, I've been out in that area over the last few years on a few projects, and it's just not highly visible.

As we move to what I'll call the east side or the northeast side just off -- and actually if you turn to map 2, that might give you -- map 2 of 2 behind that same attachment -- that might give you a pretty good perspective -- it drops substantially off, it is really a cliff there that drops down to Route 2. As you move across Route 2, there is some commercial development. There is some residential development a little bit further to the north.

122

```
1
    I've driven that area extensively, and the only
2
    direct views of the existing structures, and in
    this case it would be existing structure 6805, can
3
    really only be achieved when you are looking
4
    directly down in line parallel with the
5
    transmission corridor today. So from an overall
6
    general visibility standpoint, things should not
7
8
    change substantially as they are today.
9
               MR. PERRONE: Also on page 16 of the
    direct testimony at the bottom of the page it
10
    says, "Eversource would use an existing access
11
    road originating off Philanne Drive to access the
12
13
    work."
               Would any upgrades to this existing
14
15
    access be necessary for the project?
16
                THE WITNESS (Marien): Yes, the
17
    project proposed is an upgrade to the existing
18
    access road, and a new access is proposed just to
19
    the northwest of the proposed two single circuit
20
    lines.
21
               MR. PERRONE: Could you tell us what
22
    type of upgrades to the existing access you would
23
    be looking at?
               THE WITNESS (Libertine): Essentially
24
25
    we'd be slightly widening it and top grading it
```

```
for construction vehicles. It's fairly rutted out
1
2
    today. It is accessible and cleared, but it just
    needs really some topping just to facilitate that,
3
    and some line trucks. I'd also mention that the
4
    main reason that we're creating a bit of a spur to
5
    access is just to avoid going outside the
6
    right-of-way so we can maintain within our rights.
7
8
               MR. SILVESTRI: Mr. Lynch has a
9
    follow-up question.
               MR. LYNCH: Mr. Libertine, will this
10
    upgrade to the access road accommodate emergency
11
    vehicles, fire trucks, rescue trucks without any
12
13
    problem?
14
               THE WITNESS (Libertine): It certainly
    will provide that in terms of width and overall
15
16
    grade, yes.
17
               MR. LYNCH: Thank you.
18
               THE WITNESS (Libertine): It will be
    gated, however, as it is today.
19
20
               MR. LYNCH: I'll get to that later.
21
               MR. SILVESTRI: Thank you, Mr. Lynch.
22
               Mr. Perrone.
23
               MR. PERRONE: Thanks. Does Eversource
    need to provide notice to the Federal Aviation
24
    Administration for any of your new structures,
25
```

```
either in Canterbury or Norwich?
1
2
               THE WITNESS (Marien): All the
    structures and all this project scope has been
3
    reviewed with the FAA Notice Criteria Tool and has
4
    not activated any criteria that we would need to
5
    file any FAA notifications.
6
               MR. PERRONE: And lastly regarding the
7
8
    proposed switching station, is it correct to say
    that that would be an air insulated rather than a
9
    gas insulated switching station?
10
11
               THE WITNESS (Marien): Correct.
12
               MR. PERRONE: And with that, is it also
    correct to say that it would not contain the
13
    greenhouse gas sulfur hexafluoride?
14
               THE WITNESS (Karimi): There will be
15
16
    some SF 6 gas in the breakers that we install
17
    there, yes, but it's not a significant amount
18
    basically, about 60 pounds per breaker.
               MR. SILVESTRI: Just a clarification,
19
20
    60 pounds per --
                THE WITNESS (Karimi): Per breaker.
21
22
               MR. SILVESTRI: Per breaker. And how
23
    many breakers?
24
               THE WITNESS (Karimi):
                                       Three breakers
25
    at present.
```

```
1
               MR. SILVESTRI: Thank you.
2
               MR. PERRONE: Thank you. That's all I
3
    have.
4
               MR. SILVESTRI: Thank you, Mr. Perrone.
               We'll continue with Mr. Levesque.
5
               MR. LEVESQUE: Mr. Perrone took care of
6
7
    almost all my questions, but what's the purpose of
8
    the gas in the breakers?
               THE WITNESS (Karimi): The gas provides
9
    the insulation. In the old days we used oil,
10
11
    mineral oil for that insulation, and now it's the
    gas, and it's going to change pretty soon in the
12
13
    future.
14
               MR. LEVESQUE: Thank you very much.
15
               MR. SILVESTRI: Thank you.
               We'll continue with Mr. Harder.
16
17
               MR. HARDER: Thank you. I just have
18
    one question. The direct testimony on the issue
    of tree removal, you'd be expanding the corridor
19
    anywhere from 35 to 55 feet, is that solely to
20
21
    accommodate splitting of the lines to two?
22
               THE WITNESS (Marien): Can you clarify?
23
    This is for the double separate circuit
24
    separations?
25
               MR. HARDER: That's correct.
```

```
1
               THE WITNESS (Marien): Yes, that's to
2
    separate the line to maintain necessary standards
    consistent with our Eversource standards and
3
    National Electric Safety Code and to maintain an
4
    aerial bucket corridor for our crews to work
5
6
    safely.
                            Thank you. That's all I
7
               MR. HARDER:
8
           Thank you.
    have.
9
               MR. SILVESTRI: Thank you, Mr. Harder.
10
               Mr. Hannon.
               MR. HANNON: Thank you, but I have
11
12
    nothing at this point in time.
13
               MR. SILVESTRI: Thank you, Mr. Hannon.
14
               Mr. Morissette.
15
               MR. MORISSETTE: Thank you.
                                             Good
    afternoon, panel. I would like to walk through a
16
17
    couple of the interrogatories filed on January
18
    28th. 001 indicates that Eversource is purchasing
    40.18 percent of the output. That is specifically
19
20
    CL&P is purchasing the 40.18 percent of the
21
    facility, correct?
22
               THE WITNESS (Mathur): Yes, that's
23
    correct.
24
               MR. MORISSETTE: Western Mass and NSTAR
25
    are purchasing other percentages associated with
```

```
1
    the output?
2
                THE WITNESS (Mathur):
                                       That's correct.
               MR. MORISSETTE: Moving on to 002, just
3
    a point of clarification for the record.
4
    Mr. Libertine, you reviewed Quinebaug's
5
    information specifically for the switching
6
    station, and you utilized that information to
7
8
    opine on the environmental impacts of that area.
9
    For the circuit separation part of the project,
    did you also rely on that information, or did you
10
11
    perform it independently?
12
               THE WITNESS (Libertine): No, the
    circuit separation in Norwich, which is remote
13
    from the main physical plant that Quinebaug is
14
15
    proposing, we did an independent review.
                                               So we
16
    did field reviews as well as publicly available
17
    mapping as though it were an independent piece.
18
               MR. MORISSETTE:
                                 Thank you.
                THE WITNESS (Libertine): You're
19
20
    welcome.
21
               MR. MORISSETTE:
                                 Moving on to the line
22
    separation, the estimated cost for that is, as I
23
    understand it, $3.3 million. Can you confirm
24
    that?
25
                THE WITNESS (Mathur):
                                       That is correct.
```

128

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1
               MR. MORISSETTE: The overloads
2
    associated with causing to separate is associated
    with a confidential location, but essentially if a
3
    single structure with two circuits gets affected,
4
    an overload will occur on the system, correct?
5
6
               THE WITNESS (Marien): When Quinebaug
    Solar is connected, this was studied by the ISO
7
8
    New England interconnection process, and this was
9
    identified as a way to avoid the overload.
10
               MR. MORISSETTE:
                                 Do you know what the
    output of the facility, the solar facility, was
11
    inputted into that study? So i.e. the total
12
    capacity of the solar facility is 49 megawatts.
13
    Was it 49 megawatts at full load capacity?
14
               THE WITNESS (Soderman): This is Chris
15
    Soderman. Yes, it was studied at full capacity.
16
17
    That's part of a system impact study process.
18
               MR. MORISSETTE:
                                 Typically a solar
    facility will reach maximum capacity at, what,
19
    three, four hours a day when it's bright and
20
21
    sunny, would you agree, disagree?
22
               THE WITNESS (Soderman): That follows,
23
    yes, typically.
               MR. MORISSETTE: Were other
24
25
    alternatives looked at as far as tripping the
```

1 solar plant in the event of a double circuit 2 fault, i.e., a transfer trip? 3 THE WITNESS (Soderman): I can't speak to all the machinations that the ISO system 4 5 planning process went through to arrive at this 6 being the recommended solution. So the system impact study process essentially identified two 8 solutions: One, rebuild the overloaded circuits 9 so that you could meet their rating, or to eliminate the double circuit contingency which 10 causes that. Again, I can't really speak to the 11 inner machinations of the ISO process. 12 MR. MORISSETTE: Well, it seems \$3.3 13 million to split the circuit isn't an exorbitant 14 15 amount of money, but given it's a 50 megawatt solar plant that is operating three, four hours a 16 17 day at max capacity, maybe, Mr. Soderman, you know 18 when the trigger is. Does the overload occur at some point on the curve or is it --19 20 THE WITNESS (Soderman): Again, I 21 didn't perform, and Eversource doesn't perform 22 these system impact studies. That was done by ISO 23 New England. So I can't speak to the coincidence of the max output and the max load that might 24 drive this overload. 25

```
1
               MR. MORISSETTE: Maybe we could get a
2
    Late-File to determine what the trigger point and
3
    capacity output is.
               MS. BARBINO DUBUQUE: May we go off the
4
    record for one moment, please?
5
               MR. MORISSETTE: No Late-Files?
6
               MR. SILVESTRI: We're going to hold
7
8
    just for a second, attorney.
9
               (Pause.)
10
               MR. MORISSETTE: I reject that
    question. Thank you.
11
12
               MS. BARBINO DUBUQUE: Mr. Morissette,
    before you continue, I think Mr. Marien, though,
13
    might want to just comment on what Chris said
14
    about there were two alternatives identified.
15
                                                    So
16
    I think you would want to hear his response to
17
    that question on the other alternative.
18
               MR. MORISSETTE:
                                 That would be great.
    Thank you.
19
20
               THE WITNESS (Marien): We were asked to
21
    look at the overload. In fact, that was the first
22
    thing we were asked to look at. And it involved a
23
    project that would be significantly more
    expensive, much longer project, including brand
24
    new lines, brand new structures, insulators, and
25
```

```
1
    it came down to it was a much more expensive
2
    alternative. So ISO New England directed us to
    handle the 1000 and 1080 double circuit separation
3
    instead.
4
                                 So this is the least
5
               MR. MORISSETTE:
    cost alternative for Eversource?
6
7
               THE WITNESS (Marien): Correct.
8
               MR. MORISSETTE: Okay. It seems that
9
    the probability of losing that double circuit is
    pretty low given that it's a solar facility. And
10
11
    I would assume that if you're going to lose the
    circuit, it's at a time of a weather event and
12
13
    you're not getting much solar energy out of the
    weather event and therefore your output would be
14
    low, and the loss of the line, your output would
15
    be low, and therefore the overload would be
16
17
    mitigated. But nonetheless, ISO did the analysis,
18
    and the result is a $3.3 million split.
19
               Okay, moving on. Did Heritage review
20
    the line split area?
21
               THE WITNESS (Libertine): Yes.
                                                Α
22
    cultural resource survey was done, both a Phase 1A
23
    and a Phase 1B, which consisted of a walkover of
    each of the sites.
24
```

MR. MORISSETTE:

Thank you.

25

```
1
               THE WITNESS (Libertine): You're
2
    welcome.
               MR. MORISSETTE:
3
                                That's all the
    questions I have at this time. Thank you.
4
5
               MR. SILVESTRI: Thank you,
6
    Mr. Morissette.
7
               We'll continue with Mr. Lynch.
8
               MR. LYNCH: Just two questions.
                                                 Ι
9
    wanted just to follow up on my colleague to the
    right here. What part of this project, the cost
10
    of this project, is being borne by Eversource and
11
    what part is being borne by Quinebaug Solar?
12
               THE WITNESS (Mathur): The entire cost
13
    of this project is being borne by Quinebaug Solar
14
15
    100 percent.
16
               MR. LYNCH: And I've got two different
17
    costs for that. Could you give me a round number?
18
               THE WITNESS (Mathur): The estimated
    cost for Eversource's portion of the project is
19
20
    estimated to be $13.4 million.
               MR. LYNCH: That's what it has in the
21
22
    application, but at our last meeting the
23
    applicant, Quinebaug Solar, said it would be much
    more. So that's why I was confused. Thank you.
24
25
               THE WITNESS (Mathur): You're welcome.
```

MR. LYNCH: And my last question is, we haven't had a substation or a switching station in a long time, and my question has to do with a fire protection plan. Mr. Libertine said the road would be wide enough for trucks. But do you offer to the volunteer fire departments in that area any special training, any special equipment, did you or the fire as very -- I realize it's not a high priority in this area, but for them, you know, the likelihood of it happening is probably nil, but so was Donald Trump being elected.

(Laughter.)

MR. LYNCH: I'm just wondering if you did provide any special information, special training to access your facility?

THE WITNESS (Marien): I'm not aware of any special training. In the event of that situation, our resources would be dispatched, and we would help ensure the safety of the public outside of the station.

THE WITNESS (Soderman): And we don't have anything necessarily specific training for this project, but Eversource does work with emergency response personnel on training for electric safety on an ongoing basis throughout the

entire service territory.

MR. LYNCH: Mr. Soderman, I know that

had been testified to before. That's why I asked.

Thank you.

That's all, Mr. Chairman.

MR. SILVESTRI: Thank you, Mr. Lynch.

I have one question for you. On the supposition that the project is approved, at the end of the project life the collector substation would be removed, the question I have for you: Is there any anticipated impact or, say, modification that would be needed to be made on the proposed switching station or the transmission lines once that collector station is removed besides from disconnecting?

on that time period. If Eversource Energy determines or ISO New England determines that that switching station is no longer needed, we can restore the line to the original position that it was prior to this project. If there was other needs for that switching station it will stay in service, but the contract between Eversource and Quinebaug Solar would expire at that time, and Eversource has to take care of the switching

```
1
    station.
2
               MR. SILVESTRI: You hit my follow-up
3
    question. Thank you.
               I'll ask the Council members and Mr.
4
    Perrone from staff if there's any other questions
5
    for the party. Mr. Levesque.
6
               MR. LEVESQUE: Did you -- maybe
7
8
    Mr. Mathur knows. Did you hear or understand the
    transmission part of the project cost that Dan was
9
    talking about?
10
11
               THE WITNESS (Mathur): Yes, I did
12
    understand the question.
13
               MR. LEVESQUE: Was the difference in
14
    the cost like their site preparation and, you
15
    know, pad costs that you're not doing?
16
               THE WITNESS (Mathur): I cannot speak
17
    to that.
18
               MR. LEVESQUE: Okay. Thank you.
               THE WITNESS (Mathur): Thank you.
19
20
               MR. SILVESTRI: Any other questions by
    the Council?
21
22
               (No response.)
23
               MR. SILVESTRI: Good.
                                       Thank you.
                                                   We
24
    will now move into appearance by the party.
25
               Oh, I'm sorry, Attorney Bogan, my
```

```
1
    apologies. Did you have any questions?
2
               MR. BOGAN: No apologies necessary, and
    I do not.
3
               MR. SILVESTRI: Thank you, sir.
4
               Yes, counselor.
5
               MS. BARBINO DUBUQUE: Mr. Silvestri, I
6
7
    just want to be absolutely clear. We had a
8
    request for administrative notice for three items,
    and I wasn't completely clear if that was already
9
    handled when we first started today. I wrote down
10
11
    the numbers of the other ones, but I didn't see
12
    ours that are listed on page 13. I just wanted to
13
    make sure that that was taken care of.
14
               MR. SILVESTRI: Let me go back and find
    it. Let's take care of that now.
15
16
               MS. BARBINO DUBUQUE: Thank you.
17
               MR. SILVESTRI: Attorney Bogan, can I
18
    call your attention to page 13, Item A, numbers 1,
    2 and 3? Do you have any objection to those?
19
20
               MR. BOGAN: I do not, sir.
21
               MR. SILVESTRI: Super. Thank you.
                                                    And
22
    I don't know if the Sposatos are here, but I'll
23
    ask if they have any objections to that as well.
24
               (No response.)
               MR. SILVESTRI: And hearing and seeing
25
```

```
1
    none, they are admitted. Thank you.
2
               MS. BARBINO DUBUQUE: Thank you, Mr.
    Silvestri.
3
               MR. SILVESTRI: Thanks for the catch.
4
               (Witness panel excused.)
5
               MR. SILVESTRI: I would like to
6
              The party, I guess, Mr. and Mrs., or
7
    proceed.
8
    Troy and Meghan Sposato are not here, in which
9
    case we will move back to appearance by the
    petitioner. So if you can take a couple of
10
    minutes just to get reorganized.
11
12
                (Whereupon, a recess was taken from
    1:34 p.m. until 1:39 p.m.)
13
14
               MR. SILVESTRI: I believe we're all set
15
    to continue. And we will now continue with the
16
    appearance of the petitioner, Quinebaug Solar,
17
    LLC, to swear in their two new witnesses, David
18
    George from Heritage Consultants, LLC, and
    Patricia Vallejo from NextEra Energy Resources,
19
    LLC, and to verify the new exhibits marked as
20
21
    Roman Numeral II-B-7 through 9 on the hearing
22
    program.
23
               MR. BOGAN: Good afternoon, Mr.
    Silvestri. And again for the record, David Bogan
24
    on behalf of the petitioner, along with Kate
25
```

```
1
    Boucher. I should note that Ms. Vallejo is not
2
    here today, but we do have Mr. George. So if we
    could swear him in, that would be appropriate.
3
              MR. SILVESTRI: That would be great.
4
    Thank you.
5
   DAVID GEORGE,
6
        called as a witness, being first duly sworn
7
8
        by Ms. Bachman, was examined and testified on
9
        his oath as follows:
    KEVIN RYAN,
10
11
    KATELIN NICKERSON,
12
   BRIAN HUNTLEY,
13
    JONATHAN GRAVEL,
14
   HAGEN LEE,
15
    JOSEPH CARTAYA,
16
    EDWARD DEVARONA,
17
        having been previously duly sworn, continued
18
        to testify on their oaths as follows:
              MS. BACHMAN: Thank you.
19
              DIRECT EXAMINATION
20
21
              MR. BOGAN: Very quickly. Mr. George,
22
    did you prepare or cause to be prepared what is
23
    noted on the Council's list of exhibits for
24
    identification which has now been admitted as a
    full exhibit petitioner's Phase 1B Cultural
25
```

```
1
    Resources Report?
2
               THE WITNESS (George): Yes, I did.
               MR. BOGAN: Do you have any changes,
3
4
    corrections to make to that?
               THE WITNESS (George):
5
               MR. BOGAN: Is the information true and
6
7
    accurate to the best of your knowledge and belief?
8
               THE WITNESS (George): Yes, it is.
9
               MR. BOGAN: And you adopt that as your
    testimony in this proceeding?
10
11
               THE WITNESS (George): Yes, sir.
12
               MR. BOGAN: Thank you. Moving on to
13
    the additional items that are noted on the
14
    Council's list. Starting with you, Mr. Ryan, did
15
    you assist in the preparation of certain responses
    to Late-Filed exhibits, dated January 28th and
16
17
    noted as Item 7 on the Council's list?
18
               THE WITNESS (Ryan): Yes, I did.
               MR. BOGAN: Ms. Nickerson?
19
               THE WITNESS (Nickerson): Yes.
20
21
               MR. BOGAN: Mr. Huntley?
22
               THE WITNESS (Huntley): Yes.
23
               MR. BOGAN: Mr. Lee?
24
               THE WITNESS (Lee): Yes.
25
               MR. BOGAN: Mr. Gravel?
```

```
1
               THE WITNESS (Gravel): Yes.
2
               MR. BOGAN: Mr. Devarona?
3
               THE WITNESS (Devarona): Yes.
4
               MR. BOGAN: Mr. Cartaya?
               THE WITNESS (Cartaya): Yes.
5
6
               MR. BOGAN: And do you have any
    changes, corrections, additions, modifications to
7
8
    make to that information? Mr. Ryan?
9
               THE WITNESS (Ryan):
               MR. BOGAN: Ms. Nickerson?
10
11
               THE WITNESS (Nickerson):
                                         No.
12
               MR. BOGAN: Mr. Huntley?
13
               THE WITNESS (Huntley): No.
14
               MR. BOGAN: Mr. Lee?
15
               THE WITNESS (Lee): No.
16
               MR. BOGAN: Mr. Gravel?
17
               THE WITNESS (Gravel): No.
18
               MR. BOGAN: Mr. Devarona?
               THE WITNESS (Devarona): No.
19
20
               MR. BOGAN:
                           Mr. Cartaya?
21
               THE WITNESS (Cartaya):
                                       No.
22
               MR. BOGAN: And do you adopt that as
23
    your testimony in this matter? Mr. Ryan?
24
               THE WITNESS (Ryan):
               MR. BOGAN: Ms. Nickerson?
25
```

```
1
               THE WITNESS (Nickerson): Yes.
2
               MR. BOGAN:
                           Mr. Huntley?
3
               THE WITNESS (Huntley): Yes.
               MR. BOGAN: Mr. Lee?
4
               THE WITNESS (Lee): Yes.
5
6
               MR. BOGAN: Mr. Gravel?
7
               THE WITNESS (Gravel): Yes.
8
               MR. BOGAN: Mr. Devarona?
9
               THE WITNESS (Devarona): Yes.
               MR. BOGAN: Mr. Cartaya?
10
11
               THE WITNESS (Cartaya): Yes.
12
               MR. BOGAN: Moving on to what's noted
13
    as Item Number 8 which is the petitioner's sign
    posting affidavit. I believe that was prepared
14
15
    under your direction, is that correct,
16
    Mr. Huntley?
17
               THE WITNESS (Huntley): Yes.
                           Is the information true and
18
               MR. BOGAN:
    accurate to the best of your knowledge and belief?
19
20
               THE WITNESS (Huntley): Yes, it is.
21
               MR. BOGAN: And do you adopt that as
22
    your testimony in this matter?
23
               THE WITNESS (Huntley):
                                        I do.
24
               MR. BOGAN: And then finally there were
25
    certain interrogatories propounded by Mr. Sposato
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```
noted as Number 9 on this list. Mr. Ryan, did you
1
2
    assist in the preparation of the responses to
    those interrogatories?
3
4
               THE WITNESS (Ryan): Yes.
               MR. BOGAN: Ms. Nickerson?
5
               THE WITNESS (Nickerson): Yes.
6
7
               MR. BOGAN: Mr. Huntley?
8
               THE WITNESS (Huntley): Yes.
9
               MR. BOGAN: Mr. Lee?
               THE WITNESS (Lee): Yes.
10
11
               MR. BOGAN: Mr. Gravel?
12
               THE WITNESS (Gravel): Yes.
13
               MR. BOGAN: Mr. Devarona?
14
               THE WITNESS (Devarona): Yes.
15
               MR. BOGAN: Mr. Cartaya?
16
               THE WITNESS (Cartaya): Yes.
17
               MR. BOGAN: And do you have any
    changes, corrections, additions to make to that
18
    information? Mr. Ryan?
19
20
               THE WITNESS (Ryan):
                                    No.
21
               MR. BOGAN: Ms. Nickerson?
22
               THE WITNESS (Nickerson): No.
23
               MR. BOGAN: Mr. Huntley?
24
               THE WITNESS (Huntley): No.
25
               MR. BOGAN: Mr. Lee?
```

```
1
               THE WITNESS (Lee): No.
2
               MR. BOGAN: Mr. Gravel?
3
               THE WITNESS (Gravel): No.
4
               MR. BOGAN: Mr. Cartaya?
               THE WITNESS (Cartaya):
5
               MR. BOGAN: Mr. Devarona?
6
7
               THE WITNESS (Devarona):
8
               MR. BOGAN: And is the information true
9
    and accurate to your knowledge and belief?
    Ryan?
10
11
               THE WITNESS (Ryan): Yes.
12
               MR. BOGAN: Ms. Nickerson?
13
               THE WITNESS (Nickerson):
14
               MR. BOGAN: Mr. Huntley?
               THE WITNESS (Huntley): Yes.
15
               MR. BOGAN:
16
                           Mr. Lee?
17
               THE WITNESS (Lee): Yes.
               MR. BOGAN: Mr. Gravel?
18
               THE WITNESS (Gravel): Yes.
19
               MR. BOGAN: Mr. Devarona?
20
21
               THE WITNESS (Devarona): Yes.
22
               MR. BOGAN: And Mr. Cartaya?
23
               THE WITNESS (Cartaya):
                                       Yes.
24
               MR. BOGAN: And do you adopt that as
    your testimony in this proceeding? Mr. Ryan?
25
```

```
1
               THE WITNESS (Ryan): Yes.
2
               MR. BOGAN: Ms. Nickerson?
3
               THE WITNESS (Nickerson): Yes.
4
               MR. BOGAN: Mr. Huntley?
               THE WITNESS (Huntley): Yes.
5
               MR. BOGAN: Mr. Lee?
6
7
               THE WITNESS (Lee): Yes.
8
               MR. BOGAN: Mr. Gravel?
               THE WITNESS (Gravel): Yes.
9
               MR. BOGAN: Mr. Devarona?
10
11
               THE WITNESS (Devarona): Yes.
12
               MR. BOGAN: Mr. Cartaya?
13
               THE WITNESS (Cartaya): Yes.
14
               MR. BOGAN: The witnesses are
    available. And I'd ask that the information
15
    denoted as Items 7, 8 and 9 be admitted as full
16
17
    exhibits.
18
               MR. SILVESTRI: Thank you, Attorney
19
    Bogan.
20
               Does any party object to the admission
    of the petitioner's new exhibits?
21
22
               MS. BARBINO DUBUQUE: Marianne Barbino
23
    Dubuque for Eversource. No objection. Thank you.
24
               MR. SILVESTRI: Thank you. And hearing
    and seeing none, the exhibits are admitted.
25
                                                  Thank
```

```
1
    you.
2
                (Petitioner's Exhibits II-B-7 through
            Received in evidence - described in
3
    index.)
4
               MR. SILVESTRI: We will begin with
5
    cross-examination of the petitioner by staff. Mr.
6
7
    Perrone.
8
               MR. PERRONE:
                              Thank you, Mr. Silvestri.
9
               CROSS-EXAMINATION
10
               MR. PERRONE: Mr. Lee, at the last
11
    hearing I had asked you about the PPAs, and you
12
    had explained that Quinebaug had to apply for an
13
    extension for the milestones due to the change in
    the commercial operation target date, but the PPAs
14
15
    themselves remain largely the same.
16
               My question is, did Quinebaug need to
17
    receive any additional PURA approvals for those
18
    changes to the PPAs?
                THE WITNESS (Lee): I don't think so.
19
20
               MR. PERRONE: Referencing the response
21
    to Council Interrogatory 1, I understand that the
22
    qualified capacity for the project for ISO
23
    purposes is 24.9 megawatts, but the project itself
24
    is a little under 50 megawatts AC. And I
    understand it was testified that those are two
25
```

different things, but my question is how does the 1 2 50 get derated to, say 49.2, about 24.9 by ISO? THE WITNESS (Devarona): 3 relation to the forward capacity auction. 4 actually not completely knowledgeable on the 5 6 process that ISO goes through on their decrease in price and as well as megawatts for the unit. 7 8 know that the auction actually happened yesterday, 9 and it actually cleared all the way down to 11 megawatts, and I believe the price is 1.50, but I 10 11 haven't confirmed that yet. It's a process that kind of goes through based on the capacity 12 obligation that ISO New England sees and the units 13 that actually bid into that auction, but I'm not 14 15 fully knowledgeable on the process. 16 MR. PERRONE: Turning to the Late-File 17 exhibits, Exhibit E, there's two different numbers 18 for the module wattages, STC and NOCT. Late-File exhibit it says that "NextEra generally 19 20 uses STC to base our module wattage." Could you 21 explain why STC is preferred over NOCT? THE WITNESS (Cartaya): Standard 22 23 testing conditions would be the way that the market rates most modules for procurement purposes 24 25 and what we base it to forecast our productivity.

1 But in more detail when we are doing production 2 results, we do more realistic testing, more realistic modeling. That's just a purchase number 3 basically. 4 Now I'd like to move on 5 MR. PERRONE: to the traffic topic. The response to Council 6 Interrogatory 34 stated that the 1310 findings of 7 8 fact with regard to traffic remain accurate. Specifically Finding of Fact 144 said specifically 9 during construction five to ten delivery vehicles 10 11 would be expected to visit the site daily. More recently we have the response to the Sposato 12 Interrogatory 15 where it says during construction 13 it is expected that approximately 10 to 20 14 additional vehicles will access the site along 15 16 Wauregan Road per day. 17 Can you explain why this is a greater 18 number than before, we went from five to ten to 10 to 20? 19 20 THE WITNESS (Huntley): These are all 21 estimates, and we did some assessment based on an 22 overall project to come up with some averages. 23 believe in this case we're looking at a more

timely manner of some of the construction

duration, so I think that that could increase some

24

```
of the traffic. And I think that the number that
1
2
    we provided is a little bit more conservative than
    the number that was provided previously in a
3
    finding of fact.
4
                               The questions might be
5
               MR. LEVESQUE:
    different. One of them said five to ten delivery
6
    trucks, and then the other one said like total
7
8
    trucks including service and --
9
               THE WITNESS (Huntley): And I believe
    that there also is a slight difference in the
10
11
    location that they're asking for those trucks as
    well, specifically in response to the primary
12
    access that's existing that's adjacent to the
13
    Sposato residence is where we're anticipating some
14
    level of trucks for deliveries during the project
15
    as well as potentially other locations and for the
16
17
    location of the substation as well which are
18
    different. So the split throughout exactly where
    they're going is going to be slightly different
19
    throughout the duration of the project as well.
20
21
               MR. PERRONE: So by "additional
22
    vehicles," you mean beyond what is going past
23
    there today, there would be additional with regard
    to the project?
24
25
               THE WITNESS (Huntley): Correct.
                                                  That
```

```
1
    access road is currently used for the gravel
2
    removal operations that are existing at the
    facility. This project doesn't anticipate
3
    changing the operation currently, so the
4
    additional vehicles are implying that it's not
5
    vehicles that are associated with any current
6
    operations. This would be additional vehicles
7
8
    associated with this project.
9
               MR. PERRONE: So approximately 10 to 20
    along Wauregan Road. I know you mentioned the
10
    possibility of vehicles in other areas. What do
11
    you think would be a worst-case total per day?
12
               THE WITNESS (Huntley): I think I would
13
14
    defer to the E&C on this.
15
               THE WITNESS (Cartaya): Specifically
    for delivery at peak we can expect somewhere about
16
17
    12 max delivery vehicles, delivery trucks over the
18
    course of we anticipate about seven, eight weeks
19
    at the peak.
20
               MR. PERRONE: And lastly back to the
21
    Sposato interrogatory response for that 10 to 20
22
    figure. For 10 to 20 additional vehicles, that's
23
    basically a combination of personal vehicles,
    construction vehicles and delivery vehicles?
24
25
               THE WITNESS (Huntley): It's primarily
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construction and delivery vehicles is what that number is, yes.

MR. PERRONE: Also, Mr. Huntley, at the last hearing you had testified that the petitioner had reviewed the January 9, 2020 letter from the State Historic Preservation Office. The petitioner was going through a detailed analysis to determine the impacts of those recommendations, and it was the petitioner's intention to move forward towards implementing those. Do you have an update on those?

THE WITNESS (Huntley): It is still the intention of the petitioner to address all of those concerns, and I think I could defer to Mr. George maybe for some more detail on that.

THE WITNESS (George): The plan is to follow the protocol that SHPO outlined in the letter, including establishment of buffers, areas of 50 feet around resources that are considered eligible for the national register. Areas that are not eligible for the national register either due to prior disturbance or a lack of resource potential can move on, can be developed going forward. So that's how SHPO is indicating to us in their letter what they'd like to see.

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MR. PERRONE: In the, it's labeled the
1
2
    revised May 2019 Wetland and Watercourse
    Delineation Report. And I'm going to turn to
3
    Table 2 in that report, wetland S03. At the end
4
    of the paragraph it said small fish were observed
5
    in downstream pools. And my question is, were the
6
    species of fish identified?
7
8
               THE WITNESS (Nickerson): No, the
    species of fish were not identified in stream S03.
9
    However, the intention of the Wetland and
10
11
    Watercourse Survey is to delineate the boundaries
    of these resources, not identify the fish within
12
13
    them.
14
               MR. PERRONE: Would the proposed
15
    project impact groundwater recharge of Cold Spring
    Brook and Blackwell Brook?
16
17
               THE WITNESS (Nickerson):
                                          No.
18
               MR. PERRONE: And with that, would you
    expect that it would materially impact the water
19
    temperature of these brooks and thus the wild
20
21
    brook trout population?
               THE WITNESS (Nickerson): No, we don't
22
23
    anticipate the wild brook trout population or any
    fish or aquatic species to be impacted by this
24
25
    project. We're avoiding these areas especially
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with the new footprint.

THE WITNESS (Huntley): And if I could add to that as well? I apologize. The project has been designed using standard engineering practice as well as the Connecticut required regulations for stormwater, both construction phase and long term being followed, with the anticipation that we don't anticipate any impacts to any of those resource areas as a result of the project.

MR. PERRONE: In the Environmental Site Conditions Report, the bottom of page 17, we have the banded sunfish state listed species of special concern. And it says due to the lack of suitable habitat to support the banded sunfish, this species is unlikely to occur. Could you elaborate on why there is not suitable habitat at the site?

THE WITNESS (Nickerson): Sure. Banded sunfish prefer habitat with densely vegetated aquatic vegetation. They prefer warmer water systems, lakes and ponds, typically beaver impacted streams, those kinds of habitats. Those do not occur at the site.

MR. PERRONE: Dr. Ryan, on our administrative notice list, Item Number 5, the

1 habitat assessment and survey for eastern 2 spadefoot toad located at Putnam Tech Park site, and this was prepared on behalf of the Department 3 of Economic and Community Development. 4 In that report -- and I have a copy if you need it -- on 5 pages 8 and 9 of that report it says, "Of the 47 6 acres of mapped Hinckley soils on the site, 18 7 8 acres are actively mined and nine are on very 9 steep slopes greater than 15 percent limiting their potential usefulness for the spadefoot 10 11 toad." What is your opinion on that? 12 THE WITNESS (Ryan): I would want to revisit Moran and Button, the publication that was 13 used to build the DEP predictive model, and see 14 15 exactly how they treated slope. Most of the 16 spadefoots that I found in my own studies have 17 been more in flatter areas. However, I have had a few burrow in cut hillsides, in steep hillsides. 18 Does that help? 19 20 MR. PERRONE: Okay. And what is your 21 experience with the steep hillsides affecting how 22 viable the habitat is for the spadefoot? 23 THE WITNESS (Ryan): In some of the areas that I found eastern spadefoots would be in 24 gravel mining operations, and sometimes the bank 25

1 cut would create a steep slope, and on occasion I 2 would find a spadefoot burrowed into that steep slope. But again, I would have to -- I wouldn't 3 rule out steep slopes. One would still want to 4 search if it was everything that was Hinckley soil 5 just to be inclusive. But I think you'd be more 6 likely to find them in the flatter areas with 7 8 sparse vegetation rather than on a steep hillside, at least that's from my own experience in the 9 field. 10 11 MR. SILVESTRI: I'm actually curious about that one. If you had a steep slope, would 12 the chance of finding them be more towards the 13 bottom of the slope, or would they be higher up on 14 15 the slope? 16 THE WITNESS (Ryan): That's a great question. I don't know if I have a large enough 17 18 sample size of spadefoots on slopes to be able to parse that out. The ones that I have found, I 19 20 found them on the side of slopes, and sometimes 21 one spadefoot was in a pile, a man, human created 22 pile, but those, if I remember correctly, those 23 individuals didn't tend to stay burrowed for all that long. Usually ones that were in -- that stay 24 25 burrowed for long periods of time, one animal in a

```
1
    flat area used the same 10 meter squared area for
2
    over two years.
3
               MR. SILVESTRI: I had to ask that.
4
    Thank you.
5
               Mr. Perrone.
               MR. PERRONE: Does the petitioner have
6
7
    any updates on a final determination regarding the
8
    Natural Diversity Data Base?
9
               THE WITNESS (Nickerson): We continue
    to work with NDDB. We have not received any
10
11
    comments; however, we filed some supplemental
12
    information to them probably two or so weeks ago.
13
               MR. PERRONE: I had asked a similar
    question to Eversource. In the case of
14
    Quinebaug's substation, would that be air
15
    insulated or gas insulated?
16
17
               THE WITNESS (Cartaya): Air insulated.
               MR. PERRONE: Would there be any sulfur
18
    hexafluoride such as in the breaker?
19
20
               THE WITNESS (Cartaya): Yes.
21
               MR. PERRONE: Is that basically a fixed
22
    amount that you would have to top off from time to
23
    time or --
24
               THE WITNESS (Devarona):
                                         I'm not an
    expert on the equipment, but it's similar.
25
                                                 The
```

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115 kV breaker that our project will have on the
1
2
    high side, on the high voltage side of the
    transformer, is a similar breaker to the ones that
3
    are on the Eversource switchyard, and they do
4
    contain a certain small amount of the gas.
5
6
               MR. PERRONE: Thank you. That's all I
7
    have.
8
               MR. SILVESTRI: Thank you, Mr. Perrone.
9
               So on the breaker, you have one breaker
10
    you're expecting maybe 60 pounds, similar to what
    Eversource said?
11
12
               THE WITNESS (Cartaya): That's correct.
               MR. SILVESTRI: Thank you. I'd like to
13
    continue now with the Council members who did not
14
    have the opportunity to ask questions the last
15
16
    time that we were together. And I'd like to start
17
    with Mr. Hannon.
18
               MR. HANNON: Thank you.
                                         I'll sort of
    start at the beginning. That's how my questions
19
20
    are set up. On page 6.2, 6.3, sort of the
21
    introductory, there's a comment, "Per DEEP
22
    recommendations, Quinebaug Solar will additionally
23
    make reasonable efforts to use off-road
    construction equipment that meets USEPA or
24
    California Air Resources Board standards for
25
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diesel engine emissions." What do you consider "make reasonable efforts"?

THE WITNESS (Cartaya): During the contracting process we will have some portion of the contract where we ask them to meet the guidelines of emissions. That would be at the discretion of the EPC ultimately what machinery they use onsite. But in the companies we work with mostly all use the highest standard equipment, we anticipate it would probably meet all the guidelines set forth.

MR. HANNON: I'm just trying to figure out what you mean by "make reasonable efforts."

THE WITNESS (Huntley): If I can add to that? In general, the approach is to try to not limit the contractor. And on a project like this, there are certain pieces of equipment that are typically low use, I would say an onsite water truck for dust control, those types of equipment, that could be older in a contractor's fleet and may not meet the most current EPA requirements. The goal was to try to keep in mind the use or the potential use of these vehicles in combination with meeting all of the current CARB emission requirements as well. We would anticipate that

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1
    any construction, earth moving type equipment,
2
    would be fairly new and would likely be compliant
    with all the requirements. The goal was to try to
3
    leave a little bit of flexibility in for some of
4
    these lesser used and potentially older pieces of
5
    equipment to look at the overall costs or
6
    potential construction costs on the site.
7
8
               MR. SILVESTRI: I believe Mr. Lynch had
    a follow-up to that.
9
               MR. LYNCH: One of my questions real
10
    quick. As far as your contracting out for the
11
    construction project, do you issue RFPs, and does
12
13
    the contractor have to be licensed or union?
               THE WITNESS (Cartaya): Yes, we do hold
14
    an RFP process and go out for bid.
15
               MR. LYNCH: And do these contractors
16
17
    need to be licensed with the State of Connecticut,
18
    or are they union contractors? And if they are
    union, and this is just a big if, do you get into
19
20
    any PLA agreements with them?
21
               THE WITNESS (Cartaya): So the EPCs
22
    hiring is their process. They will, if they are
23
    going to work with local unions, they may indeed
    go through that, but in general it's at their
24
    discretion to hire local labor depending on the
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state's guidance. In terms of labor that's --
1
2
               MR. LYNCH: Okay. I'll let it go.
3
    Thank you.
               Thank you, Mr. Chairman.
4
               MR. SILVESTRI: Just for the record,
5
6
    EPC, engineer procure construct, correct?
               THE WITNESS (Cartaya): That's correct.
7
8
               MR. SILVESTRI:
                                Thank you. Mr. Hannon.
9
               MR. HANNON: On page 6.15, 6.16, it
    talks about the project is proposing no direct
10
11
    wetland impacts and will apply a standard 100-foot
    no-disturbance upland buffer area, so on and so
12
13
    forth. But the question I have is would the
    proposed horizontal drilling associated with this
14
    project have an unintended direct impact on the
15
16
    wetlands?
17
               THE WITNESS (Huntley): The goal of the
18
    horizontal directional drilling is to avoid the
    direct impacts and the potential to direct
19
20
    impacts. From that perspective, blowouts are
21
    certainly possible. The goal of the project would
22
    be to manage that with the appropriate, you know,
23
    licensed and experienced contractors to minimize
24
    any potential impacts and avoid that scenario
25
    entirely.
```

1 MR. HANNON: What type of materials 2 would be used in the horizontal drilling? THE WITNESS (Huntley): It's typically 3 a slurry that's used. I would certainly have to 4 look into the actual proposal when it came time 5 for shop drawing review on what would be used, but 6 we could certainly specify that it is nontoxic 7 8 materials that would be used for the project. MR. HANNON: That's kind of where I'm 9 10 going with it. MR. SILVESTRI: Could you elaborate on 11 the term you used blowout, what's a blowout? 12 THE WITNESS (Huntley): Generally a 13 blowout. So the horizontal directional drilling 14 has a pit, a receiving pit, and a commencing pit 15 16 that's on each side. So they drill under the 17 ground, and as that is drilled, there is a slurry 18 that's typically very aqueous that opens up this path to create the hole that a pipe would then be 19 20 drawn through. So what can happen from time to 21 time is if the pressure is too high as it's being 22 drilled, some of that slurry could come up through 23 the ground, and that's what a blowout would be is if some of that came up into an area that's not 24 25 either the receiving pit or the entry pit.

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MR. SILVESTRI: And how is that
1
2
    prevented?
               THE WITNESS (Huntley): It's typically
3
    prevented with good site controls and management
4
    and experienced people that are doing this work.
5
6
               MR. SILVESTRI:
                                Thank you.
               MR. HANNON:
                            Tab C. It's on page 2,
7
8
            It talks about shallow groundwater at the
9
    site, and it says the groundwater depth at the
    monitoring station is mapped as approximately
10
11
    10.5.
           I'm just trying to figure out, I didn't see
    any location on the maps as to where this
12
    monitoring station was located. So can you
13
    enlighten me on that?
14
15
               THE WITNESS (Gravel): If I may, are
    you referring to the geotechnical survey work?
16
17
               MR. HANNON: Yes.
                                   That's in Tab C,
18
    correct. So it talks about the groundwater depth
    at the monitoring station nearest the project site
19
20
    is mapped as approximately 10.5 feet. And I'm
21
    just trying to figure out where that monitoring
22
    station is located.
23
               (Pause.)
               THE WITNESS (Gravel):
                                       Thanks for
24
25
    waiting. I'm just trying to pull up that
```

1 appendix. 2 THE WITNESS (Huntley): Figure 8 in that report actually does show the piezometer 3 locations. I believe that would correlate the 4 results that you're seeing to the numbers. 5 6 MR. HANNON: I just didn't find it, so I'm just asking. 7 8 THE WITNESS (Huntley): I think Figure 9 8 does that. Okay. Thank you. 10 MR. HANNON: I also 11 have on that same section it looks like because of the presence of shallow groundwater it may 12 complicate construction and require a buoyant 13 14 foundation. What is that? 15 THE WITNESS (Huntley): Essentially 16 what it implies is that in addition to the 17 strength that's required from pulling the posts 18 out of the ground from the soil, we would also have to take buoyancy into account with the 19 20 design, which essentially means that anywhere that 21 your foundation is actually within the level of 22 groundwater, the buoyant force, which is the 23 upward force, reduces the effect of the weight of 24 the soil in that location. So it would mean that there would be slightly more embedment where there 25

is a higher groundwater to overcome those additional buoyant forces.

MR. HANNON: I just hadn't seen that as a foundation system prior to this, so thank you.

In Section 3.2, groundwater conditions. The groundwater measurements indicated groundwater level at four weeks after installation ranged from 5.9 feet to 27.3 feet. So is it possible that there are some perched groundwater tables in this area, and can that represent a problem?

THE WITNESS (Huntley): It's certainly possible that there are some perched groundwater throughout the site and through many sites in the area. We don't anticipate that being a problem at all for the design because the design usually takes the most conservative approach which would be the highest groundwater level. So if there is a perched groundwater at any location, that would be taken as the most constraining point for the long-term design of the structures. So in the event that they do drain out quicker or that it's not perched for a long period of time, it would just be a more conservative design in that area.

MR. HANNON: And then I'm just not totally familiar with some of the terminology. So

if you could please explain the comments regarding 1 2 the deeper foundations and drilled shafts or 3 driven piles used where there may be a need for I'm just having a hard time wrapping my 4 casings? head around all these different techniques that 5 might be applicable. 6 THE WITNESS (Huntley): And I believe 7 8 that in this event that report was put together to 9 be very conservative and to cover a large number of potential construction types as well as 10 11 potential construction activities. The intention on this project is to use a driven system, so 12 13 anything that would be associated with the casings is not relevant for the project. Where there is a 14 potential for refusal and there is augering that's 15 required, that would be backfilled with grout as 16 opposed to requiring a casing in this case. 17 18 Typically that casing is required if it's a more -- a deeper structure that would be required 19 20 for something more substantial than, say, a 21 racking system which is not what we're proposing 22 and not what we would anticipate in areas of 23 concern. MR. SILVESTRI: I just want to 24

interject on that. So casings would not be used

1 on this project? 2 THE WITNESS (Huntley): There's no intention to use casings for any of the piles that 3 are driven for the racking structure, correct. 4 MR. SILVESTRI: 5 Thank you. MR. HANNON: Also, 4.1.2 on page 15 6 it's a little word but it really caught my 7 8 attention, talking about soil stabilization, and it makes reference to the use of cement, lime or 9 fly ash. Now, I've been dealing with fly ash for 10 a long time, and every time I've dealt with it 11 it's always been a hazardous material. So I was 12 surprised to see fly ash identified as a possible 13 soil stabilizing agent. Can you explain? 14 15 THE WITNESS (Gravel): This report, geotechnical report, is just providing kind of 16 17 things that could be used to help if there's any 18 challenging circumstance, and they kind of give a recommendation that you might be able to use. 19 have no intention to use fly ash. This is, again, 20 21 just a report that kind of highlights what 22 constraints might be found at a very conservative 23 level, but we have no intention to use fly ash. MR. HANNON: I would have been much 24 25 happier if it talked about cement and lime only.

Again, fly ash, from what I've seen in a number of different entities, it's always been pretty hazardous. So that really caught my eye on that one. So as long as you're going on record saying that that is something that will not be used on the site.

THE WITNESS (Huntley): If I can add to that? I think the intention is that that would certainly not be something that would be used for ground stabilization, but I can't say that fly ash wouldn't potentially be a component in some of the concrete that could be used on the site which is very common in the concrete industry. So I think that in the context of the question that you raised, I think we could absolutely say that for site stability and soil stabilization it would absolutely not be used on the site.

MR. HANNON: But even using it in the concrete raises some issues because the agencies had problems in the past where CRRA was talking about using fly ash in concrete blocks, things of that nature, and I'm concerned about the hazardous components associated with fly ash. So if that is something that might possibly be used, I would sure like to see some type of analytical on what's

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in that cement and what the leaching issues are,
1
2
    things of that nature, because I'm not sure it's
3
    something that we've really looked at favorably in
4
    the past.
                This is just a question because it's
5
    not a term I'm familiar with, so I'm going to ask.
6
    On page 17 it's under 4.1.7, the third paragraph
7
8
    talks about concrete placed in drill shaft
9
    excavations in the presence of water should be
    placed using a -- and I'm not even sure what kind
10
    of pipe that is, so if you could please explain to
11
    me what that is?
12
13
                THE WITNESS (Huntley): Tremie pipe.
    Essentially what that is, is it's placement of the
14
    concrete from the bottom of that shaft up.
15
    it's essentially the appropriate way that you
16
17
    would fill a structure that has groundwater in it.
18
    Essentially, you would put a pipe all the way down
    to the bottom of that and fill it with concrete to
19
20
    the top so it would displace the water, as opposed
    to the potential for that grout to mix with water
21
22
    as it's dropped in from above.
23
               MR. HANNON: I just wasn't familiar
    with the term.
24
25
                THE WITNESS (Huntley): It's a very
```

1 common term and essentially when you're 2 decommissioning any types of wells where you would use a tremie grout method is what it is. 3 basically where you're filling from the bottom up 4 5 with concrete to purge any of the water out so it 6 doesn't mix with the grout that's going in there and reduce the strength of that grout when it 7 8 hardens. 9 MR. HANNON: Thank you. On page 18, 4.1.9 under dewatering. What are the standard 10 dewatering procedures that you're proposing to use 11 12 on site? THE WITNESS (Gravel): Dewatering I 13 would think would only occur at deep foundations 14 15 which would be located mostly for the substation. 16 Based on the soil conditions there, we feel the water table is quite low, meaning deep. And right 17 18 now we don't foresee or anticipate the use of dewatering, but if dewatering were used it would 19 20 be handled onsite and probably done in accordance 21 to general permit rules. 22 MR. HANNON: Thank you. On 4.2.1 it 23 talks about, last paragraph, last sentence, "Barr understands that the test pile program has been 24

completed but has not reviewed the results of the

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1
    testing." Has that been done by any chance, and
2
    is that information available anywhere?
               THE WITNESS (Gravel): Can you repeat
3
4
    that section, please?
               MR. HANNON: Sure.
5
                                    It's 4.2.1, last
    paragraph, last sentence, "Barr understands that
6
    the test pile program has been completed but has
7
8
    not reviewed the results of the testing."
    just wondering if that has been done.
9
               MS. BOUCHER: Bottom of page 18.
10
               THE WITNESS (Gravel): Some pile
11
    testing has been done. We might want to do
12
    additional. And if we have concerns based on the
13
    report from Barr and how the testing is completed
14
    and the results of the pile testing might not
15
    compare or need further consultation, we can
16
17
    provide that to Barr.
18
               MR. HANNON:
                            But that answer makes it
    sound like the results haven't been complete or
19
    that information hasn't been completely reviewed.
20
21
    I mean, that's what it's sounding like.
               THE WITNESS (Cartaya): I'm going to
22
23
    add to that. For preliminary testing for pile and
    geotechnical, it is just a standard process for
24
25
    our preliminary construction activities. When we
```

do go out to bid in EPC, there is further geotechnical and pole testing done. In addition to that, we're also in the process of doing some additional work out in the substation area. We'll be doing more geotech and pole tests there as well. So this was a preliminary result. We do more beyond this. MR. HANNON: I was just asking because it said something had been done but it hadn't been

reviewed. I'm just trying to find out if it had

been reviewed.

- In Tab D this was touched upon a little bit earlier. It has to do with the Natural Diversity Data Base group. And I guess there was some information submitted a couple weeks ago. I believe what was testified to. When we're talking about close to reaching an agreement with the Natural Diversity Data Base group, what are we talking about?
- THE WITNESS (Nickerson): We have had ongoing dialogue with the NDDB group since we filed our request for a final determination in August of 2019 -- sorry, April of 2019. Over the summer we responded to some questions regarding water quality. Those are provided in Exhibit D.

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1
    More recently we have received questions from them
2
    regarding protections of eastern spadefoot toad at
3
    the site, and we're responding to those questions
    currently.
4
               Does that answer your question?
5
6
               MR. HANNON: I mean, the answer that
    all of us would like is when?
7
8
               THE WITNESS (Nickerson): I would like
9
    that answer too.
               MR. HANNON: So that's the first book.
10
    I broke down all your information into different
11
    notebooks, so I'm done with the first book.
12
13
               This one I'm trying to keep in order,
    the Herpetofauna Avoidance and Mitigation Plan.
14
15
    And my question is to Dr. Ryan. Do you agree with
    the data from -- well, let me rephrase that
16
17
    because I actually went online to try to find some
    general information. And there's some data from
18
    the Savannah River Ecology Lab that has shown that
19
    the eastern spadefoot is very long lived and
20
21
    populations often go for many years without
    successful reproductive events. Would agree with
22
23
    that statement?
               THE WITNESS (Ryan): Yes, in short,
24
25
          They can skip years between breeding which
    yes.
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having a life history strategy of longevity helps if you're only going to have a successful breeding event once every so many years.

MR. HANNON: I'm glad that you agree because that leads to my next question, assuming I can find where it is in here. If the 2019 data shows a higher density or the presence of a breeding pool ends up being confirmed, will that establish -- I take it back.

If you find, because one of the things that was done for mitigation purposes, there was a refuge area that was supposedly identified, but what I'm not sure of is whether or not that was in one of the proposed construction areas or whether it was in the proposed laydown area. So is that something that you can answer?

THE WITNESS (Nickerson): So the Avoidance Mitigation Plan was written in the spring of 2019 prior to the 2019 eastern spadefoot toad surveys. We continued our surveys through the summer of 2019. So the explanation you're reading was a theoretical. If a breeding pool was found or a breeding population was found, we would establish a refuge area. It would probably be within proximity of that pool, or otherwise, that

would make sense for protecting the species.

1

2 THE WITNESS (Ryan): If I can add to 3 The 2018 surveys were, from what we saw from one year, as we know, these things are 4 erratic in their breeding and populations are 5 difficult to detect. So from what we got from 6 spending I think it was 164.5 person hours in 2018 7 detected -- so that's 16 nights of surveys spanned 8 9 throughout spring/summer and I think into early fall -- yielded only three toads which suggested a 10 very low population density. So we set the plan 11 in place but just to keep things moving with the 12 permitting process moving. But in 2019, just to 13 be sure because the spadefoots are so erratic, we 14 15 continued surveys on the site, and that's why that 16 was put in there if it was discovered that all of 17 a sudden, wow, there is a huge population of these 18 animals on the site that we hadn't seen, and 2018 must have been just a slow year for activity, then 19 20 we would proceed with the refuge area and 21 everything. But the information we collected in 22 2019 backed up our observations, backed up our 23 conclusions from 2018. MR. HANNON: Again, my question goes 24 25 more to if you needed to establish that refuge

area, which one of the gravel areas was it being proposed for? Because you've got some active gravel operations, and one of the other gravel operations, I believe part of that area is identified as a laydown area for equipment for the project, so I'm not sure where the laydown area may be or the active construction compared to where you're talking about the refuge. That's all I'm looking for. I'm just trying to make sure that it's not in any of those areas. 

THE WITNESS (Nickerson): Sure. To explain, it would be isolated using construction silt fence, so it would not just be a random area selected. And I think Kevin can probably add to this, but it would be determined on site depending on the location of the pool and the breeding area that would theoretically be found.

THE WITNESS (Ryan): To back up what she said, we would want to, if we did discover a high population density in a specific area or a breeding population, we would then work on the site to decide what would be the most appropriate area to set aside as a refuge, and that would consist of a walled-off enclosure of silt fence. And then there would be a number of nighttime

```
surveys to catch individuals and move them into
1
2
    that temporary area that is suitable spadefoot
    habitat so they're not spending their time trying
3
    to get out. And then once construction was
4
    complete, we would remove the silt fence and let
5
    things disperse.
6
               MR. HANNON: I just wanted to make sure
7
8
    that if you found any they were safe.
9
               THE WITNESS (Ryan): Yes, that's what
    we would seek to ensure.
10
11
               MR. HANNON: And then two -- actually,
    I'll just combine sort of my next three questions.
12
    In this section you talk about mitigation actions,
13
    1, construction phasing to avoid take of eastern
14
15
    spadefoots. You've got mitigation action 2,
16
    post-construction population monitoring. And
17
    mitigation 3, monitor and protect potential
18
    breeding pools. And there's talk about if you
    don't really see any of the breeding in 2019, then
19
20
    you may -- it sounds like you may not need to do
21
    some things. But because of how many years these
22
    critters can go without reproductive events, why
23
    don't we just incorporate all three of those
    mitigation measures on the site?
24
25
               THE WITNESS (Nickerson): This is
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exactly the conversation we're having with NDDB currently, so these conversations are ongoing, and you could see potentially more protection for some of these potential breeding pools.

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THE WITNESS (Ryan): Essentially setting enough land aside that would satisfy the life history requirements of the eastern spadefoot toad. So the project, as built, would have everything that a spadefoot needs to complete its life history.

MR. HANNON: Okay. On page 12 this is a mitigation action that's identified. It's under 4.5, spotted salamander and wood frog. It's just a general comment that's made. It's the second bullet. It talks about silt fence will be installed surrounding the area to prevent fine materials from being deposited into wetlands. However, having had a fair amount of experience in dealing with it, to me if you're trying to keep vines which I believe are onsite and some of the clay particles which are onsite, a silt fence just doesn't work, and especially when it's related to a wetland area I think you need something in addition to the silt fence. Because I know the silt fence is providing other safety measures on

1 the site. 2 I would prefer to see something like silt socks or whatever terminology you want to put 3 on them. I think that should also be 4 incorporated, especially where you've got any 5 6 wetland areas between the project area and that wetland body. Because, again, the intent here was 7 8 to keep the silt out of the wetland, and I would like to see the silt kept out of the wetland. 9 (Off the record discussion between Mr. 10 Hannon and Mr. Silvestri.) 11 12 MR. HANNON: Assuming this project was approved, they still have to -- it will be located 13 on their D&M plan. 14 15 MR. SILVESTRI: Perfect. 16 MR. HANNON: Okay. 17 MR. SILVESTRI: Just making sure. MR. HANNON: Volume 4, I don't have any 18 questions because I asked that the last time and 19 you gave me the answer, so I'm fine with that one. 20 21 Site plans. I'm going to deal with 22 some of the maps here. Map G-001, general notes, 23 number 12, store fuel, oil, paint and other hazardous materials in a secondary container and 24 removed from the site to a locked indoor area with 25

an impervious floor during nonworking hours. 1 2 Where is that site located? 3 THE WITNESS (Huntley): We would expect that during the site construction there would be 4 potentially some conex containers, some storage 5 containers, places on site that would provide 6 exactly what we're talking about for safe, on-site 7 8 locked inside storage. The exact location is not determined. It's something that would be 9 10 determined by the contractor as we get into the construction phase of the project. 11 12 MR. HANNON: I'm assuming it's going to be close by. So the goal would be to remove all 13 of that material from the site on a daily basis? 14 15 THE WITNESS (Huntley): Correct. MR. HANNON: I'm looking at map C-003. 16 17 This is just a general question. When you're 18 talking about internal property boundaries, I'm assuming that throughout all the maps that's just 19 20 trying to identify the different number of parcels 21 that have all been accumulated on this, and it's 22 just showing some of the individual property 23 lines, but the project is much larger as a whole? THE WITNESS (Huntley): That's correct. 24 25 The project consists of several, maybe as many as

30, different parcels, and the internal property 1 2 lines are those that would delineate between different properties that are all within the 3 footprint of the overall project. 4 MR. HANNON: I'll use map C-005 as an 5 example, but it also includes 008, 009, 0011, 23, 6 25, 14, 15 and others. What appears to be at 7 8 least somewhat problematic for me is the 9 indicators you have here for those areas that will be having trees cleared and stumps to remain in 10 11 those areas where the property will be cleared and grubbed. Using that diagonal line for a portion 12 13 of it, but then going in with -- in trying to figure out what you're doing there and where and 14 15 how far you go, especially on some of the areas where they're smaller to deal with, is there a way 16 17 that that can be more clearly defined? Because to 18 me it's just way up in the air. I mean, you could have 50 feet because the line doesn't extend far 19 20 enough, and you're clearing a lot more area and 21 grubbing a lot more area than you anticipated. So 22 that's just more a matter of trying to clarify 23 what's in the plans. THE WITNESS (Huntley): Sure. 24 25 your question would this be more defined prior to

construction to give the contractor very clear -MR. HANNON: Very clear.

THE WITNESS (Huntley): Yes. So historically what has been included in D&M plans in the past and would be included in issued for construction drawings would be lines delineating the difference between what's happening, and each of the vertices on those lines would provide a coordinate. So the contractor has X and Y of every single point that would define exactly where this delineation of tree clearing and stumps remaining versus tree clearing and clearing and grubbing the stumps versus it's already open and there is no clearing required. Those would be provided on a final construction set that would be prepared before the project goes to construction.

MR. HANNON: Thank you. And then on C-013, I mean, that's where I found the construction laydown area, but I don't think anywhere I saw any type of erosion control measures around that laydown area. It may be on another map. I didn't see it anywhere. So I just want to bring that to your attention.

THE WITNESS (Huntley): So for clarity,

I think, on the laydown area that's in the center

1 of the site, it's actually at a low point on the 2 site. It's where the gravel removal has happened It will be cordoned off or defined for 3 the contractor exactly where their laydown area is 4 and it's allowed. From an erosion and sediment 5 6 point of view, they will have to manage it as part of the project which will be required to comply 7 8 under the construction general permit as well. 9 But we don't anticipate runoff necessarily from these areas because they are essentially at the 10 low points on the site because of the previous 11 activities that have happened. 12 MR. HANNON: Thank you. This is just 13 sort of a general question on map C-027. I'm just 14 trying to figure out what that circle is in the 15 middle of the property. Yes, that one. 16 Because 17 if I'm not mistaken, I believe the solar panels 18 also work around that circle. So I'm just curious as to what it is. 19 20 THE WITNESS (Nickerson): Mr. George might be able to elaborate on this, but I believe 21 22 this is a cultural site that's being avoided. 23 MR. HANNON: Okay, that's fine. wasn't sure why it was there. And I think I'm 24 25 correct in that the panels are also avoiding that

1 area? 2 THE WITNESS (Nickerson): Yes. 3 THE WITNESS (Huntley): That's correct. MR. SILVESTRI: I'd also add that on 4 drawing C-069 where it's labeled as protective 5 fencing during construction, and again, I had no 6 idea, as Mr. Hannon did, as to what that area was. 7 8 THE WITNESS (Huntley): That's the same 9 issue. And the protective fencing is indicative that it would be a construction fence or, you 10 11 know, a snow fence to make sure that the contractor stays out of that area and they're 12 13 protecting that area. 14 MR. SILVESTRI: Thank you. 15 MR. HANNON: On map C-041 what is that 16 truck turnaround in the middle of the property? 17 THE WITNESS (Gravel): Which number? 18 MR. HANNON: C-041.THE WITNESS (Huntley): That's an 19 existing conditions drawing, and it's actually 20 21 showing some of the existing onsite road network 22 that exists. And I would say I don't know exactly 23 what the truck turnaround is, but it's potentially 24 part of a previous either agricultural or gravel 25 operation.

1 MR. HANNON: It has nothing to do with 2 this operation? 3 THE WITNESS (Huntley): That's correct. These are existing conditions. These drawings 4 essentially delineate where the clearing and the 5 6 grubbing is. It's when you get after the C-044 or 45, I believe, that gets into proposed, that that 8 would show where the proposed roads are. All of this here is the existing network that you're 9 seeing on those drawings. 10 11 MR. HANNON: Okay. I'm not sure exactly how to handle this next question because I 12 actually went through virtually all of them, but 13 general questions about the infiltration basins. 14 15 And my primary question is why are there so many 16 different elevations below the high point of the 17 berm? So, for example, on map C-046 berm height 18 is 228, spillway 227.5. On map C-051 maximum berm height is 19 20 260, elevation leaching to spillway is part of 21 berm 258, spillway elevation 257.5. 22 On C-056 maximum berm elevation is 274, 23 spillway is 273.75, which I believe is what is in the details you're showing a 3-inch elevation 24

below the top of the berm for the spillway.

1 On C-059 maximum berm elevation is 211, 2 spillway 210.25. On C-061 maximum berm elevation 286, 3 spillway 285. 4 On C-062 and on 68 maximum berm 5 elevation is 254, spillway 253. 6 So I'm trying to figure out why all the 7 8 different elevations. You've got in the details there is a specific elevation that you're looking 9 at which is roughly the 3 inches. So why are we 10 going from 3 inches to a foot? I'm just not 11 understanding the dynamics on that. 12 THE WITNESS (Huntley): So each one of 13 these proposed basins was designed and analyzed 14 15 through HydroCAD through modeling of the exact site. And the freeboard and the different 16 17 elevations were looked at and determined. And I believe where this comes out of is that depending 18 on the amount of contributing area to each one of 19 20 these basins, you need a little bit larger 21 freeboard to maintain 100 year storm within these 22 basins above the spillway just because of the 23 dynamics of the stormwater. So I think in general the 3 inches is a 24

minimum, and we did detail every single basin to

```
provide for exactly what each one of those basins
1
2
    is requiring on a site by site and a location per
    location basis to be sure that even in a larger
3
    event we're not overtopping any of the berms.
4
               MR. HANNON: Because, again, the reason
5
6
    I'm raising the question is because in looking at
    the details that were provided, it specifically
7
8
    identifies a 3-inch height.
9
               THE WITNESS (Huntley): Correct.
               MR. HANNON: So if there is going to be
10
    some variation, then you probably need to go ahead
11
    and change the detail side of things so that it
12
    accommodates what you're proposing to do. Because
13
    if you just look at the details and as a single
14
15
    detail saying a 3-inch --
16
               THE WITNESS (Huntley): I agree.
17
               MR. HANNON: So that's the reason why
18
    I'm bringing it up.
               THE WITNESS (Huntley): Thank you.
19
20
               MR. HANNON: On map C-081 I'm curious.
21
    Let's see, I'm assuming it's on the eastern side.
22
    I'm trying to figure out why, it looks like east
23
    of that roadway, why there's some of the grading
    outside of that area. It goes beyond where the
24
25
    panels are going. It goes beyond where some of
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1 the other work is being provided, switching 2 station and things of that nature. So I'm just curious as to what that grading is about. 3 THE WITNESS (Huntley): That is 4 required in order to essentially close out the 5 contours on the site. This is an area that's 6 currently actively being mined for gravel removal. 7 8 In order to avoid, if you can see on the like 9 lower right side, there is a wetland there that we're trying to maintain the buffer zone from that 10 11 wetland without doing any grading or any impact at all in that wetland. In order to do that, we have 12 to steepen up some of the slopes or adjust some of 13 the slopes beyond that 100 foot buffer in order to 14 be able to tie all the contours together 15 throughout the entire site. So this is an area 16 17 where there's some earth work that's going to be 18 required prior to the project in order to deal with some of those issues that are already on 19 20 site. 21 Okay. Were you planning MR. HANNON: on providing any details with the horizontal 22 23 directional drilling because I saw them on C-049, C-071, C-072 and C-076. I mean, I'm kind of 24

curious as to what kind of depth you might be

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1
    looking at. I know we talked about having it used
2
    in the first place, but except for two lines
    showing where there's horizontal drilling, there
3
    really isn't any other detail about it.
4
               THE WITNESS (Huntley): Right.
5
    Typically with the horizontal directional drilling
6
    there's a lot more geotechnical investigation
7
8
    that's going to be required before we can come up
    with a design. That's why we left it at that high
9
    level point.
10
11
               MR. HANNON:
                            Okay.
                                    Thank you.
                                                I'm
    getting close to the end. Tab H, the Operations
12
    and Management Plan. It's on the second page
13
    under long-term maintenance. You've got the
14
15
    planted areas will be inspected on a semi-annual
16
    basis. Weeds and invasive species will be removed
17
    by hand. Can you provide a little more detailed
18
    description as to how the site would be maintained
    against the invasives?
19
20
               THE WITNESS (Gravel): Currently our
21
    plan for invasive species is to maintain
22
    problematic species that would maybe become an
23
    issue for, say, like a shrubby species or
    something like that, that may have the ability to
24
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grow up into the panels and may cause some

functional issues. So that's one way we would utilize some maintenance controls to minimize invasive species.

MR. HANNON: It also goes beyond just what you need for the panels because there's a lot of area that you're disturbing. And I would think that all of that area would be incorporated into an invasive species management plan just because it may have an impact on your panels. And you treat it there. You don't want to let it grow up around the panels around the perimeter of the project so then when you pack up your bags and go home the property owner is left with a major problem.

THE WITNESS (Gravel): I think by
maintaining a meadow habitat, we would be
precluding a lot of invasive species that could
potentially inhabit within the fence line. So I
think that's probably mowing twice a year will
maintain it so that you wouldn't have a lot of
invasives.

MR. HANNON: But there may be some things that you might need to go back and take a look at and do some hand removal, or if you do some cutting there may have to be something

applied to the stalk of the plant just as a way to try to mitigate anything there.

And then my last question is dealing with the array cleaning procedure, and it talks about no harmful chemicals shall be used. But I didn't think chemicals were going to be used at all, so why say no harmful chemicals? If it's just water and a brush, that's what the plan should say. But when you say no harmful chemicals, that implies that there could be other chemicals that are used.

THE WITNESS (Cartaya): We don't intend to have to clean the modules at these locations.

But in the case that they would be, I think water and a soft brush, as has been mentioned before, would suffice. I hear your point.

MR. HANNON: I don't like some of these soft squishy words in some of these reports because it opens the door to be doing something that on one side you say you're going to use water and soft bristle brushes, but on the other hand you could always point to this, well, we said no harmful chemicals. So I'm just trying -- so just be aware of that so should this project go forward that you may need to be cleaning up some of the

1 plans for the D&M plan. 2 THE WITNESS (Cartaya): (Nodding head in the affirmative.) 3 MR. HANNON: I have a couple of 4 questions dealing with decommissioning, and some 5 of it relates to comments earlier saying that I 6 believe there's apparently a lot of salt in the soils. And this may be very acidic soils, and it 8 9 can do a job on the posts. So what I'm wondering is when you go to dismantle this project or 10 11 decommission the project at the end, what impact might that have on the value of those materials? 12 Because I think everybody anticipates that they'd 13 be able to use the panels, all the metal framing 14 and everything, that they're going to be able to 15 get some pretty good money out of it. And I'm 16 17 just curious if you do have, as was mentioned in 18 the report you may be dealing with some highly erosive soils, what's the impact on the 19 20 decommissioning plan and the profits coming in to 21 cover the cost? THE WITNESS (Huntley): Given the 22 23 potential 30 year, you know, long life of the project and the galvanized nature of the piles 24 25 that we're using, we certainly wouldn't

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anticipate, even if there is some level of
1
2
    corrosion that would exist, that it would have a
3
    significant impact on the material that would be
              They could be recycled at the end of the
4
    removed.
    project.
5
               MR. HANNON: And this, I think, is my
6
    final question unless something comes up from
7
8
    somebody else. But if the materials are so
9
    valuable and it only takes 11 months for
    construction, why would it take two years to
10
    remove the materials from the site?
11
               THE WITNESS (Huntley): I don't think
12
    it takes two years to remove the materials from
13
    the site. I think that the decommissioning
14
    process from a de-energizing and the, I would say,
15
16
    the bureaucracy involved with getting a project
17
    done is where the applicant is looking for the
18
    flexibility and the time allowed to remove it, as
    well as seasonal condition requirements as well.
19
               MR. HANNON: Well, it was striking to
20
21
    me that based on your time frame it would take 11
22
    months to construct but you need two years to
23
    decommission it. It just didn't seem quite right.
               THE WITNESS (Cartaya): If I could add?
24
25
    I think in decommissioning, you know, we state we
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will turn it back to its original state.
1
                                               That in
2
    nature is going to take a little longer than civil
    grading a field and getting it prepped for
3
    construction. So turning it back with seasonality
4
    included, as Brian had mentioned, I think all
5
    those things as more of a covering of time to be
6
    able to make sure it's turned back to the original
7
8
    state.
9
                             Then I think the
               MR. HANNON:
    decommissioning plan needs to be more specific.
10
11
               THE WITNESS (Cartaya): Okay.
12
               MR. HANNON: I yield the rest of my
13
    time.
14
               MR. SILVESTRI: Thank you, Mr. Hannon.
15
               I'd like to turn now to Mr. Morissette.
16
               MR. MORISSETTE: Thank you. Good
17
    afternoon, everyone. First, I'd like to go
18
    through the interrogatories dated January 7th, and
    I refer you to the response to Question 1. We'll
19
    go back to that one because I'm still confused.
20
21
    My understanding from the last hearing is that
22
    you've cleared in FCA 13, and you were going to
23
    participate in FCA 14.
24
               THE WITNESS (Devarona):
                                         That's
25
    correct. This last one that happened last year
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1
    was FCA 14, and the auction actually took place
2
    yesterday.
               MR. MORISSETTE: So did you clear in
3
4
    FCA 13?
               THE WITNESS (Devarona): We believe we
5
6
    did clear. The postings will actually be done by
    ISO New England in a couple of weeks. And so what
7
8
    I learned this morning is that we believe we
    cleared somewhere around the 11 megawatt value,
9
    and then the actual dollars for that were between
10
    3 and 1.50 per kilowatt month.
11
12
               MR. MORISSETTE: That was for FCA 14,
13
    correct?
               THE WITNESS (Devarona): 14, yes.
14
15
               MR. MORISSETTE: So did you clear in
16
    13?
17
               THE WITNESS (Devarona): No, in 13 we
18
    did not clear the auction.
               MR. MORISSETTE: Now, as far as the
19
    capacity of 24.9 that you bid into FCA 14, so you
20
    bid 24.9 into the auction, correct?
21
22
               THE WITNESS (Devarona): I think the
23
    way it works -- and again, I'm not an expert on
    exactly how these things happen. Our marketing
24
25
    group is the one that handles a lot of this -- is,
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1 you know, obviously the project is bid at the 50 2 megawatt value, and ISO New England applies a capacity value to that which ends up being 24.9 3 4 megawatts. Is that based on a 5 MR. MORISSETTE: capacity value or coincident with ISO's peak? 6 THE WITNESS (Devarona): I think it may 7 8 be based on resource type. Being a solar plant, 9 it does not get the full capacity value of the nameplate. It gets derated down to some sort of 10 11 probability of what it actually is producing 12 during the time. 13 MR. MORISSETTE: But you only cleared 14 11 megawatts? 15 THE WITNESS (Devarona): So that was a 16 deration process that goes on, and that's the piece that I'm not very familiar with how that 17 18 actually ends up happening. The 24.9 was what the capacity value I was given by ISO New England, and 19 20 then it actually was derated down to 11 megawatts. 21 MR. MORISSETTE: Thank you. Moving on 22 to Question 6, the response says, as a general 23 matter, system control and dispatch is an area

that is fully under the authority and operational

control of ISO New England. But isn't it true

24

that for this type of facility you're basically 1 2 running it at base load and doing a bilateral contract with the parties of the contract, and 3 therefore to the extent that ISO New England is 4 dispatching it, they're not, they're only 5 6 dispatching it in the case of an emergency? THE WITNESS (Devarona): Yeah. And so 7 8 I think that the question, the way that we 9 interrupted the question is, you know, inherently is the dispatch of this unit and the fact that 10 11 it's a variable resource add to the -- or take away from the ability of the ISO New England 12 operators to manage the grid for reserves and 13 reliability. And our response to that is, yeah, 14 15 we do have a solar resource that does have some 16 level of variability based on times of year and 17 weather patterns. Those forecasted values that 18 the unit is going to be expected to be running at are provided to ISO New England for them to take 19 into consideration ensuring that at all times they 20 21 have proper reserves and reliability coverage for 22 their system. 23 Right. MR. MORISSETTE: But your unit will not be dispatched, per se, it's going to run 24 at base load and it is what it is because it's --25

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1
               THE WITNESS (Devarona): Yes.
                                               It will
2
    run to satisfy its contract obligations.
                                               It does
    get potentially curtailed if there's any issue on
3
    the ISO New England system, and so that ends up
4
    being a level of dispatch.
5
               MR. MORISSETTE: I wanted to clarify.
6
7
               MR. SILVESTRI: Just to reinforce that,
8
    though, ISO is not going to call you and say go on
9
    or go ramp up, you're either going to be on or
    you're going to be off depending on the weather
10
11
    conditions?
12
               THE WITNESS (Devarona): Correct.
13
               MR. SILVESTRI: So I want to make that
    clear that you're really not going to be
14
15
    dispatched, you're going to be on, whatever you
16
    could produce for ISO is going to be based on
17
    solar conditions.
18
               THE WITNESS (Devarona):
               MR. SILVESTRI: But again, you can't
19
20
    change that unless the sun changes.
21
               THE WITNESS (Devarona): Correct.
22
               MR. SILVESTRI:
                                Thank you.
23
               MR. MORISSETTE:
                                 Thank you.
                                             I just
24
    wanted to clarify for the record.
25
               Interrogatory Number 12. Referring to
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Tab O, the Tech Environmental acoustic analysis.
1
2
    On Table 1 it says 29 Liepis Road with a maximum
    sound level of 36.9. If I look on Figure 2, and
3
    maybe it's my orientation, let me ask this before
4
    we go on: The substation is specifically included
5
    in the sound analysis based on this report?
6
               THE WITNESS (Huntley): That's correct.
7
8
               MR. MORISSETTE:
                                 I would suspect that
9
    you're getting more higher sound levels from the
    substation than you are from the inverters?
10
11
               THE WITNESS (Huntley): I don't know
12
    the exact levels that were used for each of the
    facilities; however, they did use actual material
13
    specifications when the work was done.
14
               MR. MORISSETTE: It also said that at
15
    night the sound levels are quite low. There's no
16
17
    humming out of the inverters at night?
18
               THE WITNESS (Huntley): No, there's
19
    not.
20
               MR. MORISSETTE:
                                 None at all, zero?
21
               THE WITNESS (Huntley): When the sun is
22
    not shining on the panels, when the panels are not
23
    generating power, the inverters are completely
24
    silent.
25
               MR. MORISSETTE: Back to Figure 2, 29
```

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1
    Liepis Road. I'm trying to put that in relation
2
    to the substation. Can you help me out there?
3
               THE WITNESS (Huntley): Yes.
    location of 29 Liepis Road is closer to an
4
    inverter than it is to the substation by quite a
5
    bit. The substation is across the field, and I
6
    don't know the scale on this drawing, but I would
7
8
    say, you know, several hundred, if not more than
    1,000 feet away from the substation itself.
9
               MR. MORISSETTE: So it's closer to 237
10
    Wauregan Road; is that correct? Am I looking at
11
    that right?
12
13
               THE WITNESS (Huntley): Wauregan Road,
    yes, I believe that's the case.
14
15
               MR. MORISSETTE:
                                 Okay.
                                        So the
    substation is that gray box on the other side of
16
17
    the road?
18
               THE WITNESS (Huntley):
               MR. MORISSETTE:
                                 So I would have
19
20
    thought that 237 Wauregan Road would have the
21
    higher sound levels from the substation than it
22
    would from the inverter. So what that tells me is
23
    that the inverters are making more noise than the
    substation; is that accurate?
24
25
               THE WITNESS (Huntley): I don't think
```

that that's necessarily accurate, but I think it 1 2 is based on proximity. Because the location of 3 that Wauregan Road property is further away from the substation than the Liepis Road property is 4 from the inverter. I think that's why that Liepis 5 Road property has such a high value is because 6 it's significantly closer to that inverter than 7 8 the other properties are to the substation. 9 MR. MORISSETTE: Thank you. That helps 10 put it in perspective. This next topic we talked about at the 11 last hearing, but it's still not clear to me, and 12 it has to do with the increase in panel output. 13 You're now at 410 kilowatts per panel. Previously 14 it was 390. So the output of the panels are all 15 higher, but your output of the facility is the 16 17 same. Now, my interpretation of that is, is that 18 you're limited by the inverters, or is there some other limitation why you are not able to get 19 20 beyond 49 megawatts? 21 THE WITNESS (Cartaya): You're correct 22 in your assumption. The inverters are the 23 delivery in AC ultimately is our point of interconnect. DC on other side, the wattage of 24 25 the modules is limited by -- ultimately converted

```
1
    by those inverters. So to your point, the AC is
2
    going to be fixed by the inverter count.
3
               MR. MORISSETTE:
                                 So you could put in
4
    more inverters, correct?
5
               THE WITNESS (Cartaya): No, and that
    would be because of studies that we've done with
6
    ISO New England.
7
8
               THE WITNESS (Devarona): And I'll lean
9
    on Hagen also for the commercial aspects of the
10
    project, but the interconnection request which
    starts the process of studying the unit is put in
11
    for 50 megawatts of output on the New England
12
13
    system. Anything above that would require a brand
    new interconnection request and study process for
14
15
    ISO New England to go through.
16
               MR. MORISSETTE: Okay. That makes
17
    sense.
            Thank you.
18
               Now, let's turn our attention to costs.
    The 96 million, does it include the switchyard,
19
    the line loop and the double circuit separation?
20
21
               THE WITNESS (Lee): So 96 million is
22
    the total investment cost for the project
23
    including Eversource scope of work.
               MR. MORISSETTE: Would you know what
24
25
    the Enfield project total cost was, your Enfield
```

```
project for comparison purposes?
1
2
               MR. BOGAN: If I may, Mr. Morissette,
3
    typically the company maintains as confidential
    its project costs, although we have provided the
4
    information, I believe, for example, in connection
5
    with the Nutmeg project subject to a
6
    confidentiality order. The reason it was made
7
8
    public here was because the prior project manager
    had disclosed the project price at that time, and
9
    so therefore there was no ability for Mr. Lee or
10
11
    any witness to maintain it as confidential in this
    proceeding. But the Nutmeg project, for example,
12
    it was submitted subject to a protective order.
13
               MR. MORISSETTE:
                                 Okay. Thank you.
14
15
               MR. BOGAN: Thank you.
16
               MR. SILVESTRI:
                               Thank you, counselor.
17
               MR. MORISSETTE: I'll continue with
18
            My understanding is that CL&P, as we
    discussed with Eversource earlier, they are
19
    purchasing 40.18 and United Illuminating is
20
21
    purchasing 9.82, so that's about 50 percent of the
22
    output. What would you say the impact of this
23
    project is on Connecticut ratepayers from a cost
    perspective?
24
25
               MR. BOGAN: If you know.
```

MR. MORISSETTE: It doesn't need to be 1 2 a dollar figure. I'm talking conceptually what's the impact on Connecticut ratepayers. 3 I know the answer. I could tell you. 4 THE WITNESS (Lee): Solar generation 5 6 helps Connecticut meet its renewable energy goals. Also, by nature solar energy generation coincides 7 8 with summertime peak hours. I would imagine in that regard it would be beneficial to the 9 Connecticut ratepayers. 10 11 MR. MORISSETTE: Let's try this another way. Of the 96 million, would you say that 12 Connecticut ratepayers are on the hook for 50 13 percent, or are they on the hook for the kilowatt 14 hours, 50 percent of all the kilowatt hours that 15 are exported from the facility? 16 17 (Off the record discussion.) THE WITNESS (Lee): I don't know what 18 the offtakers do in terms of distributing their 19 20 cost. From the developer's perspective, we 21 finance this project up front and recoup our costs 22 over 30 years. And if you want to break down the 23 rate of recuperation from this project by offtaker, I would say approximately it would break 24 25 down according to offtaker percentage.

```
1
               MR. MORISSETTE: So Connecticut would
2
    purchase 50 percent, and that would be the
    financial obligation of CL&P and UI combined?
3
               THE WITNESS (Lee): Not exactly because
4
    the last ten years of this project finance is done
5
6
    through a merchant assumption.
               MR. MORISSETTE:
7
                                 True.
8
               THE WITNESS (Lee): And that goes into
9
    NEPOOL, and that doesn't go straight to any
    specific offtaker.
10
               MR. MORISSETTE:
                                 Thanks for clarifying
11
    that. Can we just quickly go through which
12
    wetlands are impacted by the 50-foot boundary?
13
    want to beat a dead horse here.
14
15
               THE WITNESS (Nickerson): The best way
    to look at this is the wetland report from May
16
17
    2019, Figure 2.
18
               MR. MORISSETTE: Actually, I'm looking
    at this blowout that was provided in the
19
20
    interrogatories.
21
               THE WITNESS (Nickerson): That's a
22
    similar figure, correct.
23
               MR. MORISSETTE:
                                 Great.
                                         Thank you.
               THE WITNESS (Nickerson): So it points
24
    out wetlands 18, 20, wetland 8, part of -- sorry,
25
```

```
1
    part of wetland 18, part of wetland 9, wetland 1,
2
    and a small portion of wetland 2.
3
               MR. MORISSETTE: Could you go a little
4
    slower?
               THE WITNESS (Nickerson): Yeah.
5
                                                 So
    there are six total.
6
               MR. MORISSETTE: Six, okay.
7
                                             I got two.
8
               THE WITNESS (Nickerson): Wetland 18
9
    partially, wetland 20 partially, wetland 8, part
    of wetland 9, wetland 1 and wetland 2. The other
10
    way to look at this is in the legend you can see
11
    the orange 50-foot buffer.
12
               MR. MORISSETTE: Okay. Got you.
13
    That's helpful. Great. Thank you.
14
15
               THE WITNESS (Nickerson): No problem.
16
               MR. MORISSETTE: Last question. Could
17
    you briefly describe what a typical average day
18
    output would look like? I didn't see anything in
    the petition that described. I'm assuming that
19
20
    the facility peaks at 10 or 11 and peaks for a few
21
    hours and then starts to decline as the sun gets
22
    weaker?
23
               THE WITNESS (Lee): Similar to most
    solar facilities, it does peak in the afternoon
24
25
    hours, and it looks very similar to a bell curve
```

```
1
    if you plot out 0 to 24 hours. And we're
2
    expecting just over 90,000 megawatt hours per year
3
    in generation.
               MR. MORISSETTE: So 3 or 4 in the
4
    afternoon it's at a lower level than, say, 11 or
5
    12?
6
               THE WITNESS (Cartaya): It changes by
7
8
    season too. So, you know, summer solstice higher,
    longer bell curve, and in the winter you'll see
9
    that shrink a little bit.
10
11
               MR. MORISSETTE: Thank you. That's all
12
    the questions I have.
13
               MR. SILVESTRI: Thank you, Mr.
14
    Morissette.
15
               Just to follow up on that part with the
16
    bell curve. You mentioned it could be wider, but
17
    it could also be taller, correct, depending on the
18
    position of the sun and output?
19
               THE WITNESS (Cartaya): That's correct.
20
               MR. SILVESTRI: Okay. One other
21
    follow-up.
22
               THE WITNESS (Huntley): I'm sorry.
23
    I could add on to that?
24
               MR. SILVESTRI:
                                Sure.
25
               THE WITNESS (Huntley): The height of
```

```
that bell curve is limited by the AC output of the
1
2
    system. That's the point of the AC/DC
    relationship that we have on the site.
3
    not taller with what's actually leaving the site.
4
                               Thank you. And one
5
               MR. SILVESTRI:
    other follow-up I had from Mr. Morissette about
6
    the inverters. Is inverter noise directional?
7
8
               THE WITNESS (Cartaya): So to answer
9
    that, yes and no. The reason is really what
    you're hearing is the fan, the cooling fan, or
10
11
    some mechanism that's kicking in to cool down the
    inverter that's on a certain side of the inverter
12
    that could be directional, but overall it can be
13
    heard. And I want to state that it's not very
14
           So, you know, you're a couple, 50 feet away
15
    loud.
    it's very inaudible, but nonetheless.
16
17
               MR. SILVESTRI: Thank you.
18
               I'd like to go now to Mr. Lynch.
               MR. LYNCH: Thank you, Mr. Chairman.
19
20
               A few questions. I'm just trying to
21
    find out what they are. Let's start out with a
22
    few quick ones. As far as federal and state tax
23
    credits and subsidies are concerned, when are you
    eligible for them; and two, if you are, how long
24
25
    are they in place, when do they start to go away?
```

```
1
               MR. BOGAN: If you know the answer.
2
               THE WITNESS (Lee): This project is
    eligible for ITC tax credit.
3
               MR. LYNCH: Sorry, I can't hear you.
4
               THE WITNESS (Lee): Quinebaug is
5
    eligible for ITC, investment tax credit.
6
7
               MR. LYNCH: Now, coming back to your
8
    contractors for a second, do you have separate
    contractors for clearing the land, or is it one
9
    contractor who will clear the land and put up your
10
11
    racks and the panels?
12
               THE WITNESS (Cartaya): Typically we'll
13
    have one contractor do all. This may be a
    separate case, so we are open to both at
14
15
    Quinebaug. We may have someone clear, a
16
    contractor clear for us earlier, but in most cases
17
    we'll have one contractor do all the activities.
               MR. LYNCH: Will that contractor also
18
    be responsible for maintenance and repairs for any
19
20
    panels or inverters that may be damaged?
21
               THE WITNESS (Cartaya): No, sir, that
22
    would be part of our operations and maintenance
23
    team.
                            Thank you.
24
               MR. LYNCH:
25
               THE WITNESS (Cartaya): Just as a
```

```
1
    caveat, unless it's during construction and part
2
    of the installation --
               MR. LYNCH: No, I meant --
3
               THE WITNESS (Cartaya): After?
4
5
               MR. LYNCH: We're in New England so we
    get storms all the time.
6
               THE WITNESS (Cartaya):
7
8
    Post-construction it would be on us.
9
               MR. LYNCH: Now, this question is a
    little off the reservation, but I'm going to ask
10
11
    it anyhow. We're in an era now of acquisitions
    and mergers as far as companies are concerned.
12
                                                      Ιf
    your company is bought five, ten years down the
13
    road -- this may be a question for Mr. Bogan -- do
14
15
    the contracts, are they assigned, or do they stay
    with the company, or does the buyer, do they go
16
17
    with the new buyer? Sorry to make you testify,
18
    Mr. Bogan.
               MR. BOGAN:
                            That's okay. I was going
19
20
    to say at the risk of testifying, and I don't
21
    recall the specific provision of the PPA, but
22
    typically, particularly given that it's a contract
23
    with the state, it's conditioned upon certain
    obligations that would be undertaken by the
24
25
    acquiring entity.
```

MR. LYNCH: Now, this question I actually did my own research on. The people who live in Florida won't be able to answer it, but the ones in Maine might be able to. A couple -last month we had two snowstorms, ice storms back to back. And I noticed in my evening walk, cigar walk, that some of the residential panels were covered with first snow and then ice, because the two storms were identical, one after the other. And according to your interrogatory, they would melt off and fall down. They did not. Now, this is at a residential area so I was curious. there are two smaller solar farms near me, and I went over to see if it was the same there, and it was. Now, does the ice prohibit the snow

1

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23

24

25

Now, does the ice prohibit the snow from sliding off, and if your panels are covered you're not putting any output. Can you explain what's happening here?

THE WITNESS (Cartaya): So as part of our production modeling, all soiling, as stated earlier, is assumed. That includes snow, that includes dust from mining, and really any other event. So those are anticipated. And that's why, when you look at our production curve, you'll see

a significant drop in the wintertime due to lower sun and also snow soiling.

MR. LYNCH: Now, my follow-up would be, does this heavy ice, not necessarily snow, but does heavy ice do damage to the panels and their effectiveness?

THE WITNESS (Cartaya): They don't do damage to the panel itself. Effectiveness, if you're referring to production, yes. But if once the ice melts did it do any damage to the panel actually being able to produce? No.

MR. LYNCH: Now, my next questions, if you were part of the last panel that testified here you'll be aware of what they are. I already know the answers to them. And they revolve around fire protection. And I noticed in looking at your diagrams is that you have limited access roads and limited exit roads. And to fire departments, whether they're paid or volunteer, they want to be able to get in and out of areas; they don't want to be trapped. Are you going to identify your exit areas, or would you put in more exit areas after talking to the fire department?

THE WITNESS (Huntley): So I think the general answer to that is that we've tried to

```
design the access roads to be as efficient as
1
2
    possible to provide clean and clear access to all
    of the inverter locations.
                                 The inverters and the
3
    transformer locations we would anticipate are the
4
    areas that have the highest likelihood of
5
    something that could actually combust. From that
6
    perspective, there are a number of ingresses and
7
8
    egresses on the site currently where there are a
9
    few areas there are some dead ends to get to these
    inverters, but the majority of the areas where
10
11
    there are inverters are along a road that goes
    from one area to another where there could be, you
12
13
    know, a straight shot in and out.
14
               MR. LYNCH: You led into my next
    question really. As far as the transformer and
15
    the inverters are concerned during a fire, I
16
17
    assume that Eversource would turn off the
18
    transformers. Who turns off the inverters?
               THE WITNESS (Huntley): The inverters
19
    actually I think in this location would need to be
20
21
    isolated by somebody on site. So my
22
    anticipation -- all right, go ahead.
23
               THE WITNESS (Cartaya): So in the case
    of a fire, the inverter could be shut down, would
24
    be shut down, and remotely as well, if I'm not
25
```

mistaken, so those can be isolated immediately to 1 2 not affect the grid or in the case of our point of 3 interconnection. MR. LYNCH: Even with the inverters off 4 and a bright sunny day, those panels are still 5 hot. Can anyone be -- get a shock, I'm sure, from 6 these, or could they do further damage? 7 8 THE WITNESS (Cartaya): So each string has a shut-off as well. And that is where the 9 fire department will be trained by our teams to 10 11 how to deal with that electrically, so I don't believe that will be an issue. 12 13 MR. LYNCH: You're leading into my next questions. Would you offer the area fire 14 15 departments -- they're all volunteer out there -any training or expertise of special equipment, 16 17 same question I asked Eversource? 18 THE WITNESS (Huntley): Yes. intention is that Quinebaug Solar would provide 19 training to the local fire departments for what's 20 21 required in the case of an emergency on the site. 22 MR. LYNCH: And if they needed special 23 equipment, I know some electrical fires are fought with foam or Co2. Would you be able to provide 24 that until our legislature comes up with, you 25

1 know, does away with the foam? 2 THE WITNESS (Huntley): The answer to 3 that, I believe, is that the emergency responders would be taught on what the appropriate method is 4 for attacking the site, attacking a fire, what to 5 do, what to turn on, what to turn off, and how to 6 get there. And I don't believe that there's any 7 8 significant specialty equipment that would be required for that. 9 MR. LYNCH: Would this be hands-on 10 training or classroom? 11 12 THE WITNESS (Huntley): I expect it 13 would probably be a combination of both. 14 MR. LYNCH: Pardon? 15 THE WITNESS (Huntley): Likely some combination of both with an onsite level as well. 16 17 And if I can add to your earlier 18 comment with the question about the panels and their capability to generate in the case of a 19 There's a significant grounding system 20 that's put on the site as well as on the racking. 21 22 So there are safety precautions in place. 23 touching a panel shouldn't have any issue from an electrical point of view, there is grounding in 24 25 place.

```
1
               MR. LYNCH: That's understandable.
2
    Thank you.
               Now, I noticed that -- would you allow
3
    the fire marshal or the fire chief in the area to
4
    come and do an inspection after you're up and
5
6
    running of the facility and then periodic
    inspections of the facility?
7
8
                THE WITNESS (Lee): We work very
9
    closely with the town, and town leadership often
    requests that, so we're open to that.
10
11
               MR. LYNCH:
                            Thank you. Now, as far as
    technology is concerned -- I've asked this
12
    question many times on these panels -- there's a
13
    thing called Morse law or Morse principle which
14
15
    says all technology changes within 18 months.
16
    Now, that having been said, it could take longer
17
    or shorter. But with the advent of new technology
18
    whether it's regarding your panels or, you know,
    some new type of inverters that come along that
19
20
    would increase your output, you know, would you in
21
    the future think of changing or developing these
22
    technologies?
23
               THE WITNESS (Lee): So we don't develop
    the product but --
24
25
               MR. LYNCH: No, that has been
```

```
1
    developed. Let me put it that way.
2
               THE WITNESS (Lee): Yes. This project
3
    has fully been calculated. The return has been
    calculated based on these specified equipment.
4
    It's highly unlikely that we will go in and redo
5
6
    the work once it's operating.
               MR. LYNCH:
7
                           Okay.
8
               THE WITNESS (Lee): Our plan is to
9
    install it and operate it for 30 years.
               MR. LYNCH: One of the technologies
10
    that's being developed and is being used out in
11
    California by Native Americans are batteries for
12
    their solar panels. And you mentioned here that
13
    you're not going to use batteries. Why not?
14
15
               THE WITNESS (Lee): I wasn't part of
    the contracting team. When this project was
16
    contracted in 2017, a number of things could have
17
18
    gone on. They may have not been looking to
    procure storage. As I understand, storage
19
20
    procurement is a recent phenomenon. And I did bid
21
    a storage project in a more recent RFP.
    don't know if the procurement agency was looking
22
23
    for storage at that time.
               MR. LYNCH: The reason I'm asking is
24
25
    because Connecticut has their green project goals
```

```
set up for 2004 to 2050. I forget the exact date.
1
2
    And we get appearing before us all the time the
    environmentalist that say you have to go green to
3
    get rid of fossil fuels. And it would just seem
4
    to me that batteries which would help you operate
5
6
    when there's no sun would be something you'd want
    to incorporate.
7
8
               THE WITNESS (Lee): Yes, I absolutely
9
            Energy storage provides great flexibility
    and helps shift intermittent resources so that you
10
11
    can address energy demand more efficiently.
12
    absolutely agree.
13
               MR. LYNCH: So are you saying in your
    agreement that if Mr. Musk or UTC here in
14
15
    Connecticut, which is also working on storage
16
    batteries, come up with something in the future,
17
    you may incorporate that?
18
               THE WITNESS (Lee): We look at all
    technology available to us, and we're pushing
19
20
    storage quite aggressively not only in this region
21
    but nationwide. So if Connecticut were to procure
    storage, we would be the first ones to bid on
22
23
    that.
24
               MR. LYNCH:
                            I know there's two
```

companies, I won't name them, but there's two

```
1
    companies in Connecticut working on battery
2
    storage. And that's all, Mr. Chairman.
3
               MR. SILVESTRI: Thank you, Mr. Lynch.
               I have a few follow-ups based on
4
    Council members' questions before I get to my own.
5
    And I wanted to start with Mr. Lynch when he was
6
    talking about the ice and snow issue.
7
                                            I'm aware
8
    with wind turbine developments that they're coming
9
    in with heaters now to try to keep ice off of
    them. The question I pose to you, is there
10
11
    anything on the horizon or available now for
    heaters with solar panels that granted they would
12
    take away some of your output, but is there
13
    anything there that helps get rid of ice and snow?
14
15
               THE WITNESS (Lee): There are early
    stage technologies out there. However, the degree
16
17
    to which it has been commercialized hasn't been
18
    proven yet, and I don't think it's ready for this
    project. We do take into consideration, to my
19
    colleague's point earlier, a certain number of
20
21
    snow days and ice days per year, and we have high
22
    confidence that those days are sufficiently baked
23
    into our model to, you know, account for snow and
24
    ice losses.
25
               MR. SILVESTRI: I appreciate that.
```

```
Like I said, I know it's out there for other types
1
2
    of technology. I didn't know if anything was on
3
    the horizon yet. And it seems like it may be
    coming, but not commercially available from what
4
5
    you responded.
               I also wanted to follow up on a couple
6
    things that Mr. Hannon brought up. Go back to the
7
8
    fly ash. When fly ash was mentioned, and again
9
    it's still iffy as to what might happen with it,
    if it happens at all, was the fly ash anticipated
10
11
    from a certain combustion product?
12
               THE WITNESS (Huntley): The reference
13
    to fly ash came directly out of a third-party
    geotechnical report that was done as a possible
14
15
    way for some ground improvements. It certainly
    wasn't anything that was thought out beyond
16
17
    mentioning as one of the possibilities in my
18
    opinion on that.
               MR. SILVESTRI: All right, just to go
19
20
    on.
         And again, from what Mr. Morissette said, not
21
    to beat a dead horse, but was the intention of
    that in the report to be used as a flowable fill
22
23
    or a pozzolanic property in concrete or any other
    type of context?
24
```

THE WITNESS (Huntley): The context

```
1
    that I read in that report was for stabilizing
2
    some potentially liquid soil. So I think that the
    idea is that it would be from an inclusion in a
3
    mixture point of view, not necessarily as a
4
    component within a concrete product. I think it
5
    was a high-level term that was used for potential
6
    suggestions for soil stabilization.
7
8
               MR. SILVESTRI: The other thing, you
9
    were talking with Mr. Hannon about grout. What's
    the composition of grout?
10
11
               THE WITNESS (Huntley): Grout is
    essentially a concrete, a curable product that has
12
    flowable properties. So it typically has a
13
    smaller aggregate than a structural concrete, but
14
15
    it's a flowable concrete product essentially.
16
               MR. SILVESTRI: I'm aware of grout with
17
    fly ash in it. Are you looking at that type of
18
    material there as well, or would it be fly ash
    free?
19
20
               THE WITNESS (Huntley): Again, I think
21
    in my comment of suggesting that we wouldn't use
22
    fly ash in itself on the site, only in a location
23
    where it would be bound up in a concrete product
    was my recommendation. That said, I'm not sure
24
25
    that I can say that we would, you know, either
```

```
1
    include or not fly ash anywhere at all on the
2
    project where fly ash is generally allowed within
    the industry on a concrete product is what the
3
    flexibility that I was requesting.
4
                                Thank you for your
5
               MR. SILVESTRI:
6
    comments.
               Questions that I had, I'd like to start
7
8
    off with the panels, and I'm not sure which person
9
    might be the panel expert. But the first question
    I have on panels is, are they crystalline silicon
10
11
    panels?
12
               THE WITNESS (Cartaya):
                                        Yes.
               MR. SILVESTRI: Thank you. Are they
13
14
    free of cadmium telluride?
15
               THE WITNESS (Cartaya):
                                        Yes.
16
               MR. SILVESTRI: Thank you also.
17
    half-cell modules now becoming the norm?
18
               THE WITNESS (Cartaya): I don't think
    there is a norm in the module technology right
19
    now, to reference Mr. Lynch's comment about Morse
20
21
    law.
          There's a lot of monocrystalline and
22
    polycrystalline modules out there. We are going
23
    to explore the best option at the time of
    procurement for this project.
24
               MR. SILVESTRI: What I found in my own
25
```

research is that the half cells kind of give you 1 2 more power and more efficience compared to other 3 types that are out there, but that's why I kind of asked the question about quote/unquote the norm 4 5 now. 6 THE WITNESS (Cartaya): Yeah, if they're available, we'll buy them, but at the time 7 8 of procurement for this project we'll look at the 9 best possible product we can buy. MR. SILVESTRI: One other question on 10 the panels. They're designated, from what I saw, 11 as PID free or potential induced degradation free. 12 Is there anything special that must be done with 13 the inverters, such as galvanic isolation, 14 installing a reversal device or anything else that 15 16 has to go along with a PID free panel? 17 THE WITNESS (Cartaya): No. 18 MR. SILVESTRI: Thank you. All right, different topic, and this goes back to Exhibit L 19 20 which is the greenhouse gas assessment. 21 exhibit compares the life cycle emissions of Co2 22 equivalence of natural gas with the expected 23 reductions that would occur with the project. Again, EPA kind of sets this up. I'm not happy 24 25 with the way EPA compares things because I don't

```
1
    think EPA puts it necessarily in real-life
2
    situations. For example, you know, taking X
    amount of passenger cars off the road is one of
3
    the things they compare, but obviously a project
4
    like this wouldn't take cars off the road.
5
               But the question I want to pose to you
6
    is, do you know how many million cubic feet of
7
8
    natural gas compares to the listed life cycle Co2
    equivalents that are in there? Because that to me
9
    would be realistic that the solar panel goes out,
10
    probably natural gas doesn't get burned, but I'd
11
    love to know what in terms of million cubic feet
12
    of natural gas that might be.
13
14
               MR. BOGAN:
                            If you know.
15
               THE WITNESS (Lee): That's a great
    question. We'll get back to you.
16
               MR. SILVESTRI: You don't have to get
17
18
           I know the answer, but I just wanted to see
    if you knew the answer. If you want to know the
19
20
    answer, I put it in terms of 30,000 million cubic
21
    feet, so, you know, what does that mean in terms
22
    of generation, it might be 1.7 hours for a
23
    combined-cycle or a single-cycle operation.
    to me that's meaningful information that I can't
24
25
    point a finger at you folks because the EPA
```

graphic that's there just doesn't include things like that, but I wish it would.

We kind of touched on the State
Historic Preservation Office earlier in the
conversations, their letter dated January 9th.
And on a couple of the pages they recommend or
suggest that if you don't bifurcate the stone
walls and you include different things that are
there. One, I don't know your opinion on, or what
you plan to do based on the SHPO recommendations
that are there, or if you had any further
conversations with SHPO, so I'm kind of curious
how you left off with the January 9th letter with
them.

THE WITNESS (George): I met with them just prior to the January 9th letter to discuss this and other aspects of the project. They are content with the small breaching of the stone walls to make the project area viable for truck traffic and construction, and then NextEra will leave the remainders of the wall in place being good stewards of resources.

There's only a few sensitive areas.

Two of them are adjacent to a historic cemetery in the property, and that the SHPO has required a

```
50-foot buffer for any breach from the cemetery
1
2
    itself, and I believe we are even a little bit
    past 50 feet. So that's where we left off with
3
    SHPO in that conversation.
4
               MR. SILVESTRI: Thank you. This might
5
6
    be the last question I have. And again, this was
    touched on earlier about the watercourses that are
7
8
    in the area. But if you look at Exhibit D,
9
    specifically on page 6, at the bottom of Section
    3.1 entitled Wetlands and Watercourses, there's a
10
11
    sentence that says, "Two perennial watercourses,
    Cold Spring Brook and Blackwell Brook, border the
12
    study area on the western boundary. A more
13
    detailed account of these resources is provided in
14
15
    the wetland and the watercourse delineation report
16
    in Appendix C."
17
               Now, unless it was missing from my
18
    copy, I can't find any details of Cold Spring and
    Blackwell Brooks in Appendix C of Exhibit D.
19
    I miss it? Was it not in mine, or could you
20
21
    explain why this statement is there but I can't
    find the details?
22
23
               THE WITNESS (Nickerson): So if you
    look at Table 1, which is Appendix A of the
24
```

wetland report.

```
1
               MR. SILVESTRI: So it's not Appendix C?
2
               THE WITNESS (Nickerson): Well,
    Appendix C contains the wetland report. The
3
    wetland report contains Appendix A.
4
               MR. SILVESTRI: So I'm confused
5
6
    already, but go ahead.
               THE WITNESS (Nickerson): Either way
7
8
    the -- I'm sorry, it's Table 2 has a summary of
    the resources, the watercourse resources.
9
                                                Table 1
    is the summary of the wetland resources.
10
                                               Table 2
11
    is a summary of the watercourse resources, and
    there's a further description of those resources
12
13
    in that table.
14
               MR. SILVESTRI: I'm not going to take
15
    the time to open up the page right now, but could
16
    you briefly summarize the survey for those brooks?
17
               THE WITNESS (Nickerson): Sure.
                                                 These
18
    watercourses were included in the follow-up
    wetland delineations that we conducted after the
19
    original petition. The delineation maps the
20
21
    boundary of those watercourses and characterizes
22
    just sort of the general ecology, the type of flow
23
    and the bottom and the substrate and the
    surrounding ecology.
24
25
               MR. SILVESTRI: Species as well?
```

THE WITNESS (Nickerson): Plant species, anecdotal observations of wildlife, but that's not necessarily the intention of the wetland and watercourse delineation survey.

MR. SILVESTRI: My final question, at least at this point, and we kind of hinted to it earlier, but I want to again revisit it. Do you anticipate a temperature increase in runoff from the panels specifically in a midsummer condition where you have a pop-up rainstorm? So your panels are already exposed to the sun for a period of time, and all of a sudden a little storm comes in and rainwater happens.

interesting question, and I think it comes back to a number of anecdotal situations that I've run into on these projects over the years, that what I would say is in the specific condition that you described we do not anticipate any increase in the temperature of that runoff. And I'll elaborate a little further that the nature of these solar panels is to convert the solar energy into electricity, therefore using some of the energy that's coming down on the ground. If the solar panels weren't in place, you would likely have

```
1
    hotter temperatures of the soil beneath these
2
    panels. So, you know, from that perspective, a
    pop-up shower falling on soil that's been heated
3
    up from the sun versus a pop-up shower falling on
4
    these panels and then running off onto the ground
5
    beneath it, we would not anticipate any increase
6
    in temperature of that runoff.
7
8
               MR. SILVESTRI: Thank you for your
9
               I don't have any further questions, but
    I did want to go back to Mr. Perrone to see if he
10
11
    had any follow-ups at this time.
12
               MR. PERRONE: Just one final question.
13
    I understand the increase in panel wattage since
    the previous configuration and the adjustment of
14
15
    panel quantity. My very last question is, what
16
    factors led to the change in the angle from 25
17
    degrees the first time to 18 this time?
18
                THE WITNESS (Cartaya): That's just a
    product of optimization. So running iterations
19
20
    and seeing what best works for this region, sun,
21
    et cetera, and coming up with the best design.
22
               MR. PERRONE:
                              To optimize energy
23
    output?
                THE WITNESS (Cartaya): Correct.
24
25
               MR. PERRONE:
                              Okay.
```

1 THE WITNESS (Lee): Can I elaborate on 2 that? So the panel wattage was not the only one that changed. Our footprint changed introducing 3 300 percent more buffer and protection area 4 significantly shrunk our developable footprint. 5 6 So to optimize a smaller piece of land we ran, I think, over 10,000 simulations and different 7 8 layout simulations. So that's why the parameters 9 changed. MR. PERRONE: Thank you. I'm all set. 10 11 MR. SILVESTRI: Thank you, Mr. Perrone. 12 Mr. Hannon had a comment. MR. HANNON: You might want to go back 13 and take a look at map C-051 and redo your 14 calculations for the elevations of the spillway 15 16 because I do believe it's wrong. You actually 17 created a depression in the spillway. That should be 259.5 and not 257.5. 18 THE COURT REPORTER: And not 257? 19 MR. HANNON: I don't think it should be 20 257.5 which is there because that creates a 21 22 depression. It should probably be 259.5 which 23 would be more consistent with the other projects, 24 and that was the reason why I started looking at all of the basins. 25

1 THE WITNESS (Huntley): Thank you. 2 MR. SILVESTRI: Thank you, Mr. Hannon. 3 Mr. Levesque, do you have any other questions? 4 No, thank you. 5 MR. LEVESQUE: MR. SILVESTRI: Mr. Harder? 6 MR. HARDER: Yes, actually. 7 8 first a preliminary question. I think at the hearing out in Brooklyn I made a comment that I 9 guess expressed some concern about what I call the 10 11 fragmented nature of the development areas in the southern part, maybe southeastern part of the 12 13 project. And I'm looking actually now at Figure 1A, the project overview comparison. Obviously 14 15 there's a lot of area that was originally proposed 16 that's no longer proposed for development. 17 And I guess two parts: One, my concern 18 about the fragmented nature. I guess a lot of 19 times concerns expressed about fragmented -- about 20 development resulting in fragmented resource 21 areas, and some negative issues there, I think 22 there's an element of that here. I believe that 23 in one area the use of directional drilling is required to go under a wetland or a watercourse. 24 I think there's some of the areas that are closer 25

to the wetlands around that area.

So I'm thinking, well, okay, maybe instead of utilizing those areas, kind of step back and use some of the areas that were originally proposed that are more contiguous with some of the larger areas that are proposed now. But the question, I guess, the bigger question that gets me to is the issue of possible reductions in the capacity that we talked about at the last hearing. 

And I'm looking now at the Late-Filed exhibit, the January 28th submission. The response to Question C to me is confusing. The question, basically, is indicate whether the PPAs allow any flexibility in the capacity of the project so for any reason if the capacity is reduced. And the response is the PPAs allow up to 10 percent reduction if three conditions are met, but then the next sentence says Quinebaug Solar would not be able to satisfy these conditions if the capacity were reduced which sounds confusing, at best.

So I guess the bottom line question is, can you for whatever reason reduce the capacity of the system and still meet your contractual

```
1
    obligations or not?
2
                THE WITNESS (Lee):
                                    No.
3
               MR. HARDER: So why is that response --
    I mean, the response starts off by saying they
4
    allow up to a 10 percent reduction, but then you
5
6
    say basically if you reduce the capacity you can't
    meet your obligation. I mean, it seems
7
8
    immediately contradictory.
9
               MR. BOGAN: Mr. Harder, may I have one
    second?
10
11
                (Pause.)
12
                THE WITNESS (Lee): So, in order to
    obtain the nameplate reduction, we have to meet
13
    these three conditions. And in order to meet
14
15
    these three conditions, the petitioner would have
16
    to take on extra obligations, and we would not be
17
    able to declare commercial operation because of
18
    those new obligations.
                             I mean, is that regardless
19
               MR. HARDER:
20
    of capacity reduction or not? I guess I'm
21
    not -- I'll put my confusion aside. I guess I'll
22
    go back to your answer. So you're not able to
23
    reduce the capacity within your existing --
24
               THE WITNESS (Lee): No, we're not able
25
    to.
```

```
1
               MR. HARDER: Okay. Thank you. That's
2
    all I have.
3
               MR. SILVESTRI: Thank you, Mr. Harder.
               Again, final call for Council members
4
    at this time? Are there any other questions?
5
6
               (No response.)
7
               MR. SILVESTRI: And hearing and seeing
8
    none, I'll say fine.
9
               I'd like to continue cross-examination
    of the petitioner by the parties. Eversource
10
11
    would be first, Attorney Dubuque.
12
               MS. BARBINO DUBUQUE: Thank you, Mr.
13
    Silvestri. Eversource has no questions for this
14
    panel.
15
               MR. SILVESTRI: Thank you. The other
16
    party would be Mr. Sposato.
17
               (No response.)
18
               MR. SILVESTRI: And again, hearing and
    seeing that he's not here, we do not have any
19
    other cross-examination.
20
               MS. BOUCHER: Mr. Hearing Officer,
21
    could we have a five-minute break to decide
22
23
    whether or not we need to recross?
24
               MR. SILVESTRI: Need to --
25
               MR. BOGAN: Redirect.
```

```
1
               MS. BOUCHER: To redirect. I'm sorry.
2
               MR. SILVESTRI:
                                Sure.
3
                (Pause.)
               MR. SILVESTRI: Ms. Boucher, before we
4
    go, I'd like our attorney just to comment on that
5
    because that might be out of bounds.
6
               MS. BOUCHER: Sure.
7
8
               MS. BACHMAN: We typically do not allow
9
    for redirect.
               MS. BOUCHER: Understood.
10
               MR. BOGAN: Very well.
11
12
               MR. SILVESTRI: And my apology.
               With no further questions from the
13
    Council, no further cross-examination of the
14
15
    petitioner by the parties, before I do close the
16
    evidentiary record of this matter, the Connecticut
17
    Siting Council announces that briefs and proposed
18
    findings of fact may be filed with the Council by
    any party or intervenor no later than March 5,
19
    2020. The submission of briefs or proposed
20
21
    findings of fact are not required by this Council;
22
    rather, we leave it to the choice of the parties
23
    and intervenors.
24
               Anyone who has not become a party or
    intervenor but who desires to make his or her
25
```

```
views known to the Council, may file written
1
2
    statements with the Council within 30 days of the
    date hereof.
3
                The Council will issue draft findings
4
    of fact, and thereafter parties and intervenors
5
    may identify errors or inconsistencies between the
6
    Council's draft findings of fact and the record;
8
    however, no new information, no new evidence, no
9
    argument, and no reply briefs without our
    permission will be considered by the Council.
10
11
               Copies of the transcript of this
    hearing will be filed at the Clerk's offices in
12
    the Towns of Brooklyn, Canterbury and Plainfield
13
    and the City of Norwich for the convenience of the
14
15
    public.
16
               I hereby declare this hearing
17
    adjourned. I thank you all for your
18
    participation. And please drive safely.
               MR. BOGAN: If I may, the record is
19
    closed now, the Sposato information is denoted as
20
    available for verification as a full exhibit.
21
22
    That was never dealt with, so it shouldn't come in
23
    as a full exhibit, but I certainly have no
    objection to it being in the record as public
24
25
    comment.
```

```
1
               MS. BACHMAN: Attorney Dubuque, do you
2
    have any objection to Mr. Sposato's prefile
    testimony coming into the record as an exhibit?
3
               MS. BARBINO DUBUQUE: Eversource has no
4
    objection.
5
6
               MS. BACHMAN: And Attorney Bogan, you
    indicate that you do have an objection.
7
8
               MR. BOGAN: That would be correct, but
9
    I have no objection to it coming in as public
    comment. And what I would say is it hasn't been
10
11
    verified by Mr. Sposato nor has he been available
    for cross-examination, so it would be
12
    inappropriate to handle it as a full exhibit.
13
14
               MS. BACHMAN: Ordinarily, Attorney
15
    Bogan, since you did respond to his
16
    interrogatories, I think you've had a chance at
17
    least to respond to some of his concerns, but it's
18
    historically been this Council's practice to let
    these type of things in for what they are worth
19
20
    understanding you have an objection.
21
               MR. BOGAN:
                           Understood.
22
               MS. BACHMAN:
                              Thank you.
23
               MR. SILVESTRI:
                                Thank you, counselor.
               (Whereupon, the witnesses were excused
24
25
    and the hearing concluded at 3:52 p.m.)
```

## 1 CERTIFICATE

2

I hereby certify that the foregoing 130 pages 3 are a complete and accurate computer-aided 4 transcription of my original stenotype notes taken 5 of the Continued Public Hearing in Re: 6 PETITION NO. 1310A, QUINEBAUG SOLAR, LLC PETITION FOR A 7 8 DECLARATORY RULING PURSUANT TO CONNECTICUT GENERAL STATUTES 4-176 AND SECTION 16-50k FOR THE PROPOSED 9 CONSTRUCTION, MAINTENANCE AND OPERATION OF A 50 10 11 MEGAWATT AC SOLAR PHOTOVOLTAIC ELECTRIC GENERATING 12 FACILITY ON APPROXIMATELY 561 ACRES COMPRISED OF 13 29 SEPARATE AND ABUTTING PRIVATELY-OWNED PARCELS 14 LOCATED GENERALLY NORTH OF WAUREGAN ROAD IN CANTERBURY AND SOUTH OF RUKSTELA ROAD AND ALLEN 15 16 HILL ROAD IN BROOKLYN, CONNECTICUT, which was held 17 before ROBERT SILVESTRI, Presiding Officer, at the 18 Public Utilities Regulatory Authority, 10 Franklin Square, New Britain, Connecticut, on February 4, 19 20 2020.

21

22

23

24

25

Lisa L. Warner, CSR 061

Court Reporter
BCT REPORTING, LLC

55 WHITING STREET, SUITE 1A

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