

STATE OF CONNECTICUT
SITING COUNCIL

* * * * *
 * JUNE 26, 2012
 THE CONNECTICUT LIGHT & POWER COMPANY * (11:14 a.m.)
 *
 RE: CONNECTICUT PORTION OF THE *
 INTERSTATE RELIABILITY PROJECT * DOCKET NO: 424
 *
 * * * * *

BEFORE: ROBIN STEIN, CHAIRMAN

BOARD MEMBERS: Colin C. Tait, Vice Chairman
 Brian Golembiewski, DEP Designee
 Larry Levesque DPUC Designee
 Edward S. Wilensky
 Philip T. Ashton
 James J. Murphy, Jr.
 Dr. Barbara Bell

STAFF MEMBERS: Linda Roberts, Executive Director
 Christina Walsh, Siting Analyst
 Melanie Bachman, Staff Attorney

APPEARANCES:

FOR THE APPLICANT, CONNECTICUT LIGHT & POWER
COMPANY:

CARMODY & TORRANCE, LLP
 195 Church Street
 P.O. Box 1950
 New Haven, Connecticut 06509-1950
 BY: ANTHONY M. FITZGERALD, ESQUIRE

JANE P. SEIDL
 SENIOR COUNSEL
 NORTHEAST UTILITIES SERVICE COMPANY
 P.O. Box 270
 Hartford, Connecticut 06141-0270

POST REPORTING SERVICE
 HAMDEN, CT (800) 262-4102

APPEARANCES (Continued):

FOR THE PARTY, NRG ENERGY, INC.; NRG POWER
MARKETING, INC.; CONNECTICUT JET POWER LLC;
DEVON POWER LLC; MIDDLETOWN POWER LLC;
MONTVILLE POWER LLC, NORWALK POWER LLC, AND
MERIDEN GAS TURBINES, LLC (collectively, NRG):

MURTHA CULLINA, LLP
CityPlace I, 29th Floor
185 Asylum Street
Hartford, Connecticut 06103-3469
BY: ANDREW W. LORD, ESQUIRE

ELIZABETH QUIRK-HENDRY
GENERAL COUNSEL - NORTHEAST REGION
NRG ENERGY, INC.
211 Carnegie Center
Princeton, New Jersey 08540-6213

FOR THE PARTY, THE CIVIES:

VICTOR CIVIE (PRO SE)
160 Beech Mt. Road
Mansfield, Connecticut 06250

RICHARD CIVIE (PRO SE)
43 Main Street
East Haven, Connecticut 06512

FOR THE PARTY, EQUIPOWER RESOURCES CORP.,
LAKE ROAD GENERATING COMPANY LP, AND
MILFORD POWER COMPANY LLP,
(collectively, EquiPower):

ROBINSON & COLE LLP
280 Trumbull Street
Hartford, Connecticut 06103
BY: DAVID W. BOGAN, ESQUIRE
KENNETH C. BALDWIN, ESQUIRE

DONNA PORESKEY, SENIOR VICE PRESIDENT
GENERAL COUNSEL
EquiPower Resources Corp.
100 Constitution Plaza, 10th Floor
Hartford, Connecticut 06103

APPEARANCES (Continued):

FOR THE UNITED ILLUMINATING COMPANY:

BRUCE L. MCDERMOTT, ESQUIRE
UIL HOLDINGS CORPORATION
157 Church Street
P.O. Box 1564
New Haven, Connecticut 06506-0901

FOR THE PARTY, EDWARD HILL BULLARD:

EDWARD HILL BULLARD (PRO SE)
42 Shuba Lane
Chaplin, Connecticut 06235

FOR THE PARTY, THE OFFICE OF CONSUMER COUNSEL:

VICTORIA HACKETT
STAFF ATTORNEY III

ELIN SWANSON KATZ
CONSUMER COUNSEL
Office of Consumer Counsel
Ten Franklin Square
New Britain, Connecticut 06051

FOR THE PARTY, RICHARD CHENEY and the
HIGHLAND RIDGE GOLF RANGE, LLC:

BRANSE, WILLIS & KNAPP, LLC
148 Eastern Boulevard, Suite 301
Glastonbury, Connecticut 06033
BY: ERIC KNAPP, ESQUIRE

FOR THE PARTY, MOUNT HOPE MONTESSORI SCHOOL:

EVANS, FELDMAN & AINSWORTH, LLC
261 Bradley Street
P.O. Box 1694
New Haven, Connecticut 06507-1694
BY: KEITH R. AINSWORTH, ESQUIRE

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1 . . .Verbatim proceedings of a hearing
2 before the State of Connecticut Siting Council in the
3 matter of an application by The Connecticut Light and
4 Power Company, Re: Connecticut Portion of the Interstate
5 Reliability Project, held at the Central Connecticut
6 State University, Institute of Technology and Business
7 Development, 185 Main Street, New Britain, Connecticut on
8 June 26, 2012 at 11:14 a.m., at which time the parties
9 were represented as hereinbefore set forth . . .

10
11
12 CHAIRMAN ROBIN STEIN: Good morning
13 everybody. I call this meeting -- hearing to order at
14 approximately 11:15, June 26, 2012 --

15 (pause)

16 CHAIRMAN STEIN: Can you hear me now?
17 This is a continuation of a hearing on Docket 424. For
18 those and who didn't hear, I'm Robin Stein, Chairman.
19 The meeting is today, June 26, 2012.

20 And we're going to proceed in accordance
21 with the -- with the agenda. And before we continue with
22 cross-examination of CL&P, we have three pending motions.
23 The first one is CL&P request that the Council take
24 administrative notice of the study of "Electric and

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1 Magnetic Field Exposure Assessment of Power Line and Non-
2 Power Line Sources for Public School Environments," dated
3 June 18, 2012. Do I have a motion that we
4 administratively notice --

5 MR. COLIN C. TAIT: So noticed.

6 MR. PHILIP T. ASHTON: Second.

7 CHAIRMAN STEIN: The motion is seconded.

8 All those in favor, signify by saying aye.

9 VOICES: Aye.

10 CHAIRMAN STEIN: Opposed? Abstention?

11 The motion carries.

12 The second motion is a motion from CL&P
13 for Protective Order with respect to Mount Hope
14 Underground Variation - in Right-of-Way Cost Estimate
15 Details in response to a request from Mr. Victor Civie,
16 dated 19, 2012. Do I have a motion?

17 MR. JAMES J. MURPHY, JR.: So moved, Mr.
18 Chairman.

19 CHAIRMAN STEIN: A motion. And second --

20 MR. ASHTON: Mr. Chairman.

21 CHAIRMAN STEIN: I'll let Attorney Bachman
22 comment and then I'll let Mr. Ashton -- okay?

23 MS. MELANIE BACHMAN: At the last
24 evidentiary hearing, Mr. Civie had asked for some

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1 detailed cost breakdown estimates of the underground
2 line. The Applicant had indicated that that information
3 would it -- were it to become public, would destroy any
4 competition among any bidders. No one -- no other party
5 or intervenor has objected to the Motion for Protective
6 Order and I would recommend that we grant that motion.

7 CHAIRMAN STEIN: Mr. Ashton.

8 MR. ASHTON: Mr. Chairman, I'm a little
9 bit troubled by this because many of the components of
10 cost estimating where this is not out of line would go on
11 for other civil works and I -- I have trouble believing
12 that this is so unique and puts the company at such a
13 disadvantage that it warrants that kind of protective
14 order. The -- the -- an individual or an entity can put
15 out an RFP for costs of various materials. The
16 Engineering News Record and other magazines and journals
17 provide cost estimates for labor, trenching, and so
18 forth. And I don't quite understand it, any more than I
19 can understand a protective order on the cost of an
20 overhead line, which is far more common and goes on in
21 every darn docket.

22 So, I'm not predisposed to support this
23 motion on the basis that it's not inconsistent with --
24 that it is inconsistent, pardon me, with what has gone on

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1 in the past, and that it is not unique sufficient to
2 warrant such a protective order. Thank you.

3 CHAIRMAN STEIN: Okay.

4 MR. BRIAN GOLEMBIEWSKI: Second.

5 CHAIRMAN STEIN: We do have a motion and
6 we do have a second. I'd just like to reiterate that
7 none of the parties or intervenors objected. So with
8 that, unless there's any more discussion, we'll have a
9 vote. All those in favor of the Motion for Protective
10 Order, signify by saying aye.

11 VOICES: Aye.

12 CHAIRMAN STEIN: Opposed?

13 MR. ASHTON: Nay.

14 MR. TAIT: No.

15 MR. LEVESQUE: No.

16 DR. BARBARA C. BELL: Nay.

17 CHAIRMAN STEIN: I guess we're going to
18 have to have a -- we'll have to have a vote. We'll start
19 with Mr. Levesque. Just how are you voting?

20 MR. LEVESQUE: No.

21 MR. MURPHY: Yes.

22 MR. GOLEMBIEWSKI: Yes.

23 MR. TAIT: No.

24 MR. ASHTON: No.

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1 DR. BELL: No.

2 CHAIRMAN STEIN: I'm going to vote yes.

3 What does that make --

4 MS. BACHMAN: Jerry and Brian --

5 CHAIRMAN STEIN: What do we have -- so the
6 no's carry -- okay, the no's carry.

7 Okay, the third -- the third motion is --
8 we'll defer that depending on where we are, that is
9 relative to CL&P Preliminary Request to Postpone the
10 hearing scheduled for this Thursday, June 28th. We'll
11 see where we are at lunchtime and determine whether or
12 not we'll postpone the hearing for Thursday.

13 With -- with that, I'd like to go to
14 administrative notice by the Council of the items shown
15 on the hearing program marked as Roman Numeral I-E, Item
16 3, and I-F, Item 6, the Department of Energy and
17 Environmental Protection, as well as the Town of Thompson
18 has provided comments since the last hearing session.
19 Does the Applicant or any party or intervenor have any
20 objection to these items that the Council has
21 administratively noticed? Hearing and seeing none, then
22 they are therefore administratively noticed.

23 The appearance by the Applicant CL&P. I
24 believe that all of your witnesses have been sworn in.

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1 Is that correct?

2 MR. ANTHONY M. FITZGERALD: Yes, Mr.
3 Chairman.

4 CHAIRMAN STEIN: But you do have some
5 exhibits. And could you go through the verification
6 process.

7 MR. FITZGERALD: Yes. Thank you. I think
8 we will start skipping some of these items which have not
9 been admitted yet because they require sponsorship by the
10 need witnesses.

11 I think the first item we come to is
12 Exhibit 22 for identification on page 13, which are the
13 responses -- no, actually we're skipping that. The
14 previous -- previously we have -- this panel has verified
15 the response to Question 1 of this item. And we skipped
16 2, 3, and 4 to postpone for the need panel. So -- and
17 that's actually already been done, so Question 1 is in.
18 That -- that brings us to Item 23. And the items in the
19 transmittal letter start with the executive summary of
20 the California EMF Study, which the Council has just
21 taken administrative notice a few minutes ago. It's
22 listed on page 7 of this hearing program.

23 And Mr. Carberry, can you verify that the
24 document included in the transmittal letter, Item 23,

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1 identified as a copy of the Executive Summary of that
2 California Study is a true copy of the Executive
3 Summary?

4 MR. ROBERT CARBERRY: Yes, it is.

5 MR. FITZGERALD: The next item is Focus
6 Area Zoning Table. And I suggest that it actually
7 doesn't need to be verified because it's more like a
8 brief. It's a compilation of information that's already
9 in the Council's records. It cross-references zoning
10 designations that are in the maps in the application with
11 the bulk -- with the lot size provisions that are in the
12 municipals regulations that are already in the record as
13 part of the bulk filing. And this just puts those two
14 pieces of information together. But that -- that was
15 done by Marianne Dubuque, who's here. If you'd like, she
16 can verify that it was done directly, but I -- I would
17 suggest that that doesn't need a sponsor. And if you'll
18 agree, I'll move on.

19 CHAIRMAN STEIN: Yeah, keep -- keep going,
20 that's okay.

21 MR. FITZGERALD: Okay. The next item is
22 corrected page 52 of the Carberry/Case/Mele Direct
23 Testimony. Mr. Carberry, can you verify that the
24 corrected page 52 that was submitted correctly revises an

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1 error in the previous page 52?

2 MR. CARBERRY: Yes, it does.

3 MR. FITZGERALD: And do you -- and can you
4 tell us what that -- what that -- I mean you've already
5 testified to the error in the previous session, didn't
6 you?

7 MR. CARBERRY: I did. The error was in a
8 cost figure in the --

9 MR. FITZGERALD: Okay --

10 MR. CARBERRY: -- in the table at the
11 bottom of that page.

12 MR. FITZGERALD: And the next item is
13 corrected pages 53 and 56 from the Mango direct
14 testimony. These provide corrections to Tables LMF-3 and
15 LMF-4 and reflect corrections previously made in Miss
16 Mango's oral testimony on June 4th.

17 Miss Mango, do these corrected tables
18 include the corrections to the tabular data used to
19 compare the Mansfield Hollow options to which you
20 testified on June 4th?

21 MS. LOUISE MANGO: Yes.

22 MR. FITZGERALD: The next item is Revised
23 Map Sheet 90 of 134 and Revised Map Sheet 25 of 40, which
24 show FAA designations. Mr. Case, do these corrected maps

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1 revise the FAA designations consistently with your oral
2 testimony on June 4, 2012?

3 MR. JOHN CASE: Yes, they do.

4 MR. FITZGERALD: And as corrected, they
5 are true and correct to the best of your knowledge?

6 MR. CASE: Yes.

7 MR. FITZGERALD: The next item is the
8 corrected Mount Hope Underground Variation Map Sheets 1
9 and 2 of 2. Mr. Case, do these revised map sheets
10 reflect the correct labeling of the existing and proposed
11 lines to which you testified on June 5th?

12 MR. CASE: Yes, they do.

13 MR. FITZGERALD: And as revised are these
14 map sheets true and correct to the best of your
15 knowledge?

16 MR. CASE: Yes, they are.

17 MR. FITZGERALD: The next item -- oh -- or
18 the last item in Exhibit 23 is the United States Army
19 Corps of Engineers Application Appendix F, the Wetland
20 Invasive Species Control Plan.

21 Miss Mango, is the document so designated
22 here that was included in the transmittal letter a true
23 copy of the Wetland Invasive Species Control Plan that
24 the company has submitted as Appendix F to its

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1 application from the U.S. Army Corps of Engineers?

2 MS. MANGO: Yes, it is.

3 MR. FITZGERALD: And is that document true
4 and correct to the best of your knowledge and belief?

5 MS. MANGO: Yes, it is.

6 MR. FITZGERALD: May it please the
7 Council, I would move that Exhibit 23 and its subparts
8 that have just been sponsored here be accepted as a full
9 exhibit.

10 CHAIRMAN STEIN: (Indiscernible) --

11 COURT REPORTER: A microphone please.

12 CHAIRMAN STEIN: Do any of the parties
13 have any objection to these exhibits being admitted?
14 Hearing and seeing none, the exhibits are admitted.

15 (Whereupon, Applicant Exhibit No. 23 was
16 received into evidence.)

17 MR. FITZGERALD: Which brings us to Item
18 24, the Applicant's Agreement with the Highland Ridge --
19 well a cover letter describing an agreement with the
20 Highland Ridge Golf Course owner and a drawing dated June
21 19, 2012, which shows the agreed upon configuration.

22 Mr. Case, are the statements in that cover
23 letter and the illustration of the agreed upon
24 configuration true and correct to the best of your

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1 knowledge and belief?

2 MR. CASE: Yes, they are.

3 MR. FITZGERALD: I'd like to offer Exhibit
4 26 for identification -- I'm sorry -- Exhibit 27 for
5 identification as a full exhibit.

6 CHAIRMAN STEIN: Are there any objections
7 to these exhibits being admitted? Hearing and seeing
8 none, they're admitted.

9 (Whereupon, Applicant Exhibit No. 24 and
10 No. 27 were received into evidence.)

11 MR. FITZGERALD: I just realized that I
12 skipped Item 26 --

13 CHAIRMAN STEIN: I noticed that --

14 MR. FITZGERALD: -- the Responses to Set 3
15 of the Civie Interrogatories. There's two
16 interrogatories in that set. The second one is a need
17 question, which I'm going to skip for now.

18 Mr. Carberry, is the response to Question
19 1 of Set 3 of the Civie interrogatories true and correct
20 to the best of your knowledge and belief?

21 MR. CARBERRY: Yes, it is.

22 MR. FITZGERALD: I move -- I move that the
23 response to Question 1 of the Civie interrogatories, Set
24 3, be admitted as a full exhibit.

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1 CHAIRMAN STEIN: Is there any objection?
2 Hearing and seeing none, it's admitted.

3 (Whereupon, Applicant Exhibit No. 26 was
4 received into evidence as a full exhibit.)

5 MR. FITZGERALD: And I think that takes
6 care of the open items.

7 CHAIRMAN STEIN: Okay, thank you. We'll
8 now go to cross-examination first by staff.

9 MS. CHRISTINA WALSH: Thank you, Mr.
10 Chairman.

11 Just as a clarification, during the June
12 5th hearing there was a discussion between CL&P and the
13 Mount Hope Montessori School about the creation of a
14 green screen between the school property and the
15 transmission line right-of-way. Is this something that
16 CL&P is willing to do in the future if required by the
17 council or in agreement with the school?

18 MR. CARBERRY: I recall that we testified
19 we would consider doing that with them if they were
20 interested in it.

21 MS. WALSH: And that would be part of the
22 D&M plan?

23 MR. CARBERRY: Yes, it would.

24 MS. WALSH: Regarding the changes that

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1 were just admitted as part of Highland Ridge Golf Course
2 negotiation, this -- just to clarify again, this was not
3 any of the options that were provided in the prefiled
4 testimony?

5 MR. CARBERRY: No. This was something
6 that was discussed between us and the Cheneys on site as
7 we were looking at what their concerns were and what we
8 could -- what we could do to our design.

9 MS. WALSH: Okay. And is it true that the
10 structure location is in basically the same spot as
11 originally proposed, that it's just a different
12 configuration --

13 MR. CARBERRY: Except --

14 MS. WALSH: -- and height?

15 MR. CARBERRY: That's correct. Structure
16 39 originally proposed as a delta in this area, a 2-pole
17 delta configured structure will now be a single pole
18 vertical reconfigured structure. So it -- it takes one
19 of the poles out of the range area and raises all the
20 conductors -- the top two conductors higher.

21 MS. WALSH: Okay. And would that require
22 the surrounding structures to be any taller than
23 originally proposed?

24 MR. CARBERRY: It did not have an impact

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1 on the adjacent structures.

2 MS. WALSH: Okay. And approximately how
3 much cost would this add to the project?

4 MR. CARBERRY: It would add no additional
5 cost to the project because we are taking it -- at this
6 angle structure it was a 2-pole. We're actually roughly
7 about the same price to go to a single pole vertically
8 configured structure in this one area.

9 MS. WALSH: Okay, thank you. As part of
10 our Council administrative notice we took in an
11 additional comment from the Thompson Inland/Wetlands
12 Commission. Do you -- have you reviewed that and do you
13 have any comment to offer?

14 MS. MANGO: You're referring to the June
15 19th letter from the Town of Thompson?

16 MS. WALSH: Yes.

17 MS. MANGO: Yes, we have reviewed this and
18 we do have some responses. So, I guess the best way to
19 go through this is simply to first say that between our
20 June 4th and 5th hearings and today, we completed a
21 constructability review along this portion of the right-
22 of-way. This was a review that has been ongoing, but it
23 was being conducted starting this spring from west to
24 east and we simply had not gotten to Thompson yet.

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1 And we did get to the portions of Thompson
2 right-of-way in the last couple of weeks in June. And as
3 a result of that review, what we did find is that in fact
4 there is an existing access road that was probably put in
5 when the first line -- the first 345-kV line was
6 installed through this right-of-way in the early 70's.
7 That road exists. It is gravel. And along the portions
8 of the right-of-way that have now been flooded by the
9 beaver dam, it is submerged, but it's visible.

10 I think Miss Butts in her June 19th letter
11 asks that we conduct some auger samples to see about the,
12 you know, content of the road and if it existed. And our
13 -- the people out there doing the constructability review
14 did in fact do that. And what they found is that the
15 road depth was at least 12 to 18 inches deep. This was
16 below the water. It was gravel. They did not reach the
17 end of the road with the auger, so this road could be
18 potentially three feet deep, which is probably something
19 that was a fairly standard thing that was done at that
20 time to construct a project such as the 345, and it was
21 simply left in place because at that time there were no
22 regulations requiring that the road be removed and it was
23 probably prudent to leave it.

24 We do actually have some photographs of

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1 the road. We have some aerials and we have some
2 photographs taken at ground level if the Council is
3 interested. And the presence of the road is clearly
4 indicated on the aerials. One can see that there is a
5 road that goes through the upland area evidenced by brown
6 -- you know, no evidence of vegetation, it just shows as
7 dirt. And then when the road enters into the wetland,
8 it's open water for the most part. There is no
9 vegetation growing there because there is a submerged
10 gravel access road there. So if the Council -- oh, go
11 ahead.

12 MR. FITZGERALD: Excuse me, just -- I just
13 wanted to point out that one of the photographs you
14 referenced has been admitted as item -- CL&P Exhibit 27.
15 So if you want to refer -- and we have a blow-up of it --
16 so if you want to refer to it in your answer, you -- you
17 can.

18 MS. MANGO: Yeah. If the Council wants, I
19 can show this to you on the blow-up. I think -- but it's
20 up to you.

21 CHAIRMAN STEIN: Yes, please.

22 (pause)

23 MS. MANGO: This photograph is on the --
24 (indiscernible) --

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1 COURT REPORTER: You need a microphone.

2 (pause)

3 MS. MANGO: This is a blow-up of Exhibit
4 27, which CL&P did submit to the Council. This is an
5 aerial -- a fuller aerial view of the right-of-way
6 relative to 2007. And what we've done here is we've
7 labeled the limits of our right-of-way in black. One can
8 see the outline of the existing conductors and the
9 existing structures on the right-of-way. And then we've
10 labeled our proposed new structures.

11 So when one looks at this, one can see
12 coming from west to east, the Five-Mile River is where
13 I'm standing here, so access is limited in this area,
14 nobody crosses the Five-Mile River. We need access in
15 and out from the east. So Structure 319, one can see the
16 access road through the upland area shown as brown. When
17 it enters the wetland, which is Wetland 20-203, one can
18 see open water. And that open water signifies where the
19 existing gravel road is. To the north of that is a heron
20 rookery. And you can see the trees that were in this
21 area which have now been killed. So at one time this was
22 probably a wetland that was once flooded or perhaps the
23 birds from roosting there over time have killed the
24 trees.

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1 Then one comes out of the wetland and we
2 have this little upland area where our Structure 320 is
3 going to be located. And you can see that that, for
4 whatever reason, is kind of an open area, but we're
5 putting the structure on an upland area, so to get to it
6 where once again we traverse back to another part of the
7 wetland -- here's -- (indiscernible) -- once again, open
8 water is visible that's shows where the active -- the
9 impounded beaver dam.

10 Then the same thing exists as you continue
11 east. You come out in an upland area where Structure 321
12 is. So that structure itself and the work pattern would
13 be in an upland area. Then back into the wetland, the
14 same wetland, Wetland 20-203, more open water that shows
15 where the access road exists beneath the impounded
16 wetland. And then continue on to the east to Structure
17 322 and on to the nearest road crossing, which I think is
18 Quaddick Town Farm Road. And each of these individual
19 photos just shows things in greater detail so that you
20 can actually see the areas of the location of the right-
21 of-way between Structure 320 and 321 and you can see the
22 water, you know, in a closer up view.

23 So in answer to this letter, the road does
24 exist. We actually have photographs which we could

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1 submit that shows the results of the survey where our
2 field people took a view through the water and you can
3 see the gravel underneath. We have some views that show
4 the constructability team standing in the water and
5 they're talking, you know, views of the open water
6 towards the structures.

7 A VOICE: (Indiscernible) --

8 MS. MANGO: I think -- I thought you might
9 possibly think that was enough.

10 A VOICE: (Indiscernible) --

11 MS. MANGO: That's Exhibit 27.

12 CHAIRMAN STEIN: Could you enter the
13 photographs into the record just to be a hundred
14 percent.

15 MR. FITZGERALD: Yes. The other -- the
16 other two besides Exhibit 27 that she just referred to,
17 we -- we can enter into the record. We also have the
18 photographs that show the close-ups of the road. We --
19 we could enter those --

20 CHAIRMAN STEIN: Why don't you just give
21 us a complete set --

22 MS. MANGO: We'll give you the complete
23 set of photographs --

24 CHAIRMAN STEIN: Okay.

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1 MR. FITZGERALD: Why don't -- why don't we
2 put them all together at a break and then we'll -- or we
3 can take a minute and do it now because they're here.

4 CHAIRMAN STEIN: We'll take a minute break
5 while you get them together.

6 (Off the record)

7 MS. MANGO: We -- we're in the process of
8 handing out six individual photographs, which I will go
9 through and describe, that show the results of the on-
10 ground field reconnaissance between Structures 319 and
11 322 in the Town of Thompson. And we will also hand out
12 the three additional photos that show the close-up of
13 each section between Structures 319 and 320, 320 and 321,
14 and then 321 and 322. So they show the closer up view of
15 the right-of-way. So that should be in a packet that
16 everyone has stapled together. That's a companion to
17 Exhibit 27 that's already filed, and Exhibit 27 shows the
18 overview.

19 Now in terms of each of these
20 photographs, what we have here -- and I'm not sure of the
21 best way to do this -- we have one photograph that's
22 clearly evident. It's a photo taken through the water of
23 a view of a gravel road along this segment of right-of-
24 way.

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1 MR. FITZGERALD: Can we -- can we call
2 that --

3 MS. MANGO: That could be --

4 MR. FITZGERALD: -- 27A.

5 MS. MANGO: Then -- the first of the
6 individual photographs is a view to the west towards
7 Structure 9317 or proposed Structure 321.

8 MR. FITZGERALD: That's 27B.

9 MS. MANGO: The next photograph is a view
10 to the east towards existing Structure 9318 and proposed
11 Structure 322. Take this one and label that.

12 MR. FITZGERALD: 27C.

13 (pause)

14 MS. MANGO: The next photograph is a
15 westerly view toward structure -- (indiscernible, walked
16 away from mic) --

17 COURT REPORTER: You need to --

18 MS. MANGO: The next -- the next
19 photograph is a view to the west looking towards existing
20 Structure 9315.

21 MR. FITZGERALD: 27D.

22 MS. MANGO: We then have a photograph
23 looking west towards Structure 9316 -- existing Structure
24 9316, which is proposed Structure 320.

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1 MR. FITZGERALD: 27E.

2 MS. MANGO: The last photograph is a view
3 looking east towards Structure 9317 -- existing Structure
4 9317, which is proposed Structure 321. And that should
5 be it. You're missing one.

6 (pause)

7 MS. MANGO: That should be A. That was
8 the first one I had.

9 MR. FITZGERALD: No, A is --

10 (pause)

11 MS. MANGO: The last one I did or --

12 CHAIRMAN STEIN: I would think we can --
13 you can get us a complete package and we don't have to
14 keep going back and forth at this stage. I think -- I
15 think that should suffice.

16 MR. FITZGERALD: We will -- we will file
17 and serve a package.

18 (pause)

19 MR. FITZGERALD: Do the -- the photographs
20 that have been marked as Exhibits 27A through E for
21 identification are they accurate representations of the
22 conditions they depict on the right-of-way as you have
23 testified to them and are they true and accurate to the
24 best of your knowledge and belief?

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1 MS. MANGO: Yes, they are. They were
2 taken within the last we weeks, so they are accurate as
3 of June 20, '12.

4 MR. FITZGERALD: And -- I offer Exhibit
5 27A through E as full exhibits -- oh, I left out F --
6 (pause)

7 MR. FITZGERALD: So it's A through -- it's
8 A through -- I have the gravel, but I -- (pause) --

9 MS. BACHMAN: F was identified as an
10 easterly view toward existing Structure 9317 and proposed
11 Structure 321?

12 MR. FITZGERALD: Okay. So, I expand my
13 previous question to include Exhibit 27F, are they true
14 and correct to the best of your knowledge and belief?

15 MS. MANGO: Yes.

16 MR. FITZGERALD: Thank you. I move
17 Exhibit 27A through F as full exhibits.

18 CHAIRMAN STEIN: Any objection for having
19 these admitted? Hearing and seeing none, they're
20 admitted. Thank you.

21 (Whereupon, Applicant Exhibit Nos. 27A
22 through 27F were received into evidence.)

23 CHAIRMAN STEIN: I'm not sure, but I think
24 the staff had asked you about the letter and I think

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1 there were other issues, that hopefully don't require the
2 same number of photos?

3 MS. MANGO: Yes. We were -- we did begin
4 talking about the June 19th letter. And the exhibits
5 that we just entered related to Exhibit 27 and the
6 attachments do address most of the comments in Miss
7 Butts' June 19th letter. In her first comment for
8 example she notes that we should conduct borings of the
9 road to determine if the road is there. And by virtue of
10 the exhibits that we just provided, we have determined
11 that there is an existing access road that does -- that
12 is present across Wetland 20-203 within the CL&P right-
13 of-way. That is the access road that we currently
14 propose to use for construction and expand as necessary
15 for that purpose.

16 Miss Butts also attached to her June 19th
17 letter a soils report that she had generated by the U.S.
18 Department of Agriculture Natural Resource Conservation
19 Service. This is available on their website. And as I
20 understand it, what she did is she compiled the soils
21 along the right-of-way in the Town of Thompson. That is
22 something that we also did as part of our application to
23 the Siting Council. And I believe our summary of soils
24 is provided in Table 5-1 of Volume 1 of our application.

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1 We basically agree with the U.S.D.A. N.R.C.S. There
2 might be some variations in terms of what soils are found
3 in a specific location along the right-of-way, but we --
4 we generally agree with her. We agree that these are the
5 soil types. What we found along these access roads
6 however is that probably during construction of the
7 1970's era existing line some of the muck soils were
8 perhaps excavated out and replaced with gravel, which is
9 why we see the open water along our access road that you
10 noted from the photographs.

11 In the third paragraph of Miss Butts'
12 letter she noted that the testimony that I provided in
13 early June had no evidence as to what conditions existed
14 after the construction of the right-of-way -- or the
15 construction of the line through the Town of Thompson in
16 the early 70's. Once again, the field surveys that we've
17 just done, which supplemented our previous field surveys,
18 now confirm the presence of the road and the fact that
19 there was a road left during probably the 1970's era of
20 construction.

21 We also think that over time perhaps ATVs,
22 you know, people that run mud off-road vehicles, or
23 whatever they are called, they're probably also using
24 these roads and, you know, keeping the vegetation off

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1 them as well as the gravel itself.

2 Finally, in her letter Miss Butts
3 reiterates again her concern that our proposed
4 construction methods may create a mud wave. And I
5 believe that by this she probably means that we put mats
6 down, and when the equipment runs on the mats, the
7 wetlands soils squish between the mats, or timber mats,
8 and create -- creating some kind of sedimentation within
9 the wetland. That could happen, but that's why in all of
10 our construction procedures we have a silt fence up
11 along the edges of the rights-of-way through wetlands.
12 And in this particular wetland area we would pick a
13 construction method that provides a stable means of
14 getting to these structure sites, as well as we would
15 adopt appropriate erosion control methods, or I guess I
16 should say sedimentation controls to minimize that type
17 of effect.

18 Finally, Miss Butts says that -- I think
19 she's inferring that I hope that the beavers would move
20 by the time that construction actually occurs through
21 here. I -- I do not think that was the intent of my
22 comment. My comment was simply to say that these are --
23 you know, these are environmental conditions that can
24 vary from season to season based on the amount of

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1 rainfall. We don't know what the beavers will do. In
2 fact, it is not an uncommon construction practice that
3 I've seen applied on pipelines to temporarily relocate
4 beavers, allow the water level in a beaver impoundment to
5 drop for construction purposes, and then allow the
6 beavers to come back. If that is an option, it would
7 have to be worked out with DEP, otherwise, you know, the
8 constructability review indicated that we do feel that we
9 can go through this area using the existing gravel road
10 improvements, which would provide a stable base.

11 So, I -- I think that that fairly well
12 covers the points that Miss Butts raised in her June 19th
13 letter.

14 CHAIRMAN STEIN: Dr. Bell has a follow-
15 up.

16 DR. BELL: Miss Mango, just asking --
17 going back to the mud wave, if the wave is created by the
18 timber mats, which are within the access area, I
19 understand you have a silt fence running along the side
20 of the timber mats, but -- so that the actual wave that's
21 in between the interstices where the mats come together,
22 that wouldn't carry out into the wetlands just as you
23 said because there's a silt fence there. But you -- how
24 do you handle -- when you take the mats out, there is a

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1 wave still left in the access-way. So I'm just asking
2 how do you -- do you dig that out with some kind of a
3 smoother so that the restoration of the road itself
4 doesn't contain these mud waves that you're referring to?
5 Is that how it works. I was -- I didn't really -- I'm
6 not familiar with the term, so I'm just asking for
7 clarification.

8 MS. MANGO: I'm not totally -- I mean the
9 mud wave that I have seen -- and I'm assuming that that's
10 what Miss Butts is referring to -- is caused when --
11 typically when you have several layers of mats or it
12 could just be one layer, but in mucky soil conditions
13 where you have heavy equipment, you know, sometimes
14 running faster than it should run over those mats. So
15 you can alleviate the potential for a mud wave in some
16 cases by having equipment traverse these areas slowly,
17 which in most cases the construction operators want to do
18 just for safety purposes.

19 The other thing is that, you know, using
20 the existing gravel access road, which our people feel
21 has a fairly stable base, we should not be on wetland
22 soils that would cause a mud wave.

23 And -- and then the final thing is we
24 would keep our silt fence in place until our temporary

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1 mats or whatever is used in this area were removed. And
2 given the fact that the construction personnel, the team
3 that did the constructability review were able to walk
4 through this area just a couple of weeks ago, indicates
5 to me that we could probably just put people out there to
6 deploy the silt fence in the first place and then remove
7 it afterwards.

8 The final thing -- the final point I want
9 to make is that where we are asking for a width of an
10 access road, and I believe in our testimony earlier this
11 month we indicated we'd increase the width, we're doing
12 that because that's the impact area that we're
13 calculating on, and in this case it's a temporary impact,
14 for the purpose of our Corps of Engineers permit and our
15 401 quality certification from the DEP.

16 So we're assuming that we will have some
17 impacts within that area and we've asked for more room
18 because -- to account for situations such as this, you
19 know, because yes you could get some sedimentation for
20 sure when your equipment is running on any type of timber
21 mat, and that's why you want to -- you want to make it
22 clear to everybody involved that yes there's going to be
23 an impact, but it's going to be contained hopefully
24 within this -- whatever it is -- a 20-foot area, a 30-

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1 foot area, or whatever is designated on the plans for
2 that particular site.

3 COURT REPORTER: One moment please.

4 (pause - tape change)

5 DR. BELL: Thank you. Thank you, Mr.
6 Chair.

7 CHAIRMAN STEIN: Professor Tait had a
8 follow-up.

9 MR. TAIT: What's the depth of water we're
10 talking about?

11 MS. MANGO: As of the last couple of
12 weeks, it was between -- the maximum depth they felt was
13 -- well they said was about 30 inches toward the more
14 western end near the Five Mile River, and then up to
15 about 20 to 24 inches. They were able to walk through
16 with waders the entire way.

17 MR. TAIT: And the equipment can go
18 through that with timber mats?

19 MS. MANGO: This would be a construction -
20 - the contractor would have to propose a specific method
21 or the construction engineers, you know, during the D&M
22 phase --

23 MR. TAIT: Big --

24 MS. MANGO: -- but yes, they could go

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1 through that with timber mats. And that's something they
2 would --

3 MR. TAIT: Big equipment?

4 MS. MANGO: Yes. I've seen -- I've seen -
5 -

6 MR. TAIT: Big tires?

7 MS. MANGO: Yes. I've seen -- I've seen
8 like large equipment for a pipeline and things of that
9 sort go through a much longer wetland with putting in
10 nine or ten layers of mats.

11 MR. TAIT: Layers of mats?

12 MS. MANGO: One on top of the other.

13 MR. TAIT: So you'd bring it out of the
14 water?

15 MS. MANGO: Yes -- yep. The goal would be
16 to put the -- to keep the construction equipment out of
17 the water.

18 MR. TAIT: If they breach the beaver dam,
19 would that bring the water down sufficiently?

20 MS. MANGO: Probably.

21 MR. TAIT: Beavers are not an endangered
22 species as far as I know, at least not in the Town of
23 Norfolk -- (laughter) --

24 MS. MANGO: No.

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1 MR. TAIT: -- they outnumber the rest of
2 us. Thank you.

3 CHAIRMAN STEIN: Okay. Staff.

4 MS. WALSH: Thank you, Mr. Chair. Moving
5 on to the comments received from the Department of Energy
6 and Environmental Protection, page 9 of the comments
7 discusses homes that are at 133 and 135 Old Willimantic
8 Road in Columbia. These homes have a driveway that runs
9 along the right-of-way. And the comments state that
10 there a proposed pole location in the center of the
11 driveway. Is there some ability to shift the structure
12 location or to move the driveway, or is there any
13 consideration so far about that?

14 MR. CARBERRY: This is the location, Miss
15 Walsh, where I believe the driveway has to be relocated.
16 The structure needs to stay in its alignment at that
17 location. The driveway has been put in a vacant space
18 today and it will have to be relocated.

19 MS. WALSH: Okay, thank you. The bottom
20 of page 11 discusses the crossing of the Natchaug River
21 and the recommendation to leave trees in that area to
22 allow the shading of the river in that section. Is that
23 something that could be done?

24 MR. CASE: Yeah, that -- that is something

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1 that we could consider. We would have to take a closer
2 detailed look, but that might be something that we may be
3 able to accommodate.

4 MS. WALSH: Thank you. Throughout the
5 document there are a number of recommendations to shift
6 structures due to either stonewalls or visibility to
7 residences. Is -- have you looked through these and
8 considered these shifts are feasible or particularly
9 unfeasible?

10 MR. CASE: We have taken a preliminary
11 look through the letter and the structures that are
12 referenced in there. There's -- there's about a dozen
13 structures with proposed or requested shifts either in
14 alignment or longitudinally. There are -- there's
15 probably a mix in there, and some that we can
16 accommodate. There are some such as at angles or some
17 that we've already shifted significantly that will be
18 more difficult to accommodate, but we -- we are going to
19 take a closer look through the detailed engineering of
20 these 12 structures and see if we can accommodate these
21 additional moves.

22 MS. WALSH: Is -- is that something that
23 is done during the planning phase or do you do it --
24 would you do that in the D&M plan phase of the project?

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1 MR. CASE: We'd anticipate doing that
2 through the D&M. Some of these -- like I said, we've
3 done quite a bit of work to relocate out of wetlands
4 already. So these would be going above and beyond to
5 where we've already felt comfortable. So it have to be
6 refined and designed, so it's going to take us some time
7 to get through those.

8 MS. WALSH: Okay, thank you. On the last
9 page of the comments there are a number of questions.
10 One of the questions that was brought up, kind of a
11 curiosity question was the proposed structures are about
12 five feet taller on average than the existing structures.
13 Is that something that was a change in the technology or
14 requirements on your end --

15 MR. CASE: Yeah --

16 MS. WALSH: -- or what was the reason for
17 that?

18 MR. CASE: Well it's -- it's a little bit
19 of both. We are using a larger conductor on this and we
20 are -- we have -- in some instances do have more
21 stringent clearance requirements than when the original
22 line was built. But -- but for the most part what we are
23 trying to capture here was a conservative estimate for a
24 structure height increase. When we're showing cross-

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1 sections to residents at open houses, we're showing
2 typical values and we want to be able to accurately
3 reflect any increase in impacts to them. The average
4 structure is roughly five foot taller through or
5 preliminary design. But through a refined design once we
6 get our constructability reviews done and move on to that
7 next D&M level design, we do anticipate that that five
8 feet will shrink down to less than that.

9 MS. WALSH: And there was also a paragraph
10 about the cancellation effects of EMFs. It's the third
11 paragraph from the end. Could you take a stab at
12 answering that question?

13 MR. CARBERRY: So you're speaking about
14 the paragraph that begins the three charts on page 7B-
15 18?

16 MS. WALSH: Right. Thank you.

17 MR. CARBERRY: And those charts are the
18 focus area A, B, and C Magnetic Field Management Results,
19 looking at the various different configurations that we
20 considered in the Field Management Design Plan. There's
21 a figure on the previous page as well, Figure 6, which
22 graphs the complete results across the right-of-way and a
23 short distance beyond each edge. So the tables
24 themselves are only showing specific values, but the

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1 curves you can see as you approach the north right-of-
2 ways in particular are all coming very close together.
3 The proposed new line has more than the normal distance
4 to the edge of the north -- the north edge of the right-
5 of-way than we would normally have. We're building a --
6 we're building a south line for example where that's
7 centered 85 feet from the south edge. If we build an H-
8 frame line where we've proposed it, we'd have
9 approximately 130 feet from the center of that line to
10 the north right-of-way edge. So we have more distance
11 for the height effect to disappear. And I think I
12 testified in one of the previous days that small
13 differences in height do matter to the magnetic fields
14 over some distance to either side of the line, but that
15 the further you go to one side away from a line, the more
16 that effect diminishes. And so we're -- we're at a
17 distance here where the height effect is wearing itself
18 out.

19 In addition, you have two lines here
20 working with each other for a cancelling influence.
21 These -- these two lines have approximately equal
22 currents in them and so the cancelling effect is very
23 good. When you move one set of conductors in a delta
24 configuration or a vertical configuration up and down

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1 relative to the H-frame line, you -- you alter that
2 cancelling influence. And it's a bit like pushing on a
3 balloon; it may go down on the right-of-way and up at the
4 edge of the right-of-way or vice versa. And so what
5 you're seeing here sometimes is that if a vertical is
6 normally lower than a delta and then you change the 20-
7 foot difference, you might switch that around at the edge
8 of the right-of-way and the other one is a little bit
9 higher than the other one. These are relatively small
10 differences at that point, but fundamentally you do
11 affect the cancellation to some degree, including at the
12 edge of the right-of-way when you move the delta or
13 vertical line up and down.

14 MS. WALSH: Thank you. I have nothing
15 further at this time. Thank you.

16 CHAIRMAN STEIN: Thank you. We'll now go
17 to cross-examination by the Council members. Professor
18 Tait.

19 MR. TAIT: On that page 19 of the report
20 that says not has been left out, do you agree with that?
21 On page 6-26.

22 MR. CARBERRY: Yes, we do. I thought
23 yesterday we submitted a corrected page.

24 MR. FITZGERALD: Yes.

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1 MR. TAIT: Thank you.

2 MR. FITZGERALD: That -- that was received
3 in evidence today.

4 MR. TAIT: At the last session I inquired
5 whether the Montessori School was a 501C-3 institution.
6 Can you verify that -- have you verified that? And the
7 other -- would you please verify that. And I'm also
8 interested in is -- the day care center, the Green
9 Dragon, has a state license as a day care center? I
10 would like a copy of that license to see if there's any
11 conditions on it. Thank you.

12 CHAIRMAN STEIN: And we can probably ask
13 those parties those appropriate questions to.

14 MR. TAIT: If they are a party.

15 CHAIRMAN STEIN: Yes, they are -- I
16 believe they are.

17 MR. TAIT: Okay.

18 MR. FITZGERALD: Montessori is. The Green
19 Dragon is not --

20 CHAIRMAN STEIN: Oh --

21 MR. FITZGERALD: -- is the Green Dragon a
22 party? The Montessori School is a party, but the Green
23 Dragon Day Care is not.

24 CHAIRMAN STEIN: Okay. We'll now go to

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1 Mr. Ashton.

2 MR. ASHTON: Again referring to the
3 document we received from the Department of Energy and
4 Environmental Protection and recognizing full well that
5 you've only had a few days to look at this, is it
6 possible that you could prepare a late file which
7 indicates your acceptance or concurrence with the points
8 that are raised in there? Quite frankly, from my own
9 experience, it would almost be -- if you could do it, it
10 would almost work to mark -- to put a marking alongside
11 the particular paragraphs saying yes, no, perhaps, or
12 whatever, you know, right on the document itself so we
13 don't have to go back and forth. Just a suggestion.

14 I want to go back to the Mansfield Hollow,
15 Mansfield park area. And in particular, I want to open
16 up the field tour booklet that we were given when we took
17 the tour to Section 8, which is Summary of the Proposed
18 Configuration for Federally Owned Land in Mansfield
19 Hollow. Mr. Reese makes reference to it on page 4. And
20 I want to be sure we're all singing the same song, that
21 the earlier discussion did not include any visual aspects
22 of -- any visual considerations, and the Reese document
23 does. So that is it your opinion that the proposed
24 configuration which shows on that Section 8 would be more

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1 desirable than one which would avoid trifling disturbance
2 of any wetlands in the area? And specifically I'm
3 looking at the two delta configurations -- double delta
4 configurations that shows on page 21, Section 8, the
5 Summary of Proposed Configuration Options for Federally
6 Owned Land.

7 MR. CARBERRY: We're trying to locate a
8 copy of that, Mr. Ashton.

9 MR. ASHTON: Would you like for me to give
10 you one?

11 MR. CARBERRY: Maybe -- (laughter).
12 (pause)

13 MR. CARBERRY: You have us looking at page
14 21 of that document?

15 MR. ASHTON: Yeah. And the heading on it
16 -- it's No. 8, Summary Proposed Line Configuration
17 Options for Federally Owned Land in Mansfield Hollow.

18 MR. CARBERRY: And the question again was?
19 Sorry.

20 MR. ASHTON: Is it the Applicant's
21 preferred configuration the double delta arrangement with
22 an expansion of the right-of-way of 55 or 85 feet?

23 MR. CARBERRY: That was our initial
24 preference in our initial proposed configuration until we

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1 sensed that the Army Corps of Engineers preferred the
2 minimal right-of-way expansion option.

3 MR. ASHTON: Okay. Could you say that
4 again a little bit louder?

5 MR. CARBERRY: That was our, as it's
6 labeled here, the proposed configuration --

7 MR. ASHTON: Yeah --

8 MR. CARBERRY: -- of these three it was
9 CL&P's preferred configuration, it was slightly the
10 lowest cost --

11 MR. ASHTON: Okay --

12 MR. CARBERRY: -- however -- and I think
13 we said this in response to some data request, it has
14 become clear through the process with the Army Corps of
15 Engineers that they were leaning towards the minimal
16 right-of-way expansion option.

17 MR. ASHTON: That -- but that was before
18 we had this communication from Mr. Reese. Is that not
19 correct?

20 MR. CARBERRY: Yes. We had a
21 correspondence about this from the DEEP back in February
22 as I recall --

23 MR. ASHTON: Right --

24 MR. CARBERRY: -- it wasn't from Mr.

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1 Reese.

2 MR. ASHTON: And that earlier DEEP letter
3 made no mention whatsoever of visual effect, did it?

4 MR. CARBERRY: It was from the Wetlands
5 Division --

6 MR. ASHTON: It mentioned only disturbance
7 -- minor disturbance to wetlands. It didn't mention
8 anything about beneficial effects of clearing to
9 wildlife. It mentioned nothing about visual effects of a
10 lower structure -- the visual benefits of a lower
11 structure, is that correct?

12 MR. CARBERRY: Do you recall --

13 MR. ASHTON: I'm not sure I heard an
14 answer.

15 MS. MANGO: Mr. Carberry asked me to
16 answer part of your question. The letter in February was
17 from the DEEP Inland Water Resources Division --

18 MR. ASHTON: Okay --

19 MS. MANGO: -- and that letter was
20 provided in response to a general outreach that we had
21 conducted at the request of the Corps of Engineers to
22 solicit input from the various agencies that would be
23 involved in the project. So in addition to the Inland
24 Water Resources Division of DEEP, we had also requested

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1 similar information from the parks department and I think
2 wildlife, but we did not receive letters from them at
3 that time.

4 So you are correct, the Inland Water
5 Resources Division focused on water resource minimization
6 of water resource impacts and the selection of the least
7 environmentally damaging practicable alternative from a
8 water resources perspective. But he didn't -- you know,
9 in that particular letter the DEEP Inland Water Resources
10 Division did not comment on the park per se because the
11 park -- the alignment of the right-of-way through the
12 park spans Mansfield Hollow Lake, but does not affect
13 other water resources.

14 MR. ASHTON: Now let me refer to Mr.
15 Reese's letter, page 4, the top full paragraph beginning
16 with the acronym DEEP. DEEP did provide a letter and
17 I'll give you a second to read it --

18 MS. MANGO: Yes, that's the letter from
19 the Inland Water Resources Division --

20 MR. ASHTON: Right. Then I -- I want to
21 go down a little bit beyond that and I note the word at
22 the end of the third line beginning with the word this;
23 this preference was based solely on an analysis of
24 wetland impacts and did not reflect any coordination with

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1 state parks or wildlife division. While our State Parks
2 and Wildlife Division have voiced a slight preference for
3 the original proposed alternative for reasons revolving
4 around aesthetics and habitat types respectively, DEEP
5 finds that the original proposed configuration or the
6 minimal right-of-way expansion to be acceptable.

7 The visual effects would push for a right-
8 of-way expansion, would they not?

9 MS. MANGO: Well I think as I -- as I
10 mentioned in our testimony in early June, we were very
11 cognizant of the potential visual effects and how the
12 public may view the different structure types and
13 heights. As a result, in our application to the Siting
14 Council in Section 10, Volume 1, we include a visual
15 simulation of each one of the different right-of-way
16 configuration options in Mansfield Hollow.

17 We also discussed this extensively with
18 the U.S. Army Corps and provided them with the visual
19 simulations and also the depiction of the different
20 structure heights that you mentioned was in your right-
21 of-way tour brochure. And the Corps of Engineers as the
22 lead agency and the owner of the property has not
23 expressed a concern about the visual effects of the
24 taller height of the structures. They are principally

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1 concerned about minimization of impacts to forest
2 clearing and to wetlands --

3 MR. ASHTON: Okay, regarding the clearing,
4 doesn't the DEEP prefer some clearing for the benefit of
5 wildlife?

6 MS. MANGO: There's certainly evidence
7 that scrubland habitat is very important and DEP -- DEEP
8 does I believe recognize that --

9 MR. ASHTON: Okay --

10 MS. MANGO: -- but in none of the letters
11 have they indicated that thus far.

12 MR. ASHTON: Looking at page 21 of that
13 handout that went on the tour of CL&P's proposed
14 configuration, the two delta structures have -- shown on
15 this drawing the two conductors on the right-hand side.
16 Suppose the new line was built with the -- just flipped
17 over, so the two conductors were on the outside, would
18 that have any benefit on the EMF propagation or any
19 effect on the EMF propagation?

20 MR. CARBERRY: Well I'm sure it would
21 change the profile somewhat. This is in an area where
22 there are not adjacent land uses --

23 MR. ASHTON: Right, you've got a water
24 body --

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1 MR. CARBERRY: -- and things like that. I
2 think it was primarily done this way to -- such that the
3 conductor nearest to the edge of the right-of-way was not
4 the lowest one, which would allow a little bit more
5 safety against falling trees from an edge of a right-of-
6 way hitting the lowest conductor --

7 MR. ASHTON: So does that say that if you
8 had to do it all over again, the first circuit would be
9 flipped around?

10 MR. CARBERRY: For that reason you can
11 think of flipping it around, yes.

12 MR. ASHTON: Okay.

13 MR. CARBERRY: We're not proposing to do
14 that now. It's -- that's --

15 MR. ASHTON: I'm sorry?

16 MR. CARBERRY: We're not proposing to
17 reverse that decision now.

18 MR. ASHTON: Well I thought you might have
19 second thoughts. I have nothing further. Thank you, Mr.
20 Chairman.

21 CHAIRMAN STEIN: Thank you. Dr. Bell.

22 DR. BELL: Thank you, Mr. Chair. I just
23 have one question about the material that was submitted
24 that I think I requested of Dr. Bailey, which was a study

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1 of EMFs in California schools, and that was -- and the
2 name of the author was Zaffenella -- and that was
3 supplied to us and I thank you for that. I -- but I have
4 a very simple question about a definition. A -- frequent
5 mention is made in the study of net -- net current -- two
6 words -- which they determined to be in many cases the
7 major -- the major force affecting -- a major driver of
8 EMF. So I think I know what that means, but I just want
9 a quick definition. It's not defined in the paper
10 itself.

11 MR. CARBERRY: Sure -- I will try. Roger
12 Zaffenella, by the way, is one of my mentors in the whole
13 EMF field and was for many years the head of Project UHV
14 up in Lenox, Massachusetts when it was owned by General
15 Electric Company, but also later when it became owned by
16 the Electric Power Research Institute as the high voltage
17 transmission research center, and EMF research was one of
18 his engineering type research, his specialty. And he had
19 subsequently gone on to work for InterTech Consultants.
20 You had Mr. Silva before you in the past from InterTech
21 Consultants and Dr. Zaffenella worked with Mike Silva and
22 was the author of this report.

23 Net currents is a term that basically --
24 I'm going to have to have you visualize some things and

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1 I'll start with a lamp cord. A lamp cord has two wires.
2 One is the so-called hot wire, it has 120 volts on it,
3 and when the lamp is on, current is going down that wire
4 to the lamp and it is returning in the other wire. All -
5 - all current that goes to a load must return. That's
6 what a circuit is. So if you were to wrap your fingers
7 around the lamp cord, you would say I'm holding on to
8 zero current -- zero net current because what came --
9 what went down came back all in the same place, there's
10 no net current. What if the current that went down one
11 wire did not all come back in the other wire, there would
12 be a difference, and we would now say that this lamp cord
13 has a net current. And likewise, the part of the current
14 that didn't come back where it should have and went
15 someplace else, might be flowing by itself, on a water
16 pipe for example. And you would say that the water pipe
17 has a net current because there's no adjacent wire
18 carrying current to cancel it.

19 So -- it happens both in homes and in
20 schools. I happen to have it in the house that I live
21 in. The typical way it happens is if you have a water
22 pipe grounding system in your neighborhood, metallic
23 water piping and copper water piping in your home, a
24 number of homes might be served by the same transformer.

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1 So the current that they're using in their homes, when it
2 reaches the neutral point of their electric panel, that
3 neutral point is connected back to the transformer.
4 However, it's also grounded to the water pipe in the
5 house. And so that return current has a choice, do I
6 follow the neutral wire back to the transformer or do I
7 follow the water pipe system. Well the water pipe system
8 doesn't go back to the transformer, but it does go to
9 your neighbor's house. And so it can follow the water
10 pipe system into your neighbor's house where it connects
11 to their neutral point at their panel and then exits back
12 to the transformer that way. The house I live in is the
13 closest one to the transformer, so I collect the net
14 current from the neighbors' houses and it comes into my
15 house as a connection from the water pipe ground to the
16 service entrance. Now in a lot of houses that's no big
17 deal because those two connections are right close
18 together. The house I'm in has an electric panel on one
19 end of the house in one corner. And completely in the
20 opposite corner is where the water pipe enters. So
21 there's a special ground wire connected from the water
22 pipe throughout the house under a bedroom, over a family
23 room before it gets to the other side. And that -- that
24 regularly carries a net current of a couple of amps and

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1 so you get a magnetic field in the vicinity of that in
2 the bedroom above and in the room down below because of
3 that flow of net current.

4 So that's how it typically happens in a
5 neighborhood. It's also possible to get net current if
6 you have an electrician who has done some things he
7 shouldn't have done in three-way switch wiring for
8 example because he didn't have the right wire and he
9 tried doing something different and it works but it leads
10 to a net current.

11 In schools it's -- and basically in
12 facilities that need subpanels because they're large.
13 You have a main panel and then you have a need from there
14 that goes to a subpanel that serves a different part of
15 the building, an extension that was built later, those
16 kinds of things. The ground -- the connection of the
17 neutral to ground is supposed to be made only once.
18 Those are made at the service entrance. But when you buy
19 a subpanel and you install it, you have to consciously --
20 it's made with a neutral ground connection already made
21 and you have to disconnect it if you're adding a
22 subpanel. And a lot of electricians either don't do it
23 or forget to do it or think they're supposed to actually
24 make it. The more connections to neutral ground the

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1 better some people think. But by doing that you create
2 more opportunities for neutral current to find other ways
3 to get back to the source and so they're not following
4 the wires that brought the current there and you're
5 creating net current.

6 In schools you have more water pipes, you
7 could have, you know, shields of cable TV wires, lots of
8 metallic objects that could make incidental contact with
9 a ground wire or a neutral wire, and there's many
10 different ways that you could have small net currents.
11 They tend to be small currents, you know, a few amps,
12 nothing that's going to burn anything up, but when they
13 flow by themselves, you basically don't have this
14 cancelling benefit of the wire next to it carrying equal
15 and opposite current. It's all by itself. When you have
16 a wire by itself carrying current, the magnetic field
17 around it is circular and it's equal to two times the
18 current divided by the distance in meters. So if you're
19 one meter away and you have two amps, two times two is
20 four, divided by one and you have four milligauss one
21 meter away. So if that's under the floor of a room with
22 your bed above it, you know, that's where you can get
23 above average magnetic fields in a home from a relatively
24 small net current. That's what his study observed quite

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1 a lot of in the California schools.

2 DR. BELL: Thank you for explaining.

3 Thank you, Mr. Chair, that's my question.

4 CHAIRMAN STEIN: I was wondering if that
5 question is going to be on the test -- (laughter). Okay.

6 Let me just ask a question which really is
7 a follow-up and then we'll -- Mansfield Hollow, it's --
8 the land is the Army Corps of Engineers where you want to
9 go through. What is the status of your request to the
10 Army Corps to make a decision? And when will that
11 decision be made? I mean how does that work because I
12 assume they're listening to others as we're listening to
13 others, but they ultimately have to come to a decision as
14 to whether they're going to allow you to have additional
15 land unless you -- you don't have eminent domain over the
16 Army Corps I don't think -- so how -- where are we in
17 that process?

18 MS. MANGO: That's a good question. Yes,
19 the land is owned by the Federal Government under the
20 auspices of the U.S. Army Corps of Engineers, who took
21 control of this property for flood control purposes in
22 the late 40's or 50's and hence built Mansfield Hollow
23 Dam. They lease large portions of the property,
24 something like twenty-three hundred acres to DEEP, who

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1 manages it for the state park and the wildlife management
2 area.

3 CL&P has an easement from the Corps of
4 Engineers, and that's what it, it's an easement, a
5 hundred and fifty feet wide for that approximately 1.5
6 miles across the two separate segments. So to expand the
7 easement, CL&P had to provide a real estate request for
8 an additional grant of easement to the U.S. Army Corps of
9 Engineers, New England Division. And there's a special
10 real estate branch with whom one deals with for this sort
11 of thing. The real estate branch of the U.S. Army Corps
12 of Engineers in turn must complete its own internal
13 review of CL&P's request. And there's different branches
14 involved. There's an operations branch, who handles, you
15 know, the management of the dam itself and the flood
16 control levy that we span over, and there's other
17 divisions that have to weigh in. So the Corps is doing
18 that internally. At the same time the real estate branch
19 contracts with its own internal environmental evaluation
20 branch, which is a separate branch. And the
21 environmental evaluation branch must prepare an
22 environmental assessment that analyzes the potential
23 impacts of CL&P's easement expansion request.

24 So we've met with the Corps over the years

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1 about this. We've provided several -- I wouldn't even
2 call them preliminary environmental assessments, but they
3 were sort of like here's our -- here's our data, what do
4 you think, here's what we're proposing. As part of that
5 dialogue, which started about 2008, we have modified the
6 request. For example, originally CL&P wanted to expand
7 the right-of-way by 150 feet to match the 300-foot wide
8 width of the right-of-way that's common along the rest of
9 the project between Card Street and the Rhode Island
10 border. And at that time, very quickly, DEP weighed in
11 and said, you know, you really don't need an additional
12 150 feet through, you know, the areas that we're using
13 for the park and wildlife management area, why don't you
14 scale back to exactly what you need. And so that's how
15 we came to develop the originally proposed configuration,
16 which was the 11 acres. What that represented was the
17 minimal amount that CL&P had to acquire and vegetatively
18 maintain to support matching structures, which as Bob
19 Carberry will tell you the least cost option. So that's
20 how we came to get our 11 acres.

21 What we did is we met with the Corps real
22 estate branch and the environmental evaluation branch.
23 We have a person assigned in the environmental evaluation
24 branch who's in charge of preparing our environmental

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1 assessment. We provided the basic data for the
2 environmental assessment and we submitted that to her in
3 draft form back in April. That EA reflected what the
4 Corps asked us to do, which was pick the approximately
5 five acre minimal right-of-way expansion, not the 11 acre
6 expansion which they had, you know, earlier this year
7 told us they did not support, so right now the EA is with
8 the environmental evaluation branch. They will provide
9 us comments back, you know, later this summer. Then we
10 work with them to finalize the EA. It goes to public
11 notice, which is notice like any other Corps of Engineers
12 or regulatory requirement. And then after that, once the
13 EA is accepted and assuming there's no comments, it goes
14 back to within the Corps of Engineers itself and has to
15 be approved by the colonel of the district. And then
16 once that all happens, the real estate branch, who has
17 indicated they are in acceptance -- they basically agree
18 with what CL&P is proposing. There's no technical
19 problems with the easement request, alright. There's no
20 problem with the dam safety, no levy issues, nothing that
21 we know of. But the environmental -- the environmental
22 evaluation branch must provide that EA to the real estate
23 branch before the real estate branch can act.

24 So, I hope that answers your question.

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1 And one final thing I should say --

2 MR. FITZGERALD: Well --

3 MS. MANGO: -- is unusually for a project
4 like this, the Corps of Engineers is a landowner whose
5 property we traverse. They also are the key federal
6 agency for the Clean Water Act Section 404 permit for the
7 entire project. And as a project CL&P and National Grid
8 filed for that permit at the end of May. A different
9 branch of the Corps, the regulatory branch is in charge
10 of reviewing the Section 404 permit. So there are two
11 parallel processes, but obviously the Corps won't let us
12 construct through Mansfield Hollow until they likely
13 issue the 404 for the project as a whole.

14 MR. FITZGERALD: I think there's one part
15 of the question that you didn't answer, which was what is
16 the current expectation about the timing of when we're
17 going to hear from the Corps.

18 MS. MANGO: Yeah, I need to get to that,
19 but first I had to explain the different Army Corps
20 branches and how they interact.

21 Our -- what we currently expect -- and I
22 just spoke to the environmental evaluation branch this
23 week was -- is that we hope to have the EA issued around
24 the end of August and go to public notice in September.

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1 There's a 30-day public notice. We hope that the Corps
2 can then complete the EA process and get like a
3 preliminary approval or whatever they call it internally
4 by the end of the year to the real estate branch. So
5 that's -- that's the current time frame that we're --
6 we're looking at, some kind of resolution by the end of
7 this year. And we'll know -- if the EA receives no
8 public comment, no major issues, then it's -- it's really
9 just a formality of winding its way through the Corps'
10 internal organization to get the signatures required.

11 CHAIRMAN STEIN: But we as the Siting
12 Council can't make a decision -- or I guess the question
13 is how can we make a decision until we at least have that
14 preliminary approval? That's not something for the D&M.
15 These are pretty radically different I assume.

16 MS. MANGO: Well we're hoping to have the
17 preliminary approval, you know, like this fall. After
18 the EA is out to public notice, once that's completed,
19 we'll know right away if there's any push-back on
20 anything. So, I think that we can be fairly confident of
21 a proposed configuration.

22 MR. FITZGERALD: And in our application
23 and testimony what -- what we've said is that it would be
24 nice if we get a definitive answer from the Corps real

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1 estate division before you have to decide. But if you
2 don't, our first choice would be that the decision and
3 order approve the route, which is the same in both cases,
4 and leave -- and leave to the D&M the choice between the
5 two options or the three options if you wanted to do
6 that.

7 We -- we felt that the Corps has taken the
8 matching structures option off the table and it's -- it's
9 now a race between the five acre minimal expansion and
10 the no expansion option. So we -- we'd ask that you
11 would approve the project and the route and leave that to
12 the D&M plan.

13 And then as a fall back we've - we've said
14 well if there's -- if there's no signal from the Corps
15 that you are satisfied with before you render your
16 decision and you're not willing to defer the choice to
17 the D&M, then the only thing to do is to pick one of the
18 configurations, you know, presumably the one that it's
19 felt the Corps is most likely to approve since we can
20 only build what they approve, and we have no condemnation
21 rights. And then if that prediction turns out to be
22 wrong, we would have to come back for an amendment or a
23 reopening.

24 CHAIRMAN STEIN: Okay. Thank you. Mr.

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1 Golembiewski.

2 MR. GOLEMBIEWSKI: Thank you, Chairman. I
3 just wanted to ask questions on one matter. Getting back
4 -- not -- not that we haven't talked about it a lot, but
5 that large wetland system between Structures 319 and 322
6 in Thompson, I had just some questions on where in
7 particular are the Great Blue -- the Great Blue Heron
8 rookeries. And I can see sort of the dead wood areas on
9 your aerial photos.

10 COURT REPORTER: One moment please.

11 (pause - tape change)

12 MS. MANGO: Yeah, my understanding is it's
13 -- it's mostly between 321 and 322, structure -- you
14 know, proposed Structures 321 and 322, and to the
15 northwest of the right-of-way --

16 MR. GOLEMBIEWSKI: Okay --

17 MS. MANGO: -- there might be a few birds
18 nesting or using a rookery between -- in the wetland
19 between 320 and 321. I wouldn't rule that out --

20 MR. GOLEMBIEWSKI: Okay --

21 MS. MANGO: -- you know, they are --
22 historically they've been in this area. And I think Mr.
23 Reese in his walk-over noted them on nests in April. And
24 -- and our people who have walked through this area for

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1 wetland surveys in the recent constructability review
2 noted them in this general area as well.

3 MR. GOLEMBIEWSKI: Now -- now my question
4 to you is do you believe that part of the inaccessibility
5 of your right-of-way is part of the factor why they're in
6 that area? Because my -- my experience is that they find
7 areas where there's not a lot of people.

8 MS. MANGO: Well there are not a lot of
9 people in the Town of Thompson in this north end --
10 (laughter) -- in this particular area, and -- I mean I
11 would have to say that ironically of the areas in the
12 Town of Thompson our right-of-way provides the most
13 access.

14 MR. GOLEMBIEWSKI: What's that?

15 MS. MANGO: The right-of-way provides the
16 most access, because I think that -- you know, based on
17 the condition of the access roads where they are being
18 used in the upland area, you can tell they're being used.
19 I don't think that Tony Johnson's right-of-way management
20 people are going in here and causing that kind of use
21 that's visible on an aerial photograph. So I would
22 anticipate that this right-of-way is being used by ATVs
23 and, you know, third-parties. So, I mean --

24 MR. GOLEMBIEWSKI: So -- so you think it's

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1 accessible currently?

2 MS. MANGO: Well, I -- you know, in the
3 sense of -- to the extent that there's entirely, you
4 know, unbroken tracts of woodland that are accessible,
5 this is more accessible than some of those areas. And I
6 think that one would need to take, you know, the nesting
7 habitats of the birds into effect doing construction.
8 And certainly construction disturbance would be different
9 than a couple of guys going along on their ATVs or late
10 season snowmobilers or something like that.

11 MR. GOLEMBIEWSKI: So, I -- you're getting
12 I guess to where my questions hopefully are leading. One
13 is their breeding season -- my understanding -- well do
14 you know what the Great Blue Heron breeding season is?

15 MS. MANGO: I would have to look that up,
16 but I would imagine it's like spring to -- you know, it
17 might be the standard August 1st or it might be a little
18 bit earlier.

19 MR. GOLEMBIEWSKI: Based on that -- I'll
20 just take that as fact -- would you be able to have some
21 type of seasonal restriction of the activities in that
22 area?

23 MS. MANGO: That would be something that,
24 you know, I would want the construction people to weigh

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1 in on, but this is a relatively short segment of right-
2 of-way. It is an area where as I mentioned we have to
3 get in from Quaddick Town Farm Road, we would not cross
4 the Five Mile River. But I would think that this could
5 be planned to meet some kind of seasonal timing
6 restriction that would avoid the critical periods in the
7 Blue Heron lifecycle. And to cross this wetland, it
8 might actually be better to cross it in the winter under
9 frozen conditions, which is a fairly standard
10 construction technique for Minnesota, Wisconsin. You
11 know, work in areas where there are a lot of wetlands,
12 they'll go in there in the winter.

13 MR. GOLEMBIEWSKI: Okay. And then my --
14 my last question is -- I was a little confused -- is the
15 plan to put in gravel roads in these low areas?

16 MS. MANGO: No. Right -- well once again,
17 you know, this kind of detail which we've sort of drifted
18 into as a result of Marla Butts' letters, is something
19 that we would typically leave to the D&M plan phase. But
20 I think the concern initially was that Miss Butts was
21 concerned that we'd be putting in layers and layers and
22 layers of timber mats --

23 MR. GOLEMBIEWSKI: Mmm-hmm --

24 MS. MANGO: -- to get across these

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1 wetlands to reach our structure sites in the upland
2 inclusion area. And our point is that there is a gravel
3 road, so we would put mats on top of the gravel road at
4 this point in time. The gravel road is about 18 feet
5 wide, the mats are about 16 feet wide I believe, so the
6 idea would be to mat right across the top of the road.
7 Now whether -- whether the construction people believe
8 you have to add more gravel or not, I couldn't say at
9 this point.

10 MR. GOLEMBIEWSKI: Okay. I mean -- I
11 guess my only concern is that if we made it more
12 accessible afterwards, would the rookeries be adversely
13 affected?

14 MS. MANGO: Well that's always a
15 potential. I mean, you know, the other option is -- you
16 know, the Blue Herons are not endangered as far as I
17 know, and they would move around. So -- I mean it could
18 become more accessible.

19 MR. GOLEMBIEWSKI: But I think the rookery
20 location -- they're fairly limited in where they -- where
21 they nest.

22 MS. MANGO: Yes. I -- I mean, I --
23 traditionally, CL&P does not like people using their
24 rights-of-way for third-party type of use --

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1 MR. GOLEMBIEWSKI: Okay --

2 MS. MANGO: -- so this might be an area
3 where one would investigate during the D&M plan phase
4 some types of -- you know, some types of techniques to
5 preclude access --

6 MR. GOLEMBIEWSKI: Okay --

7 MS. MANGO: -- you know, except for where
8 CL&P needs to get back in there for a maintenance issue.

9 MR. GOLEMBIEWSKI: Okay, thank you. Thank
10 you, Chairman.

11 CHAIRMAN STEIN: Thank you. Senator
12 Murphy.

13 MR. MURPHY: I have no questions, Mr.
14 Chairman.

15 CHAIRMAN STEIN: Mr. Wilensky.

16 MR. EDWARD S. WILENSKY: Yes. I apologize
17 if this question has been asked prior to my coming here,
18 and I apologize for being late. In Mr. Reese's letter
19 from DEEP on paragraph -- on page 7, the second paragraph
20 down, and the bottom sentence, the benefits of using
21 taller steel poles are also called into question. And
22 the use of H-frame structures compared to steel poles --
23 in other words, they -- Mr. Reese I think feels that the
24 lower magnetic fields between these two facilities reduce

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1 -- the H-frame structures compared to steel poles would -
2 - has that question been addressed at this meeting this
3 morning? If not, could I get an answer to that?

4 MR. CARBERRY: I don't believe anyone
5 asked that question this morning. The company's
6 recommendation and focus Area B, after a review of
7 alternatives in the Field Management Design Plan was to
8 build an H-frame line and not a -- not a steel delta
9 line.

10 MR. WILENSKY: What is -- what is
11 recommended -- the delta pole is recommended or is the H-
12 frame recommended?

13 MR. CARBERRY: In this area here CL&P has
14 recommended that we build an H-frame line.

15 MR. WILENSKY: Okay. Because according to
16 this letter, I think the interpretation that he had is
17 that delta poles are going to be used. And pretty much
18 what you've just -- if you've said what you've just said,
19 that would concur with --

20 MR. CARBERRY: I'm guessing that his
21 comment might have been stimulated by the fact that the
22 Town of Mansfield I think in their recommendation letter
23 had recommended that the -- I'm not sure of the way they
24 phrased it, but I think they were referring to the delta

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1 steel pole line here because it's farm area and they're
2 trying to minimize the footprint of it --

3 MR. WILENSKY: Okay --

4 MR. CARBERRY: -- and so I think Mr. Reese
5 was agreeing with CL&P.

6 MR. WILENSKY: Okay, thank you. Thank
7 you, Mr. Carberry. Thank you, Mr. Chairman.

8 CHAIRMAN STEIN: Mr. Levesque.

9 MR. LEVESQUE: Mr. Carberry, there was a
10 few questions about the possible -- the height of the
11 most common tower you're going to use, the H-frames being
12 a little taller than the existing ones. How will the
13 visual impact of those towers be less than the existing
14 ones?

15 MR. CARBERRY: I didn't hear the last part
16 of your question, sir?

17 MR. LEVESQUE: It will -- because there's
18 -- you don't have the cable ties on the top of those,
19 will that decrease the visual impact?

20 MR. CARBERRY: Well --

21 MR. LEVESQUE: Compared to the existing -
22 -

23 MR. CARBERRY: Well the existing -- the
24 tops of the existing structures have -- you just referred

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1 to them as cable ties or wire ties from the poles down to
2 a cross-arm and also a V-brace between the two poles that
3 also connects to the cross-arm, and in the proposed steel
4 pole configuration of a new line those braces wouldn't be
5 necessary. But the -- you know, the wires themselves are
6 relatively thin. I'm not sure that that stands out very
7 much in terms of visual -- of people's visual sense of
8 what that structure looks like.

9 MR. LEVESQUE: Well those interior ones
10 between the two poles are those angle steel that are a
11 little bigger?

12 MR. CASE: Yeah, it's actually a T-shaped
13 steel. It's a couple of inches wide.

14 MR. LEVESQUE: Yeah. I think that
15 decreases the visual clutter, and since it's the highest
16 spot too.

17 And then along most of the entire route of
18 the transmission line for all the types of poles, it
19 seems like the proposed poles are right next to the
20 existing poles. Why was it designed like that? And does
21 that improve -- will that make less of a visual impact
22 than having them all different places?

23 MR. CARBERRY: I'll -- I'll start the
24 response to this and maybe others can chime in. But

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1 certainly it's the starting point in any new line design
2 to put structures of a new line adjacent to those of an
3 existing line. It -- first of all, there's an assumption
4 that the people who built the existing line were
5 relatively smart and put the structures in good places,
6 good upland places as much as they could have --

7 MR. LEVESQUE: This was for access and
8 avoidance of wetlands and --

9 MR. CARBERRY: Well -- yes. And so there
10 might be existing access -- remnants of access roads that
11 go to that general vicinity, so it's to -- easier to put
12 a new structure right next to it, a shorter spur to get
13 there to build a new structure. You're also going to
14 have some symmetry in the lines so that these structures
15 being opposite one another, the conductors themselves,
16 the catenaries that they have will have a more
17 symmetrical appearance side-by-side.

18 So that's the -- you know, the starting
19 point. And then you begin to look at conflicts. For
20 example if the placing of a new structure side-by-side to
21 an existing line structure would put it in a wetland, you
22 know. And next we'll look at how do you get it out of
23 the wetland. And if you are able to move it out of the
24 wetland by moving the structure some distance out of the

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1 way, you know, there's a tradeoff, you've lost some of
2 the symmetry and maybe now you have to build more of an
3 access road spur to this new location than otherwise. So
4 the more you look at other kinds of constraints, the more
5 numbers of structures -- and you saw Mr. Reese suggested
6 a few as well -- some of those suggestions he made could
7 well be to move structures apart that we otherwise had
8 located side-by-side. I haven't checked that for a fact
9 yet, but that could be the case.

10 MR. LEVESQUE: Okay. And then as far as
11 your project management schedule, if -- if the Siting
12 Council -- and I don't know where it's going to end up --
13 regarding the crossing of the core lands, if -- if the
14 Council thought their approval should be for the --
15 you're settled upon the current widest route that has the
16 lowest towers was the best choice and that's how the
17 decision went hypothetically, how -- and then you go
18 ahead and contact the Corps of Engineers with this
19 conclusion, how would that affect your schedule?

20 MR. CARBERRY: I want to make sure I
21 understand the premise of your question. If -- I think
22 you said if the -- if the Council approved the original
23 proposed configuration --

24 MR. LEVESQUE: Right, for cost savings --

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1 MR. CARBERRY: -- so the matching
2 structures design, but ultimately the Corps did not, the
3 Corps only approve --

4 MR. LEVESQUE: Well I'm saying what --
5 what would you do if the decision was like that?

6 MR. CARBERRY: Well as soon as we learn
7 the Corps decision, we would have to be coming back to
8 the Siting Council with a request to reopen the
9 proceedings under changed conditions and have a
10 proceeding to see if the Council would approve what the
11 Army Corps would now approve. Some things like that have
12 happened on previous projects. They do add some number
13 of months of consideration to that part of the scope of
14 the project.

15 And as you see, sometimes in projects we
16 break up development and management plans into portions
17 of the project. So as long as the company was confident
18 that all pieces of the project were ultimately going to
19 be approved, we could go ahead with the construction of
20 some of other part of the project while this matter was
21 still being attended to. Now there's some risk in doing
22 so, and we haven't really discussed that yet, but -- so
23 maybe very little total schedule impact, maybe not.

24 MR. LEVESQUE: Thank you.

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1 CHAIRMAN STEIN: Attorney Fitzgerald.

2 MR. FITZGERALD: Thank you. I -- I think
3 in the -- in the past we've found that these post-
4 certification proceedings in coming back for a change
5 have typically taken about six months. And whether that
6 is a critical path item or not, I don't know. We'd have
7 to leave that to them.

8 But one thing that did occur to me in
9 listening to you today is that, you know, if you wanted
10 to see if you could have some influence on the Corps
11 decision, one way to do that without jeopardizing the
12 project schedule so much would be to do something like
13 Mr. Reese did in your decision and order and say we'd
14 prefer the original matching structures proposal because
15 we believe that the visual improvement outweighs the
16 minimal additional wetlands effect, and then there's the
17 habitat issue as well, and -- but then go on and -- you
18 know, so make the case for it, and then go on and say
19 however we recognize that there's only one decider here,
20 which is the Corps, and so the other two -- you know, the
21 other two options would be, to use Mr. Reese's language,
22 acceptable in the event that the Corps were to certify.
23 So that -- we had a pipeline case once where something
24 like that was done and -- and it worked, the Corps

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1 actually was persuaded by Mr. Gelston's persuasiveness
2 and changed -- changed -- or selected a different route
3 than they were leaning towards initially.

4 CHAIRMAN STEIN: Okay. Before we break
5 for lunch, I just want to see who of the various parties
6 intends to cross-examine this afternoon just to get a
7 sense. So, I'm just going to go down the list. I
8 suspect most of the parties I name don't even -- aren't
9 even here, but I want to be sure I don't miss anybody.
10 NRG? I don't think -- Mr. Civie, you -- is that -- is
11 that a yes from both of you?

12 MR. VICTOR CIVIE: Yes.

13 CHAIRMAN STEIN: Okay. EquiPower
14 Resource? UI? Mr. Bullard? The Office of Consumer
15 Counsel? Richard Cheney and The Highland Golf Course?
16 And the Montessori School?

17 Okay, so we'll come back at -- we'll be
18 back at 2:00 for the cross-examination. Thank you.

19 (Whereupon, a luncheon recess was taken.)

20 CHAIRMAN STEIN: I'd like to call the
21 meeting back into order. You're -- Attorney Fitzgerald,
22 your -- your team is ready for -- I think you've got
23 everybody -- okay --

24 (mic feedback)

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1 CHAIRMAN STEIN: Now that everybody is
2 awake -- okay. Before we go into the cross-examination,
3 we did have a motion to I guess cancel or postpone the
4 meeting that's scheduled for this Thursday. This was at
5 the I guess request of the Applicant. And I think we
6 sent a notice around to all the parties and I don't
7 believe we had any objections to doing it. Attorney
8 Bachman can --

9 MS. BACHMAN: Thank you -- thank you, Mr.
10 Chairman. Late last week CL&P had filed a preliminary
11 request for postponement that was basically dependent
12 upon how far we would get today on cross of the need and
13 alternative topic. Given that the Civies are planning to
14 conduct their cross-examination and no other parties or
15 intervenors have any further cross, it would likely be
16 recommended that we postpone the hearing for Thursday.
17 We did receive a letter from EquiPower Resources late
18 yesterday afternoon indicating that they would prefer
19 that we postpone the hearing for Thursday. However, now
20 that Mr. Civie is equipped with the microphone, I would
21 just like to ask his opinion?

22 MR. VICTOR CIVIE: Well I think we have no
23 alternative from a number of issues, so I'm for it.

24 MS. BACHMAN: Okay. So hearing no

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1 objections from any of the parties or intervenors, Mr.
2 Chairman, I would recommend that we grant this motion for
3 postponement and continue the evidentiary hearing.

4 MR. ASHTON: So moved.

5 DR. BELL: Second.

6 CHAIRMAN STEIN: All those in favor of the
7 motion, signify by saying aye.

8 VOICES: Aye.

9 CHAIRMAN STEIN: Opposed? Abstention?
10 The motion carries.

11 And we'll now resume cross-examination.
12 Mr. Civie.

13 MR. VICTOR CIVIE: Prior to this, I have a
14 procedural issue. I signed a non-disclosure agreement
15 with Mr. Fitzgerald, so I'm requesting that Mr.
16 Fitzgerald respectfully release me from this agreement.

17 MR. FITZGERALD: Yes. I'm in agreement
18 with that. Mr. Civie signed a subscription to the
19 protective order in anticipation of it being entered so
20 that I could give him the information ahead of time, he
21 wouldn't have to wait for it. And that's obviously been
22 overtaken by events now. So there is no protective order
23 to subscribe to and the paper that he signed and gave to
24 me is -- has no effect.

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1 MR. VICTOR CIVIE: Thank you, Mr.
2 Fitzgerald.

3 COURT REPORTER: (Indiscernible) --

4 MR. VICTOR CIVIE: Victor. Referring to
5 the document in question entitled Mount Hope Underground
6 Variation Cost Estimate Details, two general questions --
7 and we discussed some of these questions before -- can
8 you review how these figures were obtained?

9 MR. CASE: The -- the figures contained
10 within the estimate are a combination of experience in
11 working with contractors, vendors. We've reached out to
12 several vendors and received competitive pricing from
13 them. And some of it is professional experience and
14 knowledge that we've garnered over the years that's gone
15 into this estimate.

16 MR. VICTOR CIVIE: Also in review, these
17 figures are based on a three underground circuit
18 configuration as opposed to a typical two-circuit
19 configuration, correct?

20 MR. CASE: It is based on a three --
21 correct, a three-circuit underground.

22 MR. VICTOR CIVIE: So if the plan was for
23 two circuits instead of three, would these costs be
24 substantially lower?

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1 MR. CASE: The cost would most likely be
2 lower, yeah.

3 MR. VICTOR CIVIE: Alright. Moving on
4 down to the actual items, rock excavation, how did you
5 arrive at this figure?

6 MR. CASE: We -- we established what we
7 would call a typical trench. There was a previous
8 exhibit that was shown during the June 5th hearings that
9 we provided that shows the typical cross-section for the
10 underground duct bank. We've -- in order to accommodate
11 any work space that's necessary in there and the minimum
12 depths required for this, we assumed a minimum trench of
13 six-foot wide by seven-foot deep. That allows enough
14 room for workers to work alongside the conduit. And then
15 what we assumed for rock excavation was -- roughly 15
16 percent of that total excavation we assumed would be
17 rock.

18 MR. VICTOR CIVIE: The page you're
19 referring to, was that 15-B3, the picture?

20 MR. CASE: I'm referring to what was
21 provided to you on June 5th. The -- it's similar to --

22 MR. VICTOR CIVIE: Oh, the -- the --

23 MR. CASE: -- the cross-section of the
24 underground conduit, yeah.

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1 MR. VICTOR CIVIE: Alright. Did you dig a
2 test hole to determine the rock content of the area?

3 MR. CASE: No. We -- in this area these
4 estimates are conceptual. We have not yet done any
5 subsurface investigation. We've assumed 15 percent.
6 That's based on what we've seen in past areas. Frankly,
7 it's probably a little low in this area depending on what
8 the area looks like, but it does look like a rocky
9 mountainous area, so 15 percent was what we assumed as
10 reasonable when we were crossing from -- you know,
11 overall -- an overall percentage of rock throughout the
12 entire route.

13 MR. VICTOR CIVIE: I have a document from
14 Eastern Highlands Health District indicating the content
15 of one of the test holes in the region. And Mr.
16 Fitzgerald, I do not intend to proffer this document at
17 this time unless you request it. I'm just going to read
18 off of that and ask a question about it, about the
19 information in general.

20 So what this document indicates is zero to
21 six inches topsoil, six to thirty-two orange brown fine
22 sandy loam, and thirty-two to a hundred gray sandy loam,
23 and no rocks are indicated. If we have test holes
24 throughout this region similar to this, that is no rocks

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1 are indicated, it's basically sandy loam, would you
2 estimate then that this rock excavation cost would be
3 lower?

4 MR. CASE: With -- with your assumption
5 that that single typical boring would apply throughout
6 the length of the route, yes.

7 MR. VICTOR CIVIE: Alright, thank you.
8 Moving on down the list, we have fluidized -- fluidized
9 thermal backfill. Can you tell me how you arrived at
10 that?

11 MR. CASE: The -- the cost for the
12 fluidized thermal backfill?

13 MR. VICTOR CIVIE: Yes.

14 MR. CASE: Was -- was based on -- the
15 trench itself requires high strength concrete to cover
16 the entire conduits and cables. Above that is a
17 fluidized thermal backfill. The units that were pulled
18 from that were from previous project experience.

19 MR. VICTOR CIVIE: Alright. The next item
20 is zero. Can you comment on the item after that?

21 MR. CASE: Pavement restoration?

22 MR. VICTOR CIVIE: No, the item after
23 that.

24 MR. CASE: Plating?

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1 MR. VICTOR CIVIE: Plating.

2 MR. CASE: Yeah. That's -- that's for
3 plating for covering holes to leave any excavation that
4 needs to end at the end of the day in a safe condition.
5 So we made sure that -- regardless of where that
6 excavation is, you want to make sure that you leave it in
7 a safe condition so nobody is going to fall --

8 MR. VICTOR CIVIE: Let's move down to
9 contaminated soil testing and disposal. Can you comment
10 on that estimate?

11 MR. CASE: Yeah. Because when we're
12 excavating this seven-foot by six-foot trench, those
13 spoils because they're being replaced by concrete and a
14 fluidized thermal backfill need to go somewhere. So we
15 have to haul off the majority of or all of the spoils
16 that are pulled from the trench.

17 There's -- the majority of that is what we
18 consider to be relatively clean, so it can go to a
19 facility that will accept clean fill. There is an
20 assumption of some polluted soils that will need to go to
21 a facility that would accept that at a higher rate. And
22 because we are originally at Mount Hope looking at
23 excavating throughout some agricultural lands where
24 pesticides could have been used, we -- we think that's a

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1 reasonable assumption.

2 MR. VICTOR CIVIE: Can you tell me where
3 this consideration -- it's a large amount, one-million
4 and three-hundred thousand dollars. Can you tell me a
5 prior proposal where such a large amount of even where
6 this item appeared on a cost proposal?

7 MR. CASE: Absolutely. The
8 Middletown/Norwalk we had extensive contaminate soils
9 disposal. Even on our GSRP project now, just excavating
10 the soils for the foundations and for the overhead line
11 structures, that excavated soil needs to be removed from
12 the right-of-way in most cases, so --

13 MR. VICTOR CIVIE: And why is that?

14 MR. CASE: Well in most cases we don't
15 want to spread it in somebody's yard or --

16 MR. VICTOR CIVIE: No, but I mean what was
17 -- what is the source of the contaminates?

18 MR. CASE: Why is it contaminated?

19 MR. VICTOR CIVIE: Yes.

20 MR. CASE: That's a broad topic. I'd ask
21 Miss Mango perhaps if she could help on that, but there's
22 a variety of pesticide use throughout the right-of-way -
23 -

24 CHAIRMAN STEIN: Excuse me. Mr. Ashton

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1 would like to clarify.

2 MR. ASHTON: I have a couple of clarifying
3 questions if I may, Mr. Civie.

4 MR. VICTOR CIVIE: No problem.

5 MR. ASHTON: You're using underground
6 construction costs. Are those the costs that were
7 incurred in the Greater Bridgeport area as part of Docket
8 370 -- 272?

9 MR. CASE: We used Middletown/Norwalk as a
10 basis for much of our estimates here.

11 MR. ASHTON: And that is Docket 272?

12 MR. CASE: That's 272.

13 MR. ASHTON: Why are the costs in an urban
14 area like Greater Bridgeport, if you'll forgive me,
15 relevant to the relatively open spaces that we're getting
16 here on this line?

17 MR. CASE: Actually if we did a
18 comparison, where you would see on Middletown/Norwalk
19 police protection, plating, those items are obviously
20 going to be much higher than -- than they are here. So
21 we've actually taken into account the rural atmosphere of
22 this route --

23 MR. ASHTON: Are you going to need any
24 police protection on this route?

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1 MR. CASE: We -- we do have police
2 protection on here, but it's a much lower amount than
3 what we've seen in the Middletown/Norwalk.

4 MR. ASHTON: How -- how about contaminated
5 soil? That's again an urban area, it's been worked,
6 reworked, and abused for a couple of centuries, where I
7 think that the applicable ground here is probably virgin
8 soil.

9 MR. CASE: Yeah. Again, we made an
10 assumption that there is going to be a portion of it that
11 is going to be -- is going to contain pollutants. And
12 what we assumed was that roughly -- that there's -- well
13 a lot of different -- different factors that go into
14 that, but there's potentially some soil that would have
15 to go to a facility that would handle those types of
16 polluted soils.

17 MR. ASHTON: When you say some, what are
18 we -- what does some mean, five percent, three percent,
19 thirty percent, fifty percent?

20 MR. CASE: Well we're disposing of all of
21 the soil, all of --

22 MR. ASHTON: Yeah, I understand the
23 difference with what you're doing.

24 MR. CASE: Yeah.

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1 MS. MANGO: I think there's two parts to
2 your question. The first part is that before anyone will
3 take any soil these days, they all -- all the soils --

4 MR. ASHTON: They do samplings --

5 MS. MANGO: -- have to be tested --

6 MR. ASHTON: Yeah --

7 MS. MANGO: -- so even -- you're correct,
8 you know, compared to the Middletown/Norwalk Project
9 where we were doing underground construction beneath
10 streets through Bridgeport, Fairfield, Norwalk, we have
11 different issues, but the problem is that we would still
12 have to do a test -- test all the soils and have a
13 materials handling plan for any underground construction.
14 And then based on the results of your testing, then you
15 would decide where the different soils would have to go.
16 And I think one of the problems we have is in an area
17 where you might have had some historical agricultural
18 use, you may still get some residual heavy metals or
19 something that might have been in pesticides or
20 herbicides or something that was put there. So you can't
21 just assume that it's clean --

22 MR. ASHTON: Okay --

23 MS. MANGO: -- but there's no way that you
24 could say with certainty, you know, X percent is clean.

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1 And I think, you know, what Mr. Case is saying is they
2 made an assumption. It's not as though you're in
3 Bridgeport --

4 MR. ASHTON: Yeah, I'm just trying to find
5 out what the assumption was --

6 MS. MANGO: Right.

7 MR. CASE: I'd be happy to -- we -- we've
8 got an assumption of a hundred percent going to a
9 Subtitle D landfill. So that's a polluted soil with --
10 it meets RSRs, which I would have to dig into that a
11 little bit more and --

12 MR. ASHTON: Would Mrs. Mango explain what
13 that is please for us untutored ones?

14 MS. MANGO: You know, I don't have those
15 regulations in front of me. We'd have to check that for
16 you --

17 MR. ASHTON: Okay --

18 MS. MANGO: -- because those regulations
19 are complicated --

20 MR. ASHTON: I have --

21 MS. MANGO: -- but I would assume that the
22 calculations did not assume that these soils would be
23 shipped say to a Love Canal area --

24 MR. ASHTON: I have no problem

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1 understanding that you have to check all the soils --

2 MR. CASE: Yeah --

3 MR. ASHTON: -- I have no problem
4 understanding that even uncontaminated soil has to be
5 disposed of differently and properly. What I'm
6 questioning is what was the proportion of seriously
7 contaminated soil.

8 MR. CASE: Yeah, the --

9 MR. ASHTON: The -- the other -- well go
10 ahead.

11 MR. CASE: I was going to say we did
12 assume -- and this will be my layman's language, that it
13 will go to a Subtitle D landfill, that's polluted soils
14 greater than a non-detect that meet the RSRs. We did not
15 assume any hazardous soils, which are the more polluted,
16 more as you'd say Love Canal type of soils in a Subtitle
17 C landfill. So it's all a -- you know, greater than a
18 non-detect. You're -- you're going to see some potential
19 --

20 MR. ASHTON: Okay, I -- I'm not going to
21 flog this to death, but there's something in there that
22 says material contamination, significant contamination.
23 I think in fairness we ought to know what is part of the
24 estimate.

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1 MR. CASE: It -- zero percent of what's
2 been assumed is hazardous --

3 MR. ASHTON: Okay --

4 MR. CASE: -- contaminated --

5 MR. ASHTON: In the same vein were
6 excavation rates, the cost of excavation used in
7 Southwest Connecticut the same rates that were used in
8 this Card Street to Rhode Island line?

9 MR. CASE: Yes, they were, with the
10 appropriate escalation factors for the cost of labor.

11 MR. ASHTON: How do you -- that's
12 interesting because the cost of labor in Southwest
13 Connecticut is much higher than it is in Eastern
14 Connecticut. Did your estimates recognize that?

15 MR. CASE: They utilized the same unions,
16 which pay --

17 MR. ASHTON: They did what?

18 MR. CASE: They utilized the same unions,
19 same union scale throughout Connecticut.

20 MR. ASHTON: Are you proposing this work
21 only be done by union labor?

22 MR. CASE: We have assumed that this would
23 be done by union labor, yes.

24 MR. ASHTON: Why? There's all kinds of

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1 non-union contractors in Eastern Connecticut.

2 MR. CASE: Our -- our assumption was that
3 -- we've typically constructed with union forces. We've
4 had a good relationship. We've established relationships
5 with union contractors and that was our assumption.

6 MR. ASHTON: Okay, I'll let it go. Thank
7 you.

8 MR. VICTOR CIVIE: Alright. Getting back
9 to the testing issue, so you haven't performed any of
10 these tests right now, correct?

11 MR. CASE: We have done no subsurface
12 investigation.

13 MR. VICTOR CIVIE: Alright. So can you
14 describe the testing process?

15 MR. CASE: The testing process? What
16 testing process?

17 MR. VICTOR CIVIE: The process to test the
18 soils, the contaminated soil testing and disposal.

19 MR. CASE: Well, we would start with --
20 with -- are you asking how we would test the contaminated
21 soils?

22 MR. VICTOR CIVIE: To test for
23 contaminated soils.

24 MR. CASE: We would have a soil scientist

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1 go out and take soil samples and send it to a lab for
2 analysis.

3 MR. VICTOR CIVIE: Alright. And what --
4 how much of that do you think that would cost as part of
5 this estimate?

6 MR. CASE: A few thousand dollars.

7 MR. VICTOR CIVIE: A few thousand dollars.
8 So I'm still -- don't know where this million three is
9 coming from.

10 MR. CASE: I can provide you a little
11 further breakdown if that -- if that helps.

12 MR. VICTOR CIVIE: That would be fine.

13 MR. CASE: Okay. For hauling earth spoils
14 to a staging, there's -- there's grading costs, grading
15 at the dump with a dozer, there's excavating and loading
16 all the spoils to go out, there's transport and dispose
17 of polluted fill. And that's all at roughly \$79.00 total
18 per ton.

19 MR. VICTOR CIVIE: Alright. And all this
20 is assuming that it goes to that special dump site?

21 MR. CASE: It's assuming it goes to a
22 Subtitle D landfill.

23 MR. VICTOR CIVIE: So if it didn't, the
24 cost would be substantially less, correct?

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1 MR. CASE: It would be less if it was not
2 polluted soils. It could get pulled somewhere else,
3 yeah.

4 MR. VICTOR CIVIE: Alright. Miss Mango,
5 Mr. Case was referring to perhaps -- and you did too to
6 residual pollutants. What herbicides are used right now
7 on the right-of-way?

8 MS. MANGO: What herbicides does CL&P
9 use?

10 MR. VICTOR CIVIE: Correct.

11 MS. MANGO: I -- I have no idea. That
12 would be a question for Tony Johnson from the right-of-
13 way management crew.

14 MR. VICTOR CIVIE: I see. In regards to
15 residual pollutants, we're talking -- do you have any
16 idea of how long ago or what the duration of these
17 residual pollutants might -- how long they might last?

18 MS. MANGO: Well I think what we're
19 talking about here is that -- when CL&P takes any dirt
20 out of the ground, even if it's for their overhead lines
21 when they're doing an excavation, they still have to test
22 the soil before they dispose of it somewhere. And the
23 issue that we have is that you really don't know what the
24 land was used for, even before you bought it. I mean in

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1 the old days people used to just take their equipment out
2 in a field and they dumped their oil. You know, there
3 are a lot of things that were done that we now know are
4 not good. For example, along railroads -- and you don't
5 have railroads near your property -- but arsenic was
6 used. So whenever I've worked on projects involving the
7 crossing of a railroad, we always have to test for
8 arsenic, you know, because that's apparently what they
9 used to, you know, keep weeds down from the track bed.

10 So you really don't know what you have out
11 there, but what we've found, whether it's an overhead
12 line or an underground line, you do have to test the
13 soils. And what typically is involved, following up on
14 what Mr. Case said, is typically CL&P hires a specialized
15 soils, groundwater/laboratory firm. They have people
16 that go out there and they take soil borings. They go to
17 project depth and somewhat beyond. And if there's a
18 chance of encountering groundwater, if they do encounter
19 groundwater, then we have to test for the groundwater as
20 well. So there are really two separate programs. I
21 don't -- I was not involved in the estimate here, so I
22 don't know what was included, but -- for example, the
23 Middletown/Norwalk Project that Mr. Ashton referred to,
24 there was a very big program to do that; the testing of

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1 soils, the testing of groundwater, separate firms
2 involved in each, separate laboratory analyses. The
3 laboratory analyses for a full scale chemical scan, you
4 know, it could run fifteen hundred dollars apiece. I
5 have no idea how many soil samples will be taken here.
6 It wouldn't be every foot of the right-of-way, but it
7 would be, you know, some kind of sampling design, and
8 sometimes it has to be approved in advance by DEP.

9 MR. VICTOR CIVIE: How long have you had
10 this policy in effect, that is testing the soils in this
11 way?

12 MR. CASE: We've -- we've had that in
13 effect for quite some time now. I wouldn't know the
14 original start date for when we started testing soils for
15 contaminates.

16 MR. VICTOR CIVIE: In the year 2000, would
17 you have had it by then?

18 MR. CASE: It was in place by then, yeah.

19 MR. VICTOR CIVIE: Alright. Referring to
20 the Bethel/Norwalk Project, Schedule C -- 12-C
21 application dated January 12, 2005, on the Appendix 5-7
22 you propose 9.4 miles of HPFF line. And in looking at
23 that page, I don't see any column for --

24 A VOICE: (Indiscernible) -- copies of --

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1 MR. VICTOR CIVIE: I -- I do not.

2 MR. CASE: We probably would not have
3 broken out contaminated soils as a separate line item in
4 the 12-C application.

5 MR. VICTOR CIVIE: Alright.

6 MR. CASE: It's most likely within the
7 cost of the construction --

8 MR. VICTOR CIVIE: Alright, that's --
9 that's okay.

10 MR. CASE: I do know that we did have
11 extensive soil disposal costs on the Bethel/Norwalk.

12 MR. VICTOR CIVIE: Wouldn't it have been
13 prudent in looking at the differences in the costs of
14 possible contamination and non-contamination to have
15 tested -- at least spot tested the soil first?

16 MR. FITZGERALD: Objection. I don't
17 understand the question.

18 MR. VICTOR CIVIE: Well the estimate was
19 for 1.3 million dollars. I would guess that if you're
20 putting this soil into a regular landfill, it would be a
21 fraction of that cost. And yet, you have an estimate for
22 the highest possible cost instead of the lowest possible
23 cost. Wouldn't it have been prudent to find out which
24 applied?

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1 MR. FITZGERALD: Is the question wouldn't
2 it have been prudent to do a soil sampling --

3 MR. VICTOR CIVIE: Prior to --

4 MR. FITZGERALD: -- prior to doing a cost
5 estimate?

6 MR. VICTOR CIVIE: Correct.

7 MR. CASE: We have various levels of cost
8 estimates as -- as dictated by ISO PP4 guidelines. This
9 would be what we consider a conceptual grade estimate.
10 We do have to make estimates, we do have to understand
11 the order of magnitude costs of projects before we can
12 get out in the field and do further refinements of those
13 costs.

14 This is a conceptual grade estimate. We
15 assumed -- we have a level of project definition between
16 15 and 40 percent. We have done no subsurface
17 investigation as you said. That -- that conceptual grade
18 estimate because of the detailed engineering that has not
19 been done has a -- has a range of minus 25 percent to
20 plus 50 percent accuracy ban on it to account for -- just
21 what you say, it will allow us to get an idea of what our
22 costs are at this point before we take that next step and
23 begin further investigation.

24 MR. VICTOR CIVIE: Thank you. The next

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1 item, clearing and grubbing the access road, another one
2 million dollars for that. As I look at the map and just
3 a general -- at one of the maps that was provided, can
4 you tell me where this clearing and grubbing is going to
5 occur -- at least the clearing is going to occur?

6 COURT REPORTER: One moment please.

7 (pause - tape change)

8 MR. CASE: The -- the clearing and
9 grubbing in the existing right-of-way, that number
10 includes the construction of access roads, 1.1 miles of
11 access roads through this area of wetlands. It's not an
12 unreasonable number and one that we've found to be
13 consistent with our overhead estimate.

14 MR. VICTOR CIVIE: Okay, so part of this
15 is for an access road. Now I understand in just going
16 the property, the first perhaps half-mile, not quite that
17 long, until you get to 192, it's going through CL&P land,
18 which is flat field, and it's going through someone using
19 the land -- still another field, a farmer using it for
20 the field. Would you need an additional access road
21 through there?

22 MR. CASE: We would need to build an
23 access road through there. The -- the farmer's field
24 would not provide an adequate base for concrete trucks,

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1 for excavators --

2 MR. VICTOR CIVIE: Mmm-hmm --

3 MR. CASE: -- for the type of construction
4 equipment that we're required to bring in.

5 MR. VICTOR CIVIE: So the access road
6 that's there now will meet your standards. Is that what
7 you're telling me?

8 MR. CASE: It -- it would require
9 improvements even under the overhead alternative.

10 MR. VICTOR CIVIE: Mmm-hmm. Going -- so
11 can you identify any spot where there's going to be
12 clearing and grubbing?

13 MR. CASE: I would say all up the hill
14 from Storrs Road to the west.

15 MR. VICTOR CIVIE: And why would you need
16 clearing and grubbing there?

17 MR. CASE: Because there's -- there's
18 trees, there's brush, there's stumps that need to be
19 removed out of there.

20 MR. VICTOR CIVIE: So you're suggesting
21 then that trees need to be cut?

22 MR. CASE: There would be -- there are --
23 there would be some vegetation clearing.

24 MR. VICTOR CIVIE: If we take your cross-

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1 section on 15B-3, this is going back to the underground
2 variation, what it indicates is that the underground
3 configuration can be put right in the road that's already
4 been cleared, correct?

5 MR. CASE: It would be able to fit within
6 the area that has been cleared of large trees, but -- I
7 know you're very familiar with that right-of-way, and it
8 is very well overgrown. Clearing and grubbing is really
9 taking a mowing machine in there to prune down all of the
10 overgrown brush that has come up.

11 MR. VICTOR CIVIE: So not necessarily
12 taking down stumps, but taking down the brush and things
13 of that nature, clearing it out and making sure that the
14 access road is acceptable --

15 MR. CASE: Correct --

16 MR. VICTOR CIVIE: -- is that -- is that
17 correct?

18 MR. CASE: Yeah.

19 MR. VICTOR CIVIE: Alright. And you feel
20 you need one million dollars for that?

21 MR. CASE: We feel that that's a
22 reasonable estimate absolutely, particularly based on
23 what we've been seeing on access roads anywhere,
24 particularly when you start adding in matting

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1 requirements. It's not very far off of where we're
2 seeing our overhead line construction. And this would be
3 a much more substantial road. It would require end-to-
4 end construction of an access road that would require,
5 you know, full-time access going forward from transition
6 station down to transition station. It would be more
7 than what would be required for an overhead line.

8 MR. VICTOR CIVIE: The equipment you have
9 proposed then in regards to the access road -- I mean I'm
10 familiar with some of this equipment and they could get
11 into just about anything. In regards to justifying the
12 one million dollar cost are you suggesting then that you
13 don't have that same amount of equipment or you're using
14 different equipment? What -- what particular equipment
15 do you need that can't use the road right now?

16 MR. CASE: I would --

17 MR. FITZGERALD: Excuse me. What
18 equipment do they need that can't use --

19 MR. VICTOR CIVIE: Right, that can't --

20 MR. FITZGERALD: -- the existing --

21 MR. VICTOR CIVIE: -- that can't use the
22 existing access road.

23 MR. CASE: There's -- along the existing
24 access road that runs up that hill there's no way that a

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1 concrete truck can get up there now. There's no way that
2 the cable low-boy vehicle that's hauling a reel of this
3 cable that's 30 pounds a foot, and probably about 2,000
4 pounds of it, up that 15 to -- 12 to 15 percent slope.
5 And not just the construction of the underground line,
6 but again this is going to be required for permanent
7 maintenance of the transition station. It would require
8 people to access that transition station on probably a
9 weekly basis.

10 MR. VICTOR CIVIE: Mmm-hmm. Alright,
11 moving along, engineering, permitting, you have nine
12 million dollars scheduled for that. Can you discuss
13 that?

14 MR. CASE: Yeah, we -- we have to take
15 assumptions again based on prior project experience on
16 the costs for the engineering, construction management,
17 permitting, siting support, legal support, environmental
18 support, to site, engineer, and build a project. So we
19 base that on percentages of construction, and that's --
20 that's roughly -- I'll have to double check on the exact
21 numbers, but it's in the 10 to 15 percent range, which is
22 -- is entirely reasonable for a project of this size
23 magnitude.

24 MR. VICTOR CIVIE: For one mile?

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1 MR. CASE: Yes --

2 MR. VICTOR CIVIE: -- of underground line
3 -- alright. I would appreciate it if we did get Schedule
4 12-C.

5 MR. CASE: Yeah. If I can just go back to
6 your point on the one-mile? If we were building just one
7 mile, that would be true, but what we're working on right
8 now would also have to be considered within that one
9 mile. We are building a 36-mile project --

10 MR. VICTOR CIVIE: Mmm-hmm --

11 MR. CASE: -- and those costs for the
12 engineering get supported throughout the cost of the
13 project. So it's not just allocating those costs. There
14 are some costs that are shared among the entire project
15 that have to get put in there as well.

16 MR. VICTOR CIVIE: Alright. So these
17 costs don't particularly pertain to this project, some of
18 them do -- a portion of them do and some of them don't
19 basically is what you're saying. It's allocated
20 throughout the project?

21 MR. CASE: We have to allocate -- yes, we
22 have to -- and when we recover rates, we have to allocate
23 all of our costs into the assets that they've gone to
24 help build.

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1 MR. VICTOR CIVIE: Alright. Escalation.
2 When you're talking about the Middletown Project and can
3 you tell me when or what dates you're looking at as far
4 as the Middletown Project in regards to obtaining these
5 costs, roughly?

6 MR. CASE: The procurement effort for
7 Middletown was probably in the 2006 time frame,
8 construction in 2007.

9 MR. VICTOR CIVIE: 2007. So you're saying
10 '06, '07 is when you obtained these particular costs?

11 MR. CASE: Correct.

12 MR. VICTOR CIVIE: Are you familiar with
13 the prices of aluminum and steel? That is are you aware
14 that aluminum steel reached its highest cost in about
15 2007, 2008?

16 MR. CASE: I am aware of that.

17 MR. VICTOR CIVIE: So if aluminum steel
18 were lower today than that time, these estimates might be
19 lower?

20 MR. CASE: What we've done -- we would
21 construct this out of copper -- the cable would be copper
22 and not aluminum. The steel that we have quoted in here
23 is based on recent prices. We have gone out to vendors
24 for the price of the cable. We've gone out to four

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1 different vendors. And this is where we're getting into
2 our concerns with confidentiality. We received unit
3 pricing from four different cable vendors --

4 MR. VICTOR CIVIE: Mmm-hmm --

5 MR. CASE: -- at the time that this
6 estimate was made. We selected the lowest of those four
7 vendors to utilize for our construction unit pricing.

8 MR. VICTOR CIVIE: Going back then, let me
9 add copper to the list then. So copper was at its high
10 in 2007 and 2008 also, correct?

11 MR. CASE: I'll have to trust you on that,
12 I'm not sure --

13 MR. VICTOR CIVIE: Alright --

14 MR. CASE: -- I know copper has been --
15 still going up --

16 MR. VICTOR CIVIE: That's fine. But what
17 you're saying is then that part of your quote then was
18 not escalated?

19 MR. CASE: Well when -- when we say
20 escalation, I think we need to clarify. We have not been
21 -- what we've done is we've rebased lined our estimate in
22 2011 with reaching out to the various vendors, to
23 reaching out to contractors, utilizing the experience
24 that we're gaining on GSRP with contractor installation

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1 costs. So these numbers that you see here, take out the
2 escalation, those numbers are 2011 numbers. What we are
3 escalating is we have to assume that -- you know, we
4 don't know what the price of copper is going to do
5 between now and two years when we may be constructing
6 this. So we do -- we have to assume a certain amount of
7 escalation that's going to continue. We've assumed --
8 we've estimated in 2011. We're taking these dollars out
9 to the year of spend and we're escalating them at three
10 percent a year.

11 MR. VICTOR CIVIE: It's possible then it
12 could go down as well if prices go down and labor is
13 cheaper?

14 MR. CASE: We -- we've got -- it's
15 possible. We've -- we've run these escalation rates
16 through our -- we have a forecasting group within the
17 company. We've also use Handy Whitman Indexes to see
18 where they -- you know, the global market to see where
19 prices are going to continue to rise.

20 MR. VICTOR CIVIE: Transition station
21 construction. We've discussed the different
22 possibilities for transition stations. What this price
23 I'm assuming -- there was this one page that you had in
24 the application describing the station itself. The cost

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1 is based on this page? That is I'm assuming this is not
2 based on those pictures of the H feed at that line?

3 MR. CASE: That's correct. We've -- we've
4 estimated what we are proposing in this option.

5 MR. VICTOR CIVIE: Alright. And these
6 transition stations were based on what we discussed prior
7 to that, three circuits, the extended 3K bus with a
8 switching --

9 MR. CASE: Correct.

10 MR. VICTOR CIVIE: Alright. So going back
11 then again, if we were only doing two circuits and
12 limited 345-k, these costs would be a lot less?

13 MR. CASE: You would have less equipment
14 and your costs would be -- would be lower. I don't know
15 if I would categorize it as a lot, but it would be less.

16 MR. VICTOR CIVIE: Alright. In regards to
17 contingency, you have 8.7 million for contingency. Can
18 you explain that?

19 MR. CASE: Yeah, we've -- we've assumed
20 contingency based on our direct costs. These are to
21 account for what we've seen to be occasions that crop up
22 that in any project are hard to estimate, hard to account
23 for, but you always have issues that crop up. We've
24 estimated contingency on this at roughly 15 percent of

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1 the direct costs, a little bit less. And that is
2 consistent with typical industry practice for an estimate
3 of this grade.

4 MR. VICTOR CIVIE: Alright. In regard to
5 contingency then -- where have you used this before?

6 MR. CASE: Where have we used contingency?

7 MR. VICTOR CIVIE: Yeah.

8 MR. CASE: On every single project that
9 we've ever constructed has had to utilize some level of
10 contingency. That may be a broad statement, but --

11 MR. VICTOR CIVIE: Alright --

12 MR. CASE: -- we're always running into
13 issues in the field that you just wouldn't imagine that
14 require contingency.

15 MR. VICTOR CIVIE: Of eight million
16 dollars?

17 MR. CASE: It's based on a percentage of
18 construction, and this is a lot of construction going
19 on.

20 MR. VICTOR CIVIE: Alright. I really want
21 to go back to Schedule -- to the Schedule 12-C
22 application dated January 12, 2005. Can we get that?
23 And let's look at Appendix A, 5 of 7. This is the cost
24 for the underground 9.4 mile line.

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1 MR. CASE: Okay, I see it, yeah.

2 MR. VICTOR CIVIE: Where is contingency on
3 that?

4 MR. CASE: Contingency has been pulled
5 into -- at the time that a project is built contingency
6 has been put into the assets. So it's baked in there.
7 If I were to take a look at the estimate that was
8 provided prior to this being built, there would be
9 contingency in there, and I would be pretty sure that
10 some of that contingency has gone into all of these line
11 items.

12 MR. VICTOR CIVIE: So you don't see though
13 a separate item for contingency on there?

14 MR. CASE: Not after a project is built,
15 no.

16 MR. VICTOR CIVIE: No. Just taking a look
17 at that 10 miles, what was the engineering and
18 administrative costs for the 10 miles of cable?

19 MR. CASE: It looks like about 10 percent
20 -- a little bit less than 10 percent.

21 MR. VICTOR CIVIE: Alright, about 10
22 percent --

23 MR. CASE: Yeah --

24 MR. VICTOR CIVIE: -- of the total costs.

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1 So if this cost was a lot less -- let's say that we had a
2 proposal -- you could do this for 10 million dollars,
3 then you're saying that the engineering and
4 administrative costs would only be 10 percent of that, a
5 hundred thousand -- or I'm sorry -- 10 percent of 10
6 million, so one million?

7 MR. CASE: In this case yes, but our --
8 our estimate assumes it's around 13 percent.

9 MR. VICTOR CIVIE: Mmm-hmm. And we're
10 taking this -- so -- we're also planning on -- in -- well
11 in regards to the contingency then, basically the
12 engineering since we're doing a flat 10 to 15 percent of
13 the board, we're basing our engineering and permitting on
14 that contingency -- or that contingency? You have a
15 total, the total -- that contingency is part of the
16 total. So basically we're saying -- what you're saying
17 is that the engineering and permitting is going to be 10
18 percent of the contingency as well?

19 MR. CASE: I don't think --

20 MR. VICTOR CIVIE: Well can you -- can you
21 tell me where again -- how you arrived at the engineering
22 and permitting?

23 MR. CASE: Well in this case it was again
24 based on actuals. This was after a project was built or

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1 nearly completely built --

2 MR. VICTOR CIVIE: Mmm-hmm --

3 MR. CASE: -- so what they were able to do
4 was, you know, account for any charging through the work
5 order system that engineers and lawyers and various
6 administrative personnel charged to that particular work
7 order and spread it among the -- among the assets. So
8 this is an actual. This was not based on a percentage,
9 but this is how we base future estimates.

10 MR. VICTOR CIVIE: Mmm-hmm. Alright. So
11 what we're looking at then for the contingency -- just to
12 -- just to finish this off then, it's 8.7 million
13 dollars. Basically, it's derived on a percentage of the
14 total -- a percentage of what your total estimate was.
15 And the question I asked then is if that total estimate
16 was a lot less, the contingency would be a lot less.

17 MR. CASE: Was there a question?

18 MR. VICTOR CIVIE: Yes.

19 MR. FITZGERALD: That's a question --

20 MR. VICTOR CIVIE: That's a question.

21 MR. CASE: Yeah.

22 MR. VICTOR CIVIE: Alright. So if the
23 estimate, the total estimate of 65 million dollars was
24 let's say 10 million dollars, your contingency would be a

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1 lot less, correct?

2 MR. CASE: Yes.

3 MR. VICTOR CIVIE: Alright. Why would the
4 underground costs not be regionalized?

5 MR. CARBERRY: ISO New England in the
6 transmission cost allocation process for regionalizing
7 costs in New England looks at something called good
8 utility practice, and they -- they have set some
9 precedents in previous rulings in this regard. So
10 they're looking to see that a project has been designed
11 and built in a lowest reasonable cost way, practical and
12 feasible way. And if they find in the examination of a
13 cost allocation application that a project has been built
14 more expensively than it could have been built, they
15 localize the difference. If underground -- building
16 something underground when it could have been built
17 overhead was the cause of it being higher in costs than
18 it could have been built overhead if it was practical and
19 feasible to build overhead, that difference spent on
20 underground would be localized. So it isn't the fact
21 that it's underground per se that makes it localized.
22 It's the fact that it's anything you do to make it a
23 higher cost project than it was -- than you could have
24 done in a practical and feasible engineering way.

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1 MR. VICTOR CIVIE: How long were these
2 directives in place, that is this process in place? Was
3 it -- this process in place, the regionalization process
4 the same methodology used in the Bethel/Norwalk Project?

5 MR. CARBERRY: It certainly was in place.
6 I don't know if any -- if any of its rules have changed
7 since then, but the basic process was in place at that
8 time. And Bethel/Norwalk is one of the first projects to
9 see a large localization of its costs.

10 MR. VICTOR CIVIE: How does the
11 regionalization affect the taxpayer? That is how does
12 the -- where does the money come from?

13 MR. FITZGERALD: Excuse me --

14 A VOICE: Taxpayer?

15 MR. VICTOR CIVIE: The Connecticut
16 taxpayer.

17 MR. FITZGERALD: Taxpayer, not -- not
18 ratepayer -- electric consumer.

19 MR. VICTOR CIVIE: Right, ratepayers.

20 MR. CARBERRY: Well the -- using the
21 Bethel/Norwalk Project as an example, the portion of the
22 project costs that were regionalized, and I don't recall
23 the exact number, but it was approximately two-thirds of
24 the total costs were regionalized, Connecticut electric

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1 consumers ended up paying 27 percent of the total cost of
2 the project. And all of the remaining electricity users
3 in New England are paying the rest.

4 MR. VICTOR CIVIE: Alright. And how does
5 that work? Where does that money come from?

6 MR. CARBERRY: It comes from everyone who
7 pays an electric bill throughout New England.

8 MR. VICTOR CIVIE: Alright. So --

9 MR. CARBERRY: And --

10 MR. VICTOR CIVIE: -- what you're saying -
11 - go ahead, I'm sorry.

12 MR. CARBERRY: I was just going to say the
13 part that is regionalized is paid -- is taken care of
14 that way. If ISO declares that some portion of the
15 project should be localized, as they did in
16 Bethel/Norwalk about a third of the costs, they are
17 basically saying that they are not willing to make the
18 other states pay a share of the costs -- a share of that
19 localized cost --

20 MR. VICTOR CIVIE: Mmm-hmm --

21 MR. CARBERRY: -- and then it falls to,
22 you know, a process involving a state as to how those
23 costs should be recovered, should they be recovered in
24 this case just from CL&P ratepayers, should they be

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1 recovered from all ratepayers in Connecticut, or what
2 else. And I think in Bethel/Norwalk's case they ended up
3 being recovered from all ratepayers, all electricity
4 users in Connecticut regardless of whether they were CL&P
5 customers or not. I don't know if that's a decision that
6 will be the precedent for the next one or the next one,
7 but that's what was -- that's what happened with that
8 case.

9 MR. VICTOR CIVIE: Okay. That's not
10 really what I was asking. So basically you as a company,
11 you're ready to start construction -- or you've started
12 the construction and you need to get paid, you need to
13 have funds. What -- what -- 27 percent is coming from
14 the state. We have another 73 percent though that's
15 coming from someplace else. Where is that coming from?
16 How -- how are you obtaining that money?

17 MR. FITZGERALD: Excuse me. You're asking
18 a question about the flow of funds, not ultimately who
19 ends up with the ultimate responsibility for paying it,
20 but how do they finance the construction --

21 MR. VICTOR CIVIE: Correct --

22 MR. FITZGERALD: -- and then -- and then
23 collect the cost of it?

24 MR. VICTOR CIVIE: No, what I'm -- well

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1 basically what I'm asking is how do they collect the cost
2 of it, that 73 percent, where does that money come from?

3 MR. CARBERRY: There's a -- there's a
4 transmission rate assessed against all ratepayers in New
5 England --

6 MR. VICTOR CIVIE: Including Connecticut.
7 So Connecticut's -- even though we're only paying 27
8 percent, we pay again for that 73 percent as well?

9 MR. CARBERRY: If there are localized
10 costs -- Connecticut pays not only their 27 percent share
11 of the regional costs, but they pay 100 percent of the
12 localized costs. Connecticut's ratepayers will be paying
13 that part and the other states -- everyone in the other
14 states in New England would pay none of it.

15 MR. VICTOR CIVIE: But in addition to that
16 as you said, the 73 percent has to be funded as well.
17 And so all of New England is paying for that other 73
18 percent.

19 MR. CARBERRY: Oh -- so if the -- let's
20 take an example where the whole project was regionalized
21 --

22 MR. VICTOR CIVIE: Mmm-hmm --

23 MR. CARBERRY: -- alright -- yes,
24 Connecticut ratepayers would pay 27 percent --

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1 MR. VICTOR CIVIE: Mmm-hmm --

2 MR. CARBERRY: -- and ratepayers in the
3 other states are paying all of the rest, the other 73
4 percent --

5 MR. VICTOR CIVIE: Mmm-hmm --

6 MR. CARBERRY: -- likewise if Maine builds
7 a project, their ratepayers pay approximately nine
8 percent, and I don't know if that figure has changed
9 recently --

10 MR. VICTOR CIVIE: Mmm-hmm --

11 MR. CARBERRY: -- and the rest of New
12 England is paying the remaining 81 percent. That's what
13 regionalized means. We're -- it's a New England sharing
14 of costs of transmission that's built for reliability
15 projects.

16 MR. VICTOR CIVIE: Right. So the
17 taxpayers then -- or the ratepayers are paying first of
18 all the 27 percent. And then they're paying something
19 extra to contribute to that 73 percent?

20 A VOICE: No --

21 MR. TAIT: Can -- can somebody -- this is
22 just going nowhere because I don't think Mr. Civie
23 understands the problem. Can somebody lay it out
24 clearly?

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1 CHAIRMAN STEIN: And Dr. Bell also wants
2 to try to help out.

3 MR. TAIT: I don't want to try to help
4 out, but this is going nowhere.

5 MR. VICTOR CIVIE: Alright, so I -- I
6 guess my question is then that 73 percent, where does
7 that money come from? How does that extra 73 percent get
8 paid?

9 A VOICE: The rest of New England --

10 A VOICE: Everybody --

11 MR. VICTOR CIVIE: Right -- well -- and
12 that's what I said --

13 CHAIRMAN STEIN: It's been answered --

14 MR. VICTOR CIVIE: -- but he's saying no,
15 including Connecticut --

16 MR. CASE: Connecticut's portion is the --
17 is the 27 percent --

18 A VOICE: (Indiscernible) --

19 CHAIRMAN STEIN: Of the hundred percent,
20 the whole pie, Connecticut pays 27 percent, and the rest
21 pay the other -- no?

22 A VOICE: (Indiscernible) --

23 MR. VICTOR CIVIE: Right -- no, I
24 understand that, but then -- then we still have that 73

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1 percent --

2 A VOICE: No, we don't --

3 A VOICE: Yes, you do --

4 A VOICE: (Indiscernible) --

5 MR. VICTOR CIVIE: Right, all the other --

6 A VOICE: (Indiscernible) --

7 (multiple voices in background, mics not

8 turned on, indiscernible)

9 MR. VICTOR CIVIE: Right -- okay --

10 A VOICE: (Indiscernible) --

11 COURT REPORTER: Microphone --

12 MR. VICTOR CIVIE: Are we all set or can

13 we --

14 MR. MURPHY: The 27 percent paid by

15 Connecticut is 27 percent of the 100 percent of the

16 project that is regionalized. Maine pays 9 percent of

17 that --

18 MR. VICTOR CIVIE: I understand that.

19 MR. MURPHY: So Connecticut effectively

20 pays -- its ratepayers pay 27 percent of this project if

21 approved total costs that's regionalized --

22 MR. VICTOR CIVIE: No, I -- and I

23 understand that --

24 MR. MURPHY: -- it's not 27 and then

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1 sharing in the other 73.

2 MR. VICTOR CIVIE: That's not -- alright -
3 - and I understand that also --

4 MR. MURPHY: Okay --

5 MR. VICTOR CIVIE: -- but that's not the
6 point I'm trying to make, but in the interest of time,
7 I'll move on --

8 MR. CARBERRY: Let me -- let me just try
9 to use a simple example. First of all, the transmission
10 rate --

11 MR. FITZGERALD: He's moving on. There's
12 no question pending.

13 MR. VICTOR CIVIE: Alright. In regards to
14 your experience as far as regionalization goes, has there
15 been a time where CL&P predicted non-regionalization or
16 regionalization and CL&P was wrong?

17 MR. CARBERRY: Let me understand your
18 question. Have we predicted in a proceeding like this
19 that certain costs would be localized?

20 MR. VICTOR CIVIE: Yes, or regionalized,
21 and that turned out to be --

22 MR. CARBERRY: And that turned out to be
23 wrong?

24 MR. VICTOR CIVIE: Correct.

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1 MR. CARBERRY: I don't know how to answer
2 that. No one -- in the Bethel/Norwalk case we really
3 didn't have experience yet with the transmission line
4 cost allocation process. There really wasn't a precedent
5 set yet on underground. We -- certainly when we went
6 into the transmission cost allocation asked for 100
7 percent regionalization, and we did not get that, alright
8 --

9 MR. VICTOR CIVIE: Mmm-hmm --

10 MR. CARBERRY: -- so I don't recall
11 whether in the Connecticut Siting Council proceeding we
12 made a prediction as to whether we'd be successful or
13 not. But based on that precedent, I think every time
14 we've been in a siting proceeding since, we've said that
15 our expectation about regionalization and localization
16 would be matching previous precedents.

17 MR. VICTOR CIVIE: Alright. Back to the
18 Middletown/Norwalk Project then, I believe only five
19 percent of that was not eligible for regionalization?

20 MR. CARBERRY: I forget the exact total,
21 but there was some amount that was localized.

22 MR. VICTOR CIVIE: If you could take a
23 look at Question 5 of my interrogatories, No. 1, what you
24 have listed there was five percent.

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1 MR. CARBERRY: Which set of
2 interrogatories?

3 MR. VICTOR CIVIE: The first set.

4 CHAIRMAN STEIN: Could we -- we have a
5 couple of -- Senator Murphy.

6 MR. MURPHY: My suggestion really is on
7 regionalization and what's considered gold plating, if
8 ISO appears in this thing, you can ask them those
9 questions. You'll probably get, you know, a definitive
10 answer from them.

11 MR. VICTOR CIVIE: I'll wrap it up in two
12 minutes.

13 MR. MURPHY: Thank you.

14 MR. CARBERRY: Your question on No. 5
15 again was?

16 MR. VICTOR CIVIE: Question 5,
17 Interrogatory 1, the Middletown/Norwalk Project, five
18 percent was non-regionalized.

19 MR. CARBERRY: Five percent. Yes, that's
20 what it says.

21 MR. VICTOR CIVIE: Alright. And there was
22 a very large underground project in the
23 Middletown/Norwalk, correct?

24 MR. CARBERRY: Yes.

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1 MR. VICTOR CIVIE: One of the largest. So
2 if that was regionalized, why wouldn't this one be
3 regionalized?

4 MR. CARBERRY: That was regionalized
5 because they compared it to other feasible and practical
6 alternatives and found that in the portion of the project
7 where the line was built underground, that for the most
8 part there were not feasible and practical alternatives
9 to doing so. There was not adequate right-of-way
10 available and the acquisition of sufficient right-of-way
11 to build the overhead line would have been -- or made
12 that project more expensive, or at least as expensive as
13 the underground alternative. I don't think that was true
14 for a hundred percent of the underground route, subject
15 to check. I think if you read the decision, some portion
16 of the project they -- they deemed could have been built
17 overhead and they regionalized -- excuse me -- they
18 localized a small portion of the underground. But that's
19 an example of just comparing costs. If you built the
20 more expensive one than you could have, they're going to
21 localize the difference. In Middletown/Norwalk's case
22 that was a relatively small difference for what they did
23 for underground. To the contrary in Bethel/Norwalk's
24 case there was -- they deemed it to be practical and

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1 feasible to build the entire project overhead. And
2 because any of it was built underground, all of that
3 contributed to localized costs. A more substantial
4 percentage in that case.

5 MR. VICTOR CIVIE: Mmm-hmm.

6 MR. CARBERRY: When do those comparisons
7 to this case here, right away there's plenty wide enough
8 to build an overhead line. It's quite clear that any
9 additional cost spent to underground a line when it's
10 very practical and feasible to build it overhead would be
11 localized.

12 MR. VICTOR CIVIE: When -- moving on now -
13 - I promised I'd wrap this up, so just one more question
14 in regards to the environment. In the application
15 identified are serious risks to native birds,
16 specifically referencing transmission lines with blinking
17 lights for aircraft warning purposes. Miss Mango, are
18 you familiar with that section? Volume 4, page 15.

19 MS. MANGO: I would need to take a look at
20 -- it's Volume 4?

21 MR. VICTOR CIVIE: Mmm-hmm. Page 15.

22 MS. MANGO: Let me just get the reference
23 -- (pause) -- so you're in Volume 4, the environmental
24 volume. Are you in Exhibit 1, which is the Green Urn

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1 Report or what --

2 MR. VICTOR CIVIE: It references the
3 Connecticut State -- well, the Connecticut State of Birds
4 Report 2007. It's an Audubon reference.

5 MR. FITZGERALD: Do you have a copy of the
6 page in front of you?

7 MR. VICTOR CIVIE: I don't have a copy of
8 the page. I just have a copy of the quote from the page.

9 MS. MANGO: Yes, this -- this part of the
10 breeding bird inventory is summarizing a Connecticut
11 State of Birds Report from 2007, which was I think
12 published by the -- published by the Audubon Society.
13 And each year they do a different analysis of things that
14 are important to preserving native birds. And in 2006
15 they focused on habitat lost. And then in 2007 they
16 describe secondary effects, like glass strikes, cats,
17 interference with tall structures. And they do cite cell
18 towers and transmission lines with blinking lights. And
19 then they focus on conservation strategies for six
20 species that were in decline.

21 MR. VICTOR CIVIE: Would CL&P's position
22 be then -- well does CL&P agree with the serious risk to
23 native birds and again blinking lights for aircraft
24 warning?

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1 MR. CASE: I'd actually just clarify that
2 the FAA determinations in these areas were for steady
3 state low intensity lighting and not blinking lights.

4 MR. VICTOR CIVIE: Alright. But in
5 regards to blinking lights then, CL&P does not promote
6 those for this particular project, correct?

7 MR. CASE: We would -- we would do
8 whatever the FAA directs us, but right now they're
9 telling us to put in steady state low intensity blinking
10 - or low intensity steady state lights.

11 MR. VICTOR CIVIE: Okay.

12 (pause)

13 MR. VICTOR CIVIE: Alright. Just one more
14 question. In regards to bird strikes from transmission
15 lines and lights in general, it would be safer if the
16 transmission lines were put under ground than over ground
17 for birds?

18 MS. MANGO: Well I'm not sure that we
19 could totally say that. We don't have much trouble in
20 the northeast with the types of bird strikes that you
21 have issues with out west where the transmission towers
22 are often the tallest point and you have a lot of raptors
23 with very wide wing spans using them as perches and ruse
24 for hunting. I think that, you know, the Audubon -- the

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1 Connecticut Audubon has actually come out in favor of
2 this particular --

3 MR. TAIT: Excuse -- excuse me. I thought
4 the question was if it was buried underground would you
5 have bird strikes.

6 MS. MANGO: Well I guess -- I'm not sure
7 that we have a problem with bird strikes is what I'm
8 saying --

9 MR. TAIT: That wasn't the question. The
10 question was --

11 MS. MANGO: Alright. Then I guess the
12 answer is no, we don't have a problem with bird strikes.

13 MR. TAIT: Thank you.

14 MR. CARBERRY: Except that the
15 transmission stations are aboveground.

16 MS. MANGO: Right.

17 MR. VICTOR CIVIE: Alright. Thank you.

18 MR. RICHARD CIVIE: This is Richard Civie.
19 Are you saying that bird strikes don't happen with
20 electric transmission lines?

21 MS. MANGO: I'm not saying they don't
22 happen at all --

23 MR. RICHARD CIVIE: Okay --

24 MS. MANGO: -- I'm saying that in the

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1 Northeast we don't have as much of a problem as they do
2 out west with overhead lines --

3 MR. RICHARD CIVIE: Okay --

4 MS. MANGO: -- but overhead -- it's an
5 overhead structure issue. For example, you know, the
6 wind towers have a big problem with bird strikes and
7 killing bats. We don't have that kind of issue as I
8 understand it from the CL&P system.

9 MR. RICHARD CIVIE: Okay. No more
10 questions.

11 CHAIRMAN STEIN: Thank you. This
12 concludes today's evidentiary hearing. As I mentioned
13 before, the Thursday hearing has been postponed. And the
14 next evidentiary hearing dates have been scheduled for
15 Tuesday, July 31st this year, and also Thursday, August
16 2nd of this year.

17 The Council further directs that all
18 testimony and exhibits be prefiled with the Council by
19 all parties and intervenors by July 17th of this year.

20 Thank you all for your participation and
21 please drive home safely.

22

23 (Whereupon, the hearing adjourned at 3:08
24 p.m.)

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