



Transcript of the Hearing of

Date: February 10, 2015

Volume: 4

Case: SITING COUNCIL - DOCKET 192B

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STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Docket No. 192B

CPV Towantic, LLC, Motion to Reopen and
Modify the June 23, 1999 Certificate of
Environmental Compatibility and Public Need
Based on Changed Conditions Pursuant to
Connecticut General Statutes §4-181a(b) for
the Construction, Maintenance and Operation
of a 785 MW Dual-Fuel Combine Cycle Electric
Generating Facility Located North of the
Prokop Road and Towantic Hill Road
Intersection in the Town of Oxford,
Connecticut

Continued Public Hearing held at the
Connecticut Siting Council, 10 Franklin
Square, New Britain, Connecticut, Tuesday,
February 10, 2015, beginning at 11:00 a.m.

H e l d B e f o r e :

SENATOR JAMES J. MURPHY,
Vice Chairman

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1 **A p p e a r a n c e s:**
2 **Council Members:**
3 DR. BARBARA C. BELL
4 ROBERT HANNON, DEEP Designee
5 PHILIP T. ASHTON
6 DR. MICHAEL W. KLEMENS
7 DAVID LYNCH
8
9 **Council Staff:**
10 MELANIE BACHMAN, ESQ.
11 Executive Director and
12 Staff Attorney
13
14 MICHAEL PERRONE,
15 Siting Analyst
16
17 **For CPV Towantic, LLC:**
18 BROWN RUDNICK, LLP
19 185 Asylum Street
20 Hartford, Connecticut 06103
21 BY: PHILIP M. SMALL, ESQ.
22 FRANCA L. DeROSA, ESQ.
23
24
25

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1 **A p p e a r a n c e s (Cont'd.):**
2 **For The Town of Middlebury:**
3 LAW FIRM OF STEPHEN L. SAVARESE
4 103 South Main Street
5 Middlebury, Connecticut 06470
6 BY: STEPHEN SAVARESE, ESQ.
7
8 **Also present for the Town of**
9 **Middlebury:**
10 RAYMOND PIETRORAZIO
11
12 **For the Connecticut Light and Power**
13 **Company:**
14 NORTHEAST UTILITIES SERVICE
15 COMPANY
16 107 Selden Street
17 Berlin, Connecticut 06037
18 BY: JEFFREY D. COCHRAN, ESQ.
19
20 **For the Town of Oxford:**
21 CONDON & SAVITT, PC
22 223 Wakelee Avenue
23 Ansonia, Connecticut 06401
24 BY: KEVIN CONDON, ESQ.
25

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1 **A p p e a r a n c e s (Cont'd.):**
2 **For Greenfields, LLC and Marian Larkin:**
3 CAPPALLI & HILL, LLC
4 325 Highland Avenue
5 Cheshire, Connecticut 06410
6 BY: EDWARD S. HILL, ESQ.
7
8 **Also present:**
9 LEN DEJONG,
10 Pomperaug River Watershed Coalition
11
12 KEVIN ZAK,
13 Naugatuck River Revival Group
14
15 EDWARD EDELSON,
16 Town of Southbury
17
18 JEFF RUHOLFF,
19 Naugatuck Valley Audubon Society
20
21 WAYNE McCORMACK,
22 Naugatuck Resident
23
24 KATE TRUINI,
25 Westover School

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1 **THE VICE CHAIRMAN:** Ladies and
2 gentlemen, I'd like to call to order this
3 Tuesday, February the 10, 2015, this meeting
4 of the Connecticut Siting Council. My name
5 is Jerry Murphy. I'm Vice Chairman of the
6 Siting Council, and I'm here today in the
7 absence of our Chairman.
8 This hearing is held pursuant
9 to the provisions of Title 16 of the
10 Connecticut General Statutes and of the
11 Uniform Administrative Procedure Act upon a
12 motion to reopen the final decision on the
13 Certificate of Environmental Compatibility
14 and Public Need held by CPV Towantic, LLC,
15 for the construction, maintenance and
16 operation of a 785 megawatt dual-fuel
17 combined cycle electric generating facility
18 located north of the Prokop Road and Towantic
19 Hill Road intersection the Town of Oxford,
20 Connecticut.
21 On November 13, 2014, the
22 Council, pursuant to a request filed by CPV
23 Towantic, LLC, and the provisions of
24 Connecticut General Statutes Section
25 4-181a(b), reopened the final decision we

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1 rendered in this docket.
2 On June 23, 1999, the Council
3 considered and approved granting a
4 certificate to CPV Towantic, LLC's
5 predecessor for the construction, maintenance
6 and operation of a 512 megawatt natural
7 gas-fired combined cycle facility located
8 north of the Prokop Road and Towantic Hill
9 Road intersection in the Town of Oxford,
10 Connecticut. On March the 1st, 2001, the
11 Council considered and approved final site
12 plans for this facility. The certificate for
13 this facility is scheduled to expire June the
14 1st, 2016.
15 A verbatim transcript will be
16 made of this hearing and deposited with the
17 town clerk's office in the Oxford and
18 Middlebury Town Halls for the convenience of
19 the public.
20 We will proceed in accordance
21 with the prepared agenda, copies of which are
22 available here.
23 And just so, before we start,
24 we understand the wavelength for today, it's
25 basically as of the last hearing, which was

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1 held here. We will break for lunch at
2 approximately one o'clock, and that break
3 will be for 45 minutes. And 45 minutes will
4 be the limit of the duration of that, and we
5 will come back and we will proceed and go no
6 later than five o'clock. And depending how
7 things are working, we may leave somewhat
8 earlier than five because of the weather
9 conditions and traffic, but we'll play that
10 by ear. But initially we'll be here until
11 approximately one for the lunch break.
12 First off, the Council
13 received a joint request from Raymond
14 Pietrorazio and the Town of Middlebury for
15 the Council to extend the deadline for public
16 hearings and submission of testimony until 90
17 days following the conclusion of review by
18 DEEP and FAA, received January 16, 2015.
19 Before the Council takes this
20 up, I would ask legal counsel and acting
21 executive director to comment on this matter.
22 MS. BACHMAN: Thank you,
23 Mr. Vice Chairman.
24 As we determined in the last
25 hearing on this matter on January 29th, we

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1 did have a few other requests for extensions.
2 And we had granted a 30-day extension to the
3 requesting entities to March 3rd for
4 submission of prefiled testimony and
5 responses to any interrogatories. That
6 extension was meant to apply across the board
7 to all parties and intervenors, including the
8 certificate holder. We also have a pending
9 request from the Naugatuck Valley Audubon
10 Society for a 30-day extension.
11 So, to make it clear, and we
12 will follow up with a memo tomorrow after the
13 hearing, an extension for 30 days is granted
14 to all parties and intervenors to submit
15 interrogatories to the certificate holder or
16 any other party or intervenor on or before
17 February 24th, and that responses to the
18 interrogatories and any additional prefile
19 testimony by any party or intervenor is due
20 on or before March 3rd.
21 THE VICE CHAIRMAN: Thank you,
22 Attorney Bachman.
23 What's the Council's pleasure
24 on this request?
25 MR. ASHTON: Move approval of

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1 the extension.
2 DR. BELL: Second.
3 THE VICE CHAIRMAN:
4 Discussion?
5 DR. KLEMENS: The only piece
6 of discussion I have on it is, you know, I
7 have asked for some biological data, and that
8 biological data cannot be collected before
9 March 3rd. I mean, so that will effectively
10 preclude the ability to collect any kind of
11 biological, particularly on vernal pool and
12 vernal pool use, this spring. I'm happy to
13 go along with the Council, just as long as
14 they're aware that that basically eliminates
15 that potential.
16 THE VICE CHAIRMAN: Okay.
17 Phil, was your motion to
18 approve their 90-day or what was outlined
19 by --
20 MR. ASHTON: What was outlined
21 by the acting director.
22 THE VICE CHAIRMAN: Well, the
23 question before us is on the Town of
24 Middlebury and Mr. Pietrorazio's request.
25 MR. ASHTON: I would embrace

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1 that in the spirit of what the director said.
2 THE VICE CHAIRMAN: Which
3 means that would be denied because we're
4 giving everybody 30 days.
5 MR. ASHTON: Right. Right.
6 Otherwise, this thing is going to keep on
7 going on and on like waves breaking on the
8 shore.
9 THE VICE CHAIRMAN: Okay. So
10 the motion before us, who seconded it?
11 DR. BELL: I did.
12 THE VICE CHAIRMAN: As I
13 understand it, the motion before us is to
14 deny the request for the 90 days by these
15 co-applicants; is that correct?
16 MR. ASHTON: And approve the
17 30-day, as the director outlined.
18 THE VICE CHAIRMAN: We'll get
19 to that.
20 MR. ASHTON: Okay. Do you
21 want to take it in two pieces?
22 THE VICE CHAIRMAN: Yes.
23 MR. ASHTON: All right. I'll
24 rephrase my motion to deny the request for
25 extensions.

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1 THE VICE CHAIRMAN: Okay.
2 We're only acting on this one first.
3 MR. ASHTON: Okay.
4 THE VICE CHAIRMAN: Second?
5 DR. BELL: Yes.
6 THE VICE CHAIRMAN: Discussion
7 on that?
8 DR. KLEMENS: My discussion,
9 as I said, is that if we don't allow anything
10 after that -- but that's just we won't get
11 that data that I've asked for and asked the
12 Applicant for -- we do that knowing that.
13 MR. ASHTON: Yes.
14 DR. KLEMENS: We feel we can
15 make the decision without that data.
16 THE VICE CHAIRMAN: Further
17 discussion on the motion to deny the request
18 for 90 days?
19 All those on the Council
20 signify by saying aye.
21 MR. ASHTON: Aye.
22 DR. BELL: Aye.
23 MS. BACHMAN: Aye.
24 MR. HANNON: Aye.
25 THE VICE CHAIRMAN: Those

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1 opposed?
2 (No response.)
3 THE VICE CHAIRMAN: The second
4 item we have is a request from the Naugatuck
5 Valley Audubon Society for an extension to
6 file evidence and testimony received February
7 5th, and that's for 30 days.
8 MR. ASHTON: I move the
9 approval.
10 THE VICE CHAIRMAN: For 30
11 days?
12 MR. ASHTON: Yes.
13 DR. BELL: And I'll second.
14 THE VICE CHAIRMAN: Any
15 discussion on that?
16 DR. KLEMENS: Is it the 30-day
17 that's tracking the other ones or a different
18 30-day?
19 MS. BACHMAN: That's 30 day to
20 March 3rd.
21 DR. KLEMENS: Okay. So it's
22 not -- okay. It's for the same one as
23 everybody else?
24 MS. BACHMAN: Correct.
25 DR. KLEMENS: Thank you for

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1 the clarification.
2 THE VICE CHAIRMAN: Further
3 discussion?
4 All in favor will signify by
5 saying aye.
6 MR. ASHTON: Aye.
7 DR. BELL: Aye.
8 THE VICE CHAIRMAN: Opposed?
9 (No response.)
10 THE VICE CHAIRMAN: Motion to
11 grant for 30 days for the Naugatuck Valley
12 Audubon Society is granted.
13 Phil, did you want to make a
14 motion in line with what our executive
15 director outlined for 30 days?
16 MR. ASHTON: Yes.
17 Mr. Chairman, I would like to
18 make that motion, the 30-day extension, which
19 will embrace all the other that have been
20 requested.
21 THE VICE CHAIRMAN: Is there a
22 second to that?
23 DR. BELL: Yes, I'll second
24 that.
25 THE VICE CHAIRMAN: Second by

1 Dr. Bell.
2 Any discussion?
3 Your comments again, I assume,
4 would be included?
5 DR. KLEMENS: Yes --
6 THE VICE CHAIRMAN: All those
7 in favor will signify by saying aye.
8 MR. ASHTON: Aye.
9 DR. BELL: Aye.
10 MR. HANNON: Aye.
11 MS. BACHMAN: Aye.
12 THE VICE CHAIRMAN: Opposed?
13 (No response.)
14 THE VICE CHAIRMAN: We will
15 return to the appearance of the certificate
16 holder.
17 Do you have additional
18 material?
19 MR. SMALL: We do. First of
20 all, I'm pleased to announce that
21 Mr. Gustafson is with us this time, and I'd
22 like to have him sworn in.
23
24
25

1 DEAN GUSTAFSON,
2 called as a witness, being first duly
3 sworn by Ms. Bachman, was examined and
4 testified on his oath as follows:
5 FREDERICK SELLARS,
6 LYNN GRESOCK,
7 ANDREW BAZINET,
8 JON DONOVAN,
9 DANIELLE POWERS,
10 TANYA BODELL,
11 having been previously duly sworn, were
12 examined and testified further on their
13 oaths as follows:
14 MR. SMALL: Mr. Gustafson,
15 would you introduce yourself to the Council,
16 full name, title, your place of employment?
17 THE WITNESS (Gustafson): My
18 name is Dean Gustafson. I'm a senior wetland
19 scientist, professional soil scientist, with
20 All-Points Technology Corp.
21 MR. SMALL: And
22 Mr. Gustafson's resume is in the prior
23 filing.
24 Mr. Chairman, we have two
25 additional exhibits to provide. They've been

1 premarked 11 and 12 on the hearing agenda.
2 Eleven is the -- I'm sorry, my apologies, 12
3 and 13. Twelve is the CPV Towantic's
4 responses to Council interrogatories, and 13
5 is CPV Towantic's second late-filed exhibits.
6 Each member of the panel is
7 listed as a witness for one or more of these
8 interrogatory responses, so I'm asking the
9 entire panel were these responses prepared by
10 you or under your direction?
11 THE WITNESS (Sellars): Yes.
12 THE WITNESS (Gresock): Yes.
13 THE WITNESS (Bazinet): Yes.
14 THE WITNESS (Donovan): Yes.
15 MR. SMALL: Are there any
16 changes or corrections? Ms. Gresock?
17 THE WITNESS (Gresock): The
18 figure that was included in the response for
19 Interrogatory CSC-14 should also have been
20 attached in the response for the late-filed
21 Exhibit 2H.
22 MR. SMALL: Are there any
23 other changes or corrections? With those, do
24 you adopt the late-filed exhibits and the
25 interrogatory responses in Exhibits 12 and 13

1 as your testimony here today.
2 THE WITNESS (Sellars): Yes.
3 THE WITNESS (Gresock): Yes.
4 THE WITNESS (Bazinet): Yes.
5 THE WITNESS (Donovan): Yes.
6 MR. SMALL: Thank you. I
7 believe the witnesses are available for
8 additional cross-examination.
9 THE VICE CHAIRMAN: Is there
10 any objection to the documents being
11 admitted?
12 (No response.)
13 THE VICE CHAIRMAN: Hearing
14 none, they're so admitted.
15 (Exhibit II-B-12 and
16 Exhibit II-B-13: Received in evidence -
17 described in index.)
18 THE VICE CHAIRMAN: Moving to
19 cross-examination, Jay Halpern?
20 (No response.)
21 THE VICE CHAIRMAN: I believe
22 last time the Town of Middlebury, did you
23 conclude for your purposes at this stage?
24 MR. SAVARESE: Chairman, I
25 thought that with Mr. Gustafson here, it

1 would return to the Council Members first
2 doing the cross-examination -- Dr. Klemens
3 and Dr. Bell may have had questions -- and
4 that this witness, having been absent from
5 the prior two proceedings, I believe the
6 protocol dictates that the Council Members go
7 first.

8 THE VICE CHAIRMAN: Our
9 Executive Director tells me that the memo
10 that was sent out indicated to the contrary,
11 that we were going through the Intervenors.
12 I was not -- this is not your last chance
13 because there will be more information coming
14 in. And my recollection, when you finished
15 at our last hearing, you indicated that you
16 were reserving questions for later on.

17 MR. SAVARESE: Correct, but --

18 THE VICE CHAIRMAN: And I'm
19 asking you because you're next on the list.

20 MR. SAVARESE: I understand
21 that, your Honor. I was expecting to sit
22 through the cross-examination by Dr. Bell and
23 Dr. Klemens.

24 THE VICE CHAIRMAN: Well, but
25 we will get to them, hopefully, after. You

1 MR. SMALL: And do you adopt
2 those as your testimony?

3 THE WITNESS (Gustafson): I
4 do.

5 MR. SMALL: Thank you. So
6 those are already part of the record, but I
7 just wanted to make sure we closed that loop.

8 THE VICE CHAIRMAN: Any
9 objection to the admission of those
10 interrogatory responses which Mr. Gustafson
11 was responsible for?

12 Hearing none, they're so
13 admitted.

14 MR. SAVARESE: Further, for
15 the record, Mr. Gustafson still has open
16 questions, a granted extension of time to
17 February 16th for certain of the wetland
18 questions to be answered. We're still
19 waiting to see --

20 THE VICE CHAIRMAN: That's why
21 we can't cut anybody off being final because
22 we don't have everything before us to
23 cross-examine.

24 MR. SAVARESE: Exactly.

25 THE VICE CHAIRMAN: That's why

1 can listen to that, and we will get to you at
2 a future date.

3 MR. SAVARESE: Well, then I'm
4 going to pass at this time.

5 THE VICE CHAIRMAN: All right.

6 MR. SMALL: Mr. Chairman,
7 Mr. Savarese's comments reminded me of
8 something. I need to have Mr. Gustafson
9 adopt the interrogatory responses that he
10 filed when he was not available to adopt
11 them.

12 Mr. Gustafson, there were a
13 number of interrogatory responses, both to
14 the Council and to parties and intervenors,
15 where you were the responsible witness; is
16 that correct?

17 THE WITNESS (Gustafson):
18 That's correct.

19 MR. SMALL: Were those
20 prepared by you or under your direction?

21 THE WITNESS (Gustafson): They
22 were.

23 MR. SMALL: Do you have any
24 changes or corrections to any of those?

25 THE WITNESS (Gustafson): No.

1 you're really waiting not too much because
2 you'll get a crack at the apple later on.

3 MR. SAVARESE: We're waiting
4 to hear the evidence.

5 THE VICE CHAIRMAN:
6 Connecticut Light and Power?

7 MR. COCHRAN: We have no
8 questions.

9 THE VICE CHAIRMAN: Mr. P.,
10 over there, do you have any questions at this
11 time or yesterday?

12 RAYMOND PIETRORAZIO: Yes, I
13 do.

14 THE VICE CHAIRMAN: Go ahead.

15 CROSS-EXAMINATION

16 MR. PIETRORAZIO: Good
17 morning. Mr. Chairman, I have 14 questions
18 for CPV this morning, and they have to do
19 with largely with the stacks. And question
20 number one would be: Is buoyancy the
21 dominant factor for plume rise above stacks?

22 THE WITNESS (Sellars):
23 Buoyancy is among the factors that affects
24 the plume rise. Plume rise is dictated by
25 the mass flow rate and the temperature, as

1 well as the velocity, but the flow rate and
2 temperature are the dominant terms.

3 MR. PIETRORAZIO: Does the
4 temperature -- is one of the ingredients to
5 the buoyancy factor?

6 THE WITNESS (Sellars): That's
7 correct, the flow rates and the temperature.

8 MR. PIETRORAZIO: So would you
9 say that the buoyancy is the dominant factor?

10 THE WITNESS (Sellars): I'd
11 say if you looked at the combination of mass
12 flow rate and temperature, then those are the
13 factors, correct.

14 MR. PIETRORAZIO: And what is
15 the difference in exit stack temperature
16 between this plant, the new 785 plant, and
17 the previous 512 megawatt plant, the
18 difference in exit stack temperature?

19 THE WITNESS (Gresock): We
20 don't have all of the information about the
21 previous plant scenarios, but as we reported
22 last time, the 2012 MITRE model that
23 addressed the previous configuration had an
24 exhaust exit temperature of 201 degrees
25 Fahrenheit, and our current project would

1 most instances, the taller stack would allow
2 for additional dispersion before the plume
3 would reach ground level, correct.

4 MR. PIETRORAZIO: Question six
5 is: The optimum height of the previous stack
6 design for the considerably smaller 512
7 megawatt plant, the optimum design was 160
8 feet. Correct?

9 THE WITNESS (Sellars): I
10 didn't do the modeling for the prior design,
11 but in reviewing the record, they looked at a
12 number of different scenarios, including 160
13 feet and as low as 146 feet, and I believe
14 there was a 10 or 12 percent difference in
15 those two scenarios in terms of ground level
16 concentration.

17 MR. PIETRORAZIO: But you're
18 familiar with the finding of fact from the
19 1999 --

20 THE WITNESS (Sellars): I am.

21 MR. PIETRORAZIO: And isn't it
22 true that the finding of fact stated that the
23 optimum height of the chimney was 160 feet?

24 THE WITNESS (Sellars): The
25 development and management plan that was

1 have a comparable exhaust exit temperature of
2 183.29 degrees Fahrenheit.

3 MR. PIETRORAZIO: And those
4 are for natural gas?

5 THE WITNESS (Gresock): Those
6 are natural gas, yes.

7 MR. PIETRORAZIO: Question
8 three would be: This would make the exit
9 stack temperature closer to the ambient
10 temperature than the previous 512 megawatt
11 plant. Correct?

12 THE WITNESS (Gresock): It is
13 a lower temperature, yes.

14 MR. PIETRORAZIO: And question
15 number four: Is a plume called buoyant
16 because of the difference in temperature
17 between the hotter plume and the ambient air
18 temperature?

19 THE WITNESS (Sellars): Yes,
20 sir.

21 MR. PIETRORAZIO: Question
22 number five: Is it correct to say the higher
23 the stack, the better the dispersion of
24 pollutants?

25 THE WITNESS (Sellars): In

1 filed subsequent to the finding of facts
2 included additional modeling analyses that
3 reflected the 150-foot stack.

4 MR. PIETRORAZIO: Well, this
5 is an important question. Forgive me. What
6 I'm driving at here is it was termed the
7 optimum height, obviously the most favorable
8 height, and I'm asking if you agree with that
9 description of 160 feet?

10 THE WITNESS (Sellars): Again,
11 I was not involved in the projects in 1999.
12 I know from the modeling that we've done for
13 the proposed configuration of the project
14 right now, stack height of 150 feet results
15 in compliance with all ambient air quality
16 standards and, in fact, is a small percentage
17 of that. So the optimal height really
18 balances a number of factors, not just
19 dispersion, but also, as you're well aware,
20 interference with aircraft navigation and FAA
21 approval, as well as the visibility of the
22 stack from the locations. So, ideally, when
23 one selects a height of the stack as optimal,
24 it balances a number of those factors
25 together.

1 MR. PIETRORAZIO: Thank you.
2 It takes me to my next question. The stack
3 height, 160 feet, was reduced to 150 feet
4 because of concerns for aviation. Correct?
5 THE WITNESS (Sellars): Yes.
6 Again, I was not involved in the project at
7 that time, so given that the FAA approval,
8 the most current one, was for 150 feet, it's
9 fair to assume that that was a factor, yes.
10 MR. PIETRORAZIO: Will a stack
11 having a wider -- I'm sorry. Question number
12 eight: Will a stack having a wider diameter
13 but the same height have a reduction of exit
14 velocity assuming the input is the same?
15 THE WITNESS (Sellars): Yes.
16 MR. PIETRORAZIO: Question
17 Number 9: Would this reduction of exit
18 velocity improve or diminish plume
19 dispersion?
20 THE WITNESS (Sellars):
21 Additional exit velocity would enhance plume
22 dispersion, but again, as a buoyant stack, it
23 is a less important factor than the mass flow
24 rate and temperature would be.
25 MR. PIETRORAZIO: So the

1 converse of your answer would be -- the
2 question was the reduction. So the reduction
3 would -- of the exit velocity would diminish
4 plume dispersion. Correct?
5 THE WITNESS (Donovan): But
6 the input is not the same. That's the key
7 factor. The stack diameter has increased,
8 but the input has changed because the
9 exit velocity --
10 MR. PIETRORAZIO: That depends
11 on the firing rate of the equipment at any
12 particular time?
13 THE WITNESS (Donovan):
14 Correct. But with the current configuration,
15 the proposed configuration, the exhaust flow
16 has increased, so the velocity isn't
17 decreasing. Correct?
18 THE WITNESS (Gresock): No.
19 THE WITNESS (Sellars): The
20 velocity, I believe, for the current project
21 versus what was analyzed in 2012 for the
22 MITRE model has gone down slightly, but the
23 flow rate is, because it's a wider diameter,
24 the overall flow rate has increased.
25 MR. PIETRORAZIO: Question

1 Number 10: When a plume exits a stack and
2 then immediately falls to the ground because
3 of insufficient exit velocity, called
4 downwash, would concentrations of pollutants
5 be increased at ground level?
6 THE WITNESS (Sellars): Okay.
7 When a plume exits a stack and immediately
8 goes all the way to the ground, that would be
9 called fumigation, not downwash. Downwash
10 has a downward influence on the plume, but a
11 plume that would go all the way to the
12 ground, it would be a fumigating plume. So
13 yes, downwash does affect the dispersion.
14 MR. PIETRORAZIO: Well, stack
15 downwash and terrain downwash and building
16 downwash could all create the same effect of
17 a plume with a fair wind with that plume
18 immediately, as soon as it comes out of the
19 stack, begin to fall to the ground.
20 THE WITNESS (Sellars): The
21 plume would have less plume height with
22 downwash regardless of the cause the
23 downwash, but all of those factors are on the
24 basis of the air quality dispersion model
25 analysis that was performed. So it included

1 consideration of building and stack induced
2 downwash, as well as the influence of terrain
3 in the modeling. So all of those factors are
4 represented in our modeling analysis.
5 MR. PIETRORAZIO: Yes, but the
6 question is would the concentration of
7 pollutants be increased under those
8 conditions?
9 THE WITNESS (Sellars): If a
10 stack were -- the taller the stack relative
11 to the buildings around it, the less
12 downwash, and therefore, one would expect
13 that the concentrations with less downwash
14 would diminish.
15 MR. PIETRORAZIO: I'm sorry,
16 sir. It doesn't answer my question.
17 When you have the downwash and
18 you have a plume immediately and changing
19 course and going to the ground, does that
20 cause the pollution deposition to be greater?
21 THE WITNESS (Sellars): If you
22 have a downwash situation, the concentrations
23 would be greater, yes.
24 MR. PIETRORAZIO: Thank you.
25 THE WITNESS (Sellars): But

1 for the plume to go immediately to the ground
2 would be more than downwash. That would be
3 severe. That would be fumigation.
4 MR. PIETRORAZIO: Thank you.
5 Question 11: Would this cause deposition of
6 pollutants on the ground, on the ground
7 itself?
8 THE WITNESS (Sellars): There
9 will be deposition of pollutants on the
10 ground regardless of the amount of downwash,
11 and those are factored into, again, factored
12 into our air quality impact analysis.
13 MR. PIETRORAZIO: Thank you.
14 Question 12: If there were
15 wetlands in the area of this downwash, would
16 there be deposition of pollutants on the
17 wetlands?
18 THE WITNESS (Sellars): There
19 is deposition of pollutants everywhere,
20 including on wetlands, and that again is
21 factored into our air quality analysis, as
22 well as our soil and vegetation impact
23 analysis which examine the degree of
24 deposition as well as uptake by plants and
25 the influence on soils. So, all of those

1 factors are accounted for in our air quality
2 analysis.
3 MR. PIETRORAZIO: Question
4 Number 13: Are the effects of pollutant
5 depositions on wetlands cumulative?
6 THE WITNESS (Sellars): To the
7 extent that they're not removed by other
8 factors in the environment through like other
9 fake transport processes, it would be
10 cumulative, yes.
11 MR. PIETRORAZIO: Thank you.
12 My last question for 14: CPV
13 has submitted the expected amounts of
14 pollutant emissions measured in tons per year
15 from this plant. How many of these tons of
16 pollutants will be deposited in the wetlands
17 of Oxford and Middlebury from this plant?
18 THE WITNESS (Sellars): The
19 deposition analysis that is done for the soil
20 and vegetation, impact analysis, indicates
21 that all of the deposition rates are
22 considerably less than EPA screening criteria
23 for protection of deposition to soils and
24 vegetation uptake. So, it's all very, very
25 low levels and lower levels than what was

1 approved in the 1999 scenario.
2 MR. PIETRORAZIO: Thank you.
3 That's all I have, Mr. Chairman. Thank you.
4 THE VICE CHAIRMAN: Middlebury
5 Land Trust?
6 (No response.)
7 THE VICE CHAIRMAN: Town of
8 Oxford?
9 (No response.)
10 THE VICE CHAIRMAN: The
11 Naugatuck Valley Chapter of Trout Unlimited?
12 (No response.)
13 THE VICE CHAIRMAN: The
14 Naugatuck River Revival Group, Inc?
15 (No response.)
16 THE VICE CHAIRMAN: The
17 Pomperaug River Watershed Coalition?
18 For the Reporter, would you
19 identify yourselves?
20 LEN DeJONG: I will.
21 Mr. Chairman, members of the Council, my name
22 is Len DeJong. I'm executive director of the
23 Pomperaug River Watershed Coalition.
24 On behalf of the coalition,
25 including its board of directors, staff,

1 volunteers and supporters, I would like to
2 thank the Council for allowing our
3 participation in these proceedings.
4 As a newcomer to the Council
5 process, I would especially like to recognize
6 Attorney Bachman for the outstanding
7 administrative guidance that she has provided
8 to the coalition, but I'd also like to
9 recognize the Applicant, in particular,
10 Mr. Bazinet, who introduced the revised
11 application to the coalition and subsequently
12 met with us to discuss the information
13 developed pertaining to the facility water
14 demands. I'd also like to acknowledge the
15 Heritage Village Water Company for meeting
16 with us in what were very informative
17 discussions.
18 As a brief reintroduction, the
19 coalition is a nonprofit 501(c) organization
20 with a mission to protect the water resources
21 in the Pomperaug River Basin. Those
22 resources include public water supply and
23 river flow for aquatic health. The two are
24 indisputably linked. The coalition was a
25 party to the 1999 proceedings, and through

1 our current testimony, has attempted to
2 update the Council on our research and
3 findings and underscore the continuing issues
4 of concern. It is hoped that, in some way
5 our engagement in these proceedings will
6 serve as a helpful tool to both the Council
7 and the Applicant in determining the best
8 path forward in matters pertaining to water
9 resources.

10 With that, I would like to
11 address the following questions to the
12 applicant:

13 THE VICE CHAIRMAN:
14 Mr. DeJong, would you identify the gentleman
15 with you?

16 KEVIN ZAK: My name is Kevin
17 Zak. I'm with the Naugatuck River Revival
18 Group.

19 THE VICE CHAIRMAN: Thank you.
20 Go ahead.

21 CROSS-EXAMINATION

22 MR. DeJONG: Thank you,
23 Mr. Chairman. I may be the minority here,
24 but I have still some uncertainty regarding
25 the proposed water demand, so the first

1 the Heritage Village Water Company -- the
2 changes were made?

3 THE WITNESS (Bazinet): So,
4 the service request to Heritage Village
5 cited, during the period April 16th to
6 October 15th, the maximum of 150,000 gallons
7 per day, during other periods a maximum for
8 218,000 gallons per day, with an average
9 annual projection 66,900 gallons per day.
10 Average flows during those same periods
11 corresponding to the 150,000 gallons would be
12 77,500. During the period January 1st to
13 April 15th, 68,500, and during the period
14 October 16th to December 31st, 39,500. Those
15 are the values that were submitted on
16 November 20, 2014, and a subsequent
17 commitment letter was granted. I don't have
18 the date handy. I apologize. On December
19 23, 2014.

20 MR. DeJONG: Thank you. So
21 we'll use those numbers as the basis for
22 discussion going forward. Thank you.

23 And that leads to Question
24 Number 2: As presented in the environmental
25 overview, water demands, while using the

1 series of questions are related to the water
2 demands.

3 In the November 20, 2014,
4 water availability request to the Heritage
5 Village Water Company, which was submitted in
6 response to Pomperaug Interrogatory Number 1,
7 the estimated water demands differ from those
8 stated in Section 4.1.2.1 of the October 2014
9 environmental overview. Please explain.

10 THE WITNESS (Bazinet): So, it
11 is correct that the water amounts differ in
12 Exhibit 1 or 2 -- I'm sorry, I don't recall.

13 MR. SMALL: Exhibit 1.

14 THE WITNESS (Bazinet): --
15 Exhibit 1 from the amounts that you
16 referenced. They've been subsequently
17 updated as late-filed exhibits. Exhibit 10,
18 late-filed exhibits filed on January 22,
19 2015, references the changes to the water
20 supply, which is indicated in Question
21 Naugatuck Number 1 and 3 and attachments to
22 page 19 of the report, Exhibit 10.

23 MR. DeJONG: I don't have that
24 exhibit with me. Could you summarize the --
25 perhaps comparing it to what was submitted to

1 evaporator coolers, are stated to range from
2 141,408 to 147,168 gallons per day. I'm
3 assuming that the period of operation with
4 the evaporative coolers is between April 16th
5 and October 15th, which corresponds with the
6 dates in the submittal letter to Heritage
7 Village. Please explain why the quantity
8 requested on a daily basis is 77,500 gallons
9 per day?

10 THE WITNESS (Bazinet): So,
11 the maximum or the peak day usage, the
12 150,000 gallons a day, is intended to
13 encompass 24 hours of operation during
14 evaporative cooler operation, and that, of
15 course, varies with ambient temperature. So
16 it's -- I don't have handy whether it's a
17 linear sliding scale or not, but as
18 temperature decreases, the need for
19 evaporative cooling water also decreases, and
20 at a certain point -- I believe it's
21 approximately 60 degrees Fahrenheit -- at 60
22 degrees Fahrenheit the effectiveness of that
23 evaporative cooling goes away, so you don't
24 use any.

25 So, the 77,500 that you see is

1 reflective of average ambient temperatures
2 during those periods and expected dispatch
3 profiles by ISO New England, which would take
4 into consideration periods of nonoperation as
5 well as periods of operation.

6 MR. DeJONG: Thank you.

7 Question Number 3: How is the term "average
8 day" being used? Is the 66,900 gallons per
9 day stated as the annual average within the
10 Heritage Village Water Company letter, a true
11 average of all water demands throughout the
12 year, including when peak water demand
13 oil-fired operation is necessary?

14 THE WITNESS (Bazinet): Yes.
15 It's total annual projected water usage or
16 demand from Heritage Village divided by 365
17 days.

18 MR. DeJONG: Next question.

19 There appears to be an inconsistency -- and
20 maybe it's just my reading -- in the Towantic
21 information pertaining to the water system
22 interconnect with Connecticut Water Company.
23 In responding to Pomperaug Interrogatory
24 Number 1, the Heritage Village Water Company
25 letter to Towantic calls out the need for the

1 their system better than we do. I will point
2 out that this is an interconnect that's being
3 used to service their entire system, not just
4 the Towantic project, and it doesn't relate
5 solely to the Towantic project.

6 MR. DeJONG: Thank you.

7 Continue on with the
8 interconnect. How will Heritage Village
9 Water Company be able to offer you a
10 guarantee that the Connecticut Water Company
11 interconnect will be available to you and, as
12 you just correctly mentioned, to others post
13 the 2017 approved diversion date; if not, how
14 will required water demands be met?

15 THE WITNESS (Bazinet): So, as
16 a franchised water company, Heritage Village
17 has an obligation to serve all of its
18 customers. So whether that's via an
19 interconnect that exists with Connecticut
20 Water Company or some new source of supply,
21 it's something that they'll be faced with in
22 their obligation to serve their customer
23 base, unless that is they decide to waive
24 their franchise rights and allow a different
25 water company within a similar geographic

1 interconnect agreement with Connecticut Water
2 Company. In response to Pomperaug
3 Interrogatory Number 2, Towantic indicates
4 the interconnect agreement will not be relied
5 upon. Please explain.

6 THE WITNESS (Bazinet):

7 Question Number 2 is asking how the facility
8 will meet the 663 to 712 GPM water demand,
9 and that will not be met through interconnect
10 agreements with other facilities. We will
11 take the 218,000 gallons per day, and then
12 any water above and beyond the 218,000
13 gallons per day, which I think is roughly
14 equivalent to 150 GPM, will be supplemented
15 through on-site storage.

16 MR. DeJONG: So I need to come
17 back to that question. Is Towantic saying
18 there is a need for the Connecticut Water
19 Company interconnect?

20 THE WITNESS (Bazinet): Well,
21 I think Heritage Village is saying that.

22 MR. DeJONG: And Towantic is
23 in agreement with that?

24 THE WITNESS (Bazinet): We
25 would anticipate that Heritage Village knows

1 territory -- naturally Connecticut Water
2 comes to mind given the existing
3 interconnect -- to step in and provide
4 franchise service.

5 However, in the event that
6 that's -- in the event they are not able to
7 meet their obligations as a water utility,
8 Citing Council Interrogatory Number 30
9 recently submitted addresses of a number of
10 different alternative options that we would
11 explore in more depth to understand whether
12 or not we could use one of those sources.

13 MR. DeJONG: As a follow-up to
14 that question, would it be correct to say
15 that in the service agreement letter from
16 Heritage Village they specifically call out
17 the need for the Connecticut Water Company
18 interconnect to meet your demands?

19 THE WITNESS (Bazinet): So I
20 think the December 23rd commitment letter,
21 the fifth bullet down, pretty clearly
22 explains the commitment and the contingency
23 on the Connecticut Water interconnect to
24 serve not only CPV, but its other customers.

25 MR. DeJONG: Thank you.

1 Next question: You describe
2 water demand limits as being estimated or
3 expected. Can you discuss whether the values
4 represented are, in fact, actual limits or
5 will upward and, perhaps, downward
6 adjustments be necessary after the plant is
7 operational?

8 THE WITNESS (Bazinet): I'm
9 sorry. Can you repeat the reference at the
10 beginning or where do we say it's expected
11 versus --

12 MR. DeJONG: In the
13 environmental overview words used are
14 "estimated" and "expected" is my
15 recollection.

16 THE WITNESS (Bazinet): So the
17 maximum daily quantities that we submitted in
18 our water request to Heritage Village are not
19 expected or not -- will not be exceeded is a
20 better word to use. Expected quantities,
21 obviously, change on a daily basis on a
22 minute-by-minute basis depending on what's
23 happening at the facility at a given point in
24 time.

25 MR. DeJONG: Next question,

1 issued the permits for Heritage Village's
2 supply source. We haven't reviewed those in
3 detail to understand what those would be at
4 this point. Furthermore, we're not familiar
5 with Killingly's requirements -- Lake Road's
6 requirements, that is.

7 MR. DeJONG: That's helpful.
8 Thank you.

9 Next question, please: You've
10 stated that if the Heritage Village Water
11 Company can at any time, supply more than the
12 estimated water limits that Towantic would
13 accept the same. Please explain the basis
14 for this statement.

15 THE WITNESS (Bazinet):
16 Heritage Village has the ability to withdraw
17 up to 2.052 million gallons per day from five
18 wells located in Southbury. In addition to
19 that, they have an interconnection capacity
20 with Connecticut Water which can supply up to
21 an incremental 500,000 gallons per day. The
22 expectation, based on historical demand
23 profile for their system and when that would
24 coincide with the plant's demands, is that
25 they operate well below those permitted

1 please: How will Towantic and Heritage
2 Village Water Company manage and report on
3 actual use, and will there be a third party
4 to monitor for a compliance? And I'll give
5 you a reference. It's my understanding that
6 the Killington power facility, which is
7 supplied by the Connecticut Water Company,
8 provides the Department of Public Health,
9 State Department of Public Health, with water
10 facility reports and compliance data.

11 MR. SMALL: Just for
12 clarification, do you mean Killingly, the
13 Lake Road plant in Killingly?

14 MR. DeJONG: Yes, I do. I
15 misspoke. I apologize.

16 THE WITNESS (Bazinet): So a
17 couple of elements there. I guess the first
18 is with respect to the supply volumes I
19 presume the question is directed. We've
20 discussed with Heritage Village that they
21 would have metering equipment which would
22 have automatic shut-off valves, which were
23 triggered at our daily maximums. The
24 reporting requirements are going to be
25 dictated by the permitting entities that have

1 yields and interconnection capacities during
2 the period in which our demands are highest.

3 So, to the extent that there
4 is sufficient excess water capacity available
5 below the aggregate basis 2.552 million
6 gallons per day, Heritage Village has
7 indicated their willingness to supply that
8 water to the project.

9 MR. DeJONG: A follow-up to
10 that question. In your conversations with
11 Heritage, was there any discussion about what
12 Heritage uses as a benchmark for letting you
13 know whether or not they can supply more than
14 the estimated water limits; for example,
15 would they look at river flows when they make
16 that determination? And I'm just asking if
17 there were conversations to that effect.

18 THE WITNESS (Bazinet): I'm
19 not familiar with all of the terms of their
20 permitted withdrawal rights. I suspect that
21 they have conditions that, depending on river
22 flows or other events, that, again, I'm not
23 familiar with the specific conditions, but
24 they may have restrictions on whether or not
25 they can take up to their 2.052 million

1 gallons per day, which is permitted by the
2 state.

3 MR. DeJONG: I apologize for
4 the next question. It's a bit lengthy. The
5 Siting Council, in its opinion on page 3,
6 dated June 23, 1999, in Docket 192 stated,
7 quote, "The Council believes that this river
8 basin" -- and they're referring to the
9 Pomperaug basin -- "could be overused if not
10 carefully measured and regulated and will
11 order that Towantic Energy develop a plan to
12 use on-site water storage facility operation
13 during low flow conditions or whenever
14 determined necessary by local and/or Heritage
15 Village Water Company officials to protect
16 the water quality and quantity."

17 Please describe what actions
18 Towantic has taken to comply with this
19 statement from the Council for its current
20 application. Will Towantic provide the
21 Siting Council with a water management plan
22 that addresses stated concerns about public
23 water supply and aquatic health protection?

24 I'm happy to go back over
25 that.

1 THE WITNESS (Bazinet): The
2 tail end of the question, please.

3 MR. DeJONG: The last part of
4 the question is will Towantic provide the
5 Siting Council with a water management plan
6 that addresses stated concerns about public
7 water supply and aquatic health protection.

8 THE WITNESS (Bazinet): I
9 believe the first part of the question was
10 what steps have we taken to -- I'm sorry, can
11 you --

12 MR. DeJONG: Sure. Again,
13 it's a long question. The Council believes
14 that this river basin could be overused if
15 not carefully measured and regulated and will
16 order that Towantic Energy develop a plan to
17 use on-site water storage for facility
18 operation during low flow conditions or
19 whenever determined necessary by local and/or
20 Heritage Village Water Company officials to
21 protect water quality and quantity. Again,
22 this references back to the 1999 decision.
23 Please describe what actions Towantic has
24 taken to comply with this statement for its
25 current application?

1 THE WITNESS (Bazinet): So
2 there are a number of different things that
3 the project has done to minimize its overall
4 water consumption as a project. First off,
5 we're an air cool facility which uses
6 substantially less water than a wet cooled
7 generating facility. In addition, the 1999
8 approval was permitted with the wet surface
9 air cooler, which is a device that's used to
10 cool auxiliary equipment on the site. We're
11 now using fin-fan coolers, which uses just
12 air, so we've eliminated that supply source
13 altogether for demand point altogether.

14 Third, we incorporate
15 demineralized water to make up on all of our
16 processes, which has the net effect of
17 reducing overall consumption and discharge.

18 Lastly, the facility is
19 planned to be equipped with two water storage
20 tanks totaling 875,000 gallons each. And I
21 believe in a recent interrogatory to address
22 an interrogatory issued by the Connecticut
23 DEEP, we've examined the potential for
24 increased storage capacity as well. Those
25 haven't been submitted yet, but they will be

1 shortly.

2 Lastly, we are -- or the
3 Applicant has been and will continue to pay
4 for two gauge stations on the Nonnewaug and
5 Weekepeemee Rivers to monitor river flows,
6 and we've agreed to fund an incremental flow
7 -- instream flow incremental methodology
8 study to, you know, meet the commitments that
9 the project has made in the past but continue
10 to show that as well.

11 MR. DeJONG: I'd like to come
12 back to the IFIM study and the stream gauge.
13 I have that, actually, as a following
14 question. But I think what you've just
15 commented on are very positive steps forward
16 in terms of water conservation in regards to
17 what the plant usage is, but when I think
18 about a water management plan and
19 coordination with Heritage Village, I think a
20 little broader than that in terms of if there
21 are issues associated with low aquifer
22 levels, low river flows, how is that plan
23 going to be implemented, and how will that
24 work with Heritage Village Water Company? I
25 think that's what, at least, I had in mind

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1 when I read about the need for a water
2 management plan.
3 THE WITNESS (Bazinet): We,
4 CPV Towantic, is more than willing to work
5 with Heritage Village on such a plan. I
6 think the reality is that such a plan would
7 take into a number of different
8 considerations that we don't have necessarily
9 control over. For example, I think most
10 people in your world are familiar with the
11 fact that there are a number of different
12 registered not permitted, diversions that are
13 apparently still on the books and not
14 necessarily accounted for to understand
15 whether or not those sources are actually
16 pulling water on a daily basis or less
17 frequently, for that matter, but are actual
18 demands on the system, whether they are
19 actually demands or whether they're just
20 hypothetical demands.
21 So there are a number of
22 different issues that we would be more than
23 happy to sit down with Heritage Village, the
24 Connecticut DEEP and work through as a
25 customer of the Heritage Village system, but

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1 we'd emphasize that it's not just CPV
2 Towantic that puts, perhaps, this issue on
3 the table. It's the fact that Heritage
4 Village supplies a number of different
5 residential customers, commercial customers,
6 industrial customers in this area of Oxford
7 that would also be faced with the same
8 issues.
9 MR. DeJONG: If the Council
10 deemed it appropriate -- this is a follow-up.
11 If the Council deemed it appropriate, would
12 you be able to provide the Council with a
13 draft water management plan for their review?
14 THE WITNESS (Bazinet): Yes,
15 absolutely.
16 MR. DeJONG: Thank you.
17 The next question is related
18 to water conservation. It's a little
19 redundant, but let me give it a try. In its
20 June 23, 1999 decision and order, the Siting
21 Council, in describing an operations plan,
22 the Council included a requirement for a,
23 quote, a water conservation plan to use
24 on-site water storage facility operation
25 during low flow conditions, end of quote.

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1 Please describe how the
2 Heritage Village Water Company and Towantic
3 will coordinate a required response to water
4 conservation during periods of draught and/or
5 high water demands? And perhaps most
6 importantly on this question, if Heritage
7 Village Water Company implements voluntary or
8 mandatory water conservation for its
9 customers, how will Towantic respond?
10 THE WITNESS (Bazinet): So I
11 think you addressed that, in part, in your
12 question. The facility is equipped with two
13 875,000 gallon storage tanks, which could be
14 called upon in such an instance to supplement
15 the facility's water requirements during
16 those periods. Those periods happen to
17 correspond with some of our lower flow
18 conditions as a facility, oil being the
19 higher flow conditions and most likely to
20 occur in the winter.
21 MR. DeJONG: Again, I just
22 would reiterate that that would be -- in my
23 mind that would be part of a water management
24 plan in terms of how Towantic would respond
25 to the water conservation requirements either

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1 set by Heritage Village Water Company or in
2 the future because there is, as part of
3 Public Act 14-163 last year, there is an
4 initiative to move municipalities forward in
5 terms of municipal water use and draught
6 ordinances. So I believe that should be part
7 of the water management plan, and would ask
8 you to consider doing so.
9 Next question: With the water
10 demands for oil-fired operations exceeding
11 one million gallons and with the stated
12 maximum demand being 218,000 gallons per day,
13 the operation of the facility using the plant
14 1.75 million gallons of on-site water storage
15 has been identified to be 52 hours, if I have
16 that correct. Please confirm that the plant
17 will need to shut down operation to comply
18 due to limitation of water supply?
19 THE WITNESS (Bazinet): So 52
20 hours or more pending availability and excess
21 supply, as we discussed in one of your prior
22 questions from Heritage Village, but yes,
23 after 52 hours, absent any excess supply
24 availability from Heritage Village, the plant
25 would need to reset its storage capacity to

1 support further USLD operation.

2 MR. DeJONG: And in follow-up
3 to that question, in follow-up to the
4 previous question, is there any regulatory
5 authority that can require the facility to
6 continue operation and thereby shift water
7 restrictions to other Heritage Village Water
8 Company customers?

9 THE WITNESS (Bazinet): None
10 that we're aware of.

11 MR. DeJONG: Next question:
12 In response to CSC-31, Towantic suggests the
13 possibility for additional water supply from
14 the Heritage Village Water Company during
15 winter due to a decrease in water demands
16 from the Heritage Village Water Company. I
17 believe you just mentioned that earlier.

18 Towantic goes on to say,
19 quote, More water is likely, end of quote.
20 As reported by the coalition, winter flows,
21 at times, have been below those identified as
22 critical to fish habitat during the winter.
23 How does Towantic justify taking more water
24 during the winter season when it will show
25 that the river is already at risk? Again,

1 where we left off in 1999. We have more
2 information today than we did in 1999
3 regarding critical flows during the six bio
4 periods.

5 So my reference to this
6 question -- and it's going to be also
7 referenced in the follow-up question -- has
8 to do with the fact that there are critical
9 flow periods that have been identified as a
10 result of the IFIM study. The river is
11 already exhibiting flows that are below those
12 critical factors, so that's why we, as a
13 coalition, are very concerned about, whether
14 it's Towantic or another large potential
15 water user, how that might impact river
16 health.

17 So I'll go on to the next
18 question. PRWC highlighted in its prefile
19 testimony, the need for a detailed review of
20 how water demands will impact the river
21 ecosystem. In response to Question CSC-33,
22 Towantic argues that additional water
23 withdrawn from the facility will have a small
24 incremental impact on river flows. Has
25 Towantic considered the evidence provided by

1 another long question.

2 THE WITNESS (Bazinet): So we
3 don't -- we actually don't provide the permit
4 conditions that Heritage Village is able to
5 withdraw up to 2.052 million gallons per day
6 from ground water sources. And when we look
7 at our withdrawal from the Heritage Village
8 system relative -- rather than repeating it,
9 I'll direct you to Connecticut Siting Council
10 Interrogatory Number 33, which I think in
11 part addresses the point that you're raising.
12 And under its 1 in 100 conditions, our
13 facility's average demand would represent
14 less than 1.3 percent reduction in stream
15 flow, and that's all within the permitted
16 safe yields of the Heritage Village system.

17 (Whereupon, Mr. Lynch entered
18 the hearing room.)

19 MR. DeJONG: I think it's
20 important to note here, just to tag onto this
21 question, you had mentioned the IFIM study
22 and your willingness to fund that study. We
23 actually -- the coalition actually moved
24 forward in funding that study. That's a
25 completed study, and that's an update to

1 the coalition that indicates that river
2 flows, at times, are already below critical
3 flows identified within the coalition
4 submitted exhibits, both for overwintering
5 and rearing and growth periods. Kind of just
6 restating what I've said that we have now
7 known conditions in the river that we did not
8 know in 1999, based upon the IFIM study that
9 the Council strongly recommended be
10 completed, that suggests that the river is
11 already exhibiting critical flows, have you
12 considered what your impact withdrawals would
13 be on the overwintering and rearing and
14 growth bio periods, which are the two most
15 significantly impacted critical flow periods?

16 THE WITNESS (Bazinet): So the
17 data that I just mentioned to you in your
18 last question was from the 2010 USGS study
19 titled "Estimation of the Effects of Land Use
20 and Groundwater Withdrawals on Stream Flow
21 for the Pomperaug River in Connecticut." It
22 cited that even in under one in a hundred
23 conditions of 7.3 cubic feet per second of
24 stream flow -- I'm not sure if that's
25 synonymous with critical or what. I believe

1 the term was rare -- the facility's average
2 demand would represent less than 1.3 percent
3 reduction of stream flow under rare
4 conditions.

5 I'm not going to profess to
6 know whether that falls above or below
7 critical in terms of the scale of severity,
8 but the data that you're asking about is data
9 quoted from this USGS study that you
10 referenced.

11 MR. DeJONG: And I think it's
12 fair to do that. The coalition will provide
13 some additional study in regards to the USGS,
14 which in itself served as an exhibit in
15 regards to how much water is currently being
16 diverted and how much water is allowed to be
17 diverted and how that study was developed.
18 This is information that was forthcoming.
19 And so your comment is appropriate for the
20 information you have in hand now, but we'll
21 be providing you with some additional
22 information on it.

23 Mr. Chairman, I have three
24 more questions.

25 In granting the Heritage

1 parent company to the Heritage Village Water
2 Company, has a diversion permit for
3 withdrawing water from the river and the
4 ponds for irrigation of its golf course.
5 DEEP has a flow restriction in terms of if
6 the river is flowing at a specific flow
7 level, that diversion permit is no longer --
8 that diversion is no longer usable by the
9 Heritage Development Corporation. I've got
10 to stress it's not the Heritage Water
11 Company. It's the Heritage Development
12 Corporation, the parent.

13 What I'm suggesting is that
14 knowing that DEEP has permitted the Heritage
15 Development Corporation and placed a
16 restriction on the flow suggests to me that
17 DEEP recognizes the concerns that we've tried
18 to share with you regarding flow on the
19 Pomperaug. And as we have stated in our
20 testimony, and I'm restating now, would it be
21 reasonable for the Applicant to request
22 information from DEEP to confirm what
23 Mr. Bazinet just talked about, and that's the
24 registered diversions versus the permitted
25 diversions versus those diversions that are

1 Development Group -- that's the parent
2 company to the Heritage Village Water
3 Company -- a diversion permit for ponds and
4 Pomperaug River withdrawals for golf course
5 irrigation, DEEP has placed a river flow
6 restriction on the ability of Heritage to
7 utilize that diversion; in other words, if
8 the river is flowing below our set point,
9 then the diversion cannot be used.

10 With the understanding that
11 the DEEP has provided comment to the Citing
12 Council, would it be reasonable to request
13 that DEEP officials be further called upon to
14 review both registered and permitted
15 diversions within the basin to assist with
16 the understanding whether Towantic
17 out-of-basin water demands will have an
18 adverse impact on the river?

19 So restating -- it's a long
20 question.

21 MR. SMALL: Can you restate
22 that? I think I had trouble following that,
23 and I think my witnesses may have as well.

24 MR. DeJONG: Sure. The
25 Heritage Development Group, which is the

1 being utilized?

2 MR. SMALL: Mr. Chairman, I'm
3 not sure how we can answer this. There's a
4 combination of legal questions in there,
5 information that we don't know much about.
6 Heritage Village Water Company is a
7 franchised water company with obligations to
8 serve and restrictions on anybody in its
9 franchise area getting water elsewhere. The
10 Heritage Development Company is a company --
11 at least I'm not aware. I'm not sure if our
12 witness panel is -- it's a very different
13 legal situation. Additionally, Heritage
14 Village Water Company has registered
15 diversions, which it uses to meet its public
16 service obligations. This Heritage
17 Development Company certainly is not a public
18 utility, and it's also obtaining diversion
19 permits, which are a very different animal
20 than registered diversions. So, I don't
21 think it's a question my witnesses can
22 answer.

23 I don't know where we would
24 start and whether we should be asking DEEP --
25 and also just even being asked to -- the

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1 question should we be asking DEEP for
2 information. So I guess I'm reluctant to
3 object, but we just can't answer it. I don't
4 think it's a question our witnesses can
5 answer.
6 MR. DeJONG: Mr. Chairman,
7 would it be helpful if the coalition
8 submitted an interrogatory on this issue?
9 THE VICE CHAIRMAN: I'm not
10 sure that an interrogatory does very much
11 because I really think that what, as I
12 understood the question, you're asking the
13 Applicant to ask DEEP if it has this
14 information on diversions and what have you.
15 And so, I assume the answer is no, they don't
16 have the information. And whether they
17 should ask DEEP for it and query whether or
18 not if DEEP thought it was significant enough
19 because they wouldn't have provided this
20 information as a part of their review when
21 they gave us their report, I really don't
22 know. I guess the question is do you want to
23 ask DEEP if they have this information?
24 MR. SMALL: Well, I mean, if
25 you have that information, you can provide it

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1 in the record.
2 THE VICE CHAIRMAN: I assume
3 they don't have it.
4 MR. DeJONG: We don't have all
5 the current information. So maybe the
6 question needs to be withdrawn to the
7 Applicant. Is there a part of the process
8 that allows the coalition to petition the
9 DEEP for this information?
10 THE VICE CHAIRMAN: I don't
11 know that there is.
12 MR. SMALL: You can request
13 the information from DEEP.
14 THE VICE CHAIRMAN: You
15 certainly can ask, and the Applicant can
16 certainly ask.
17 MR. DeJONG: Then I'll
18 withdraw the question, and we'll submit a
19 request to DEEP.
20 THE VICE CHAIRMAN: Maybe both
21 of you will follow up on it. Maybe if two
22 ask, you'll get it, instead of just one.
23 MR. DeJONG: The next
24 question: In response to Question CSC-30,
25 you refer to the Heritage Village Water

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1 Company's legal right to supply water to the
2 facility. However, it is believed that the
3 intent of the question was directed to water
4 sources and not water suppliers. Would it
5 not be possible for Heritage Village Water
6 Company to maintain its exclusive service
7 area by purchasing water for the proposed
8 facility from another provider such as
9 Aquarion Water Company's system that has
10 exclusive service area rights with the
11 southern tier of Oxford in a similar way that
12 Heritage Village Water Company purchased
13 water through the identified Connecticut
14 Water Company interconnect in Middlebury?
15 And I should make mention of
16 the fact for full disclosure, that I am a
17 30-year retired employee of Aquarion Water
18 Company when I asked this question.
19 THE WITNESS (Bazinet): I
20 suspect the answer to the question is yes. I
21 presume not -- and I should probably be
22 deferring to counsel on this -- but that it
23 would be subject to some PURA approval
24 similar to the current situation with
25 Connecticut Water and Heritage Village.

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1 MR. SMALL: Just to clarify as
2 counsel, Heritage Village can serve its
3 customers as a franchise utility any way it
4 chooses, subject to appropriate permit. So
5 it might need PURA approval, it might need
6 approval from the Department of Public
7 Health, and it might need approval from the
8 DEEP, again, depending on what its other
9 water source is, but it could procure
10 supplies from other companies. The answer is
11 yes.
12 MR. DeJONG: Thank you.
13 MR. SMALL: As a legal matter.
14 MR. DeJONG: My concern in
15 reading your response was that the response
16 was limiting it to the fact that water could
17 not be brought in because they have the
18 exclusive service area. And I think you've
19 just reinforced the fact that, if Heritage
20 was interested and it was needed from the
21 facility, they could secure water from other
22 sources, one of them being Aquarion Water
23 Company, which services part of Oxford
24 already.
25 THE VICE CHAIRMAN: But that's

1 a decision for Heritage Water to make and not
2 for them. They ask Heritage for the water,
3 and it's up to Heritage to decide where to
4 get it.
5 MR. SMALL: That's correct,
6 Mr. Chairman.
7 MR. DeJONG: I agree,
8 Mr. Chairman. I'm just trying to clarify the
9 point that --
10 THE VICE CHAIRMAN: There may
11 be other sources available --
12 MR. DeJONG: -- there may be
13 other sources.
14 THE VICE CHAIRMAN: -- but
15 it's not for them to be looking for it. They
16 have to go to Heritage who has the
17 jurisdiction to supply the water.
18 MR. DeJONG: Yes. And my last
19 question, just to reiterate, the instream
20 flow incremental methodology report, the IFIM
21 study, is actually part of the exhibit that
22 we entered early on, so that report has been
23 completed. It provides updated information
24 to where the Council left off in 1999
25 regarding aquatic health of the river. I

1 believe I just heard you say that, if the
2 Council decided to improve your facility and
3 you had to manage water withdrawal from the
4 Pomperaug Basin, you would look favorably on
5 continuing the funding of these gauges; did I
6 hear that correctly?
7 THE WITNESS (Bazinet): Yes.
8 MR. DeJONG: With that,
9 Mr. Chairman, I'd like to thank the Council
10 and the Applicant for your time.
11 THE VICE CHAIRMAN: Before you
12 leave, Mr. Hannon, you have a follow-up?
13 MR. HANNON: I just want to
14 follow up on one of the questions that was
15 asked. I'm not sure I really understood the
16 answer. I was talking about the storage of
17 water on site. I realize that you have the
18 two tanks there. But the way that you
19 responded, it sounded as though you had to
20 deplete the water from both of the tanks
21 before you could refill either of the tanks;
22 is that correct or not?
23 THE WITNESS (Bazinet): No,
24 that's not correct.
25 MR. HANNON: So then the 52

1 hours is if you ran those tanks totally and
2 did not replace any of the water?
3 THE WITNESS (Bazinet): It's
4 assuming that you are replacing the water as
5 you're using it.
6 MR. HANNON: So, if you're
7 replacing the water as you're using it, then
8 there is no 52 hour cap?
9 THE WITNESS (Bazinet): Right.
10 You're only replacing at a rate of 150 or so
11 GPM, and you're consuming at a rate of
12 somewhere between 600 and 700 GPM.
13 MR. HANNON: Okay. So it
14 might extend it a little bit?
15 THE WITNESS (Bazinet): Yes.
16 MR. HANNON: Okay. I just
17 wanted to make sure because the way that you
18 responded, it sounded like you had to use all
19 the water before you could do any refilling
20 of either of the tanks. Okay. Thank you.
21 THE VICE CHAIRMAN: Dr. Bell.
22 DR. BELL: Thank you,
23 Mr. Chair.
24 In line with Mr. Hannon's
25 question trying to clarify this matter of the

1 water tanks, where is the water for the water
2 tanks coming from? We discussed Heritage
3 Village and the 218,000 gallons, but I'm
4 assuming, maybe incorrectly, that CPV would
5 go to Aquarion or a company in Massachusetts,
6 wherever, and bring water in trucks to fill
7 the water tanks. Is that a correct
8 assumption or belief?
9 THE WITNESS (Bazinet): The
10 tanks will be filled by Heritage Village.
11 DR. BELL: So that would be
12 beyond -- above and beyond the 218,000
13 gallons that they would be supplying to you
14 for operations during the whale use?
15 THE WITNESS (Bazinet): We'll
16 begin service, and we'll be subject to caps
17 of 218,000 gallons per day for a certain
18 portion of the year and 150,000 gallons per
19 day for a separate portion of the year. And
20 to the extent there is excess supply
21 available on their system, we discuss with
22 them the ability to take that excess supply,
23 but we will fill the tanks based on the
24 maximum daily quantities that Heritage
25 Village is providing.

1 DR. BELL: And that's per
2 contract with Heritage Village?
3 THE WITNESS (Bazinet): It
4 will be. We are in that process currently.
5 DR. BELL: And if there wasn't
6 enough supply to do what you were saying,
7 which I think I understand, then you would go
8 to some other source?
9 THE WITNESS (Bazinet): We
10 could truck water in. That would obviously
11 be a little more tedious, but we could truck
12 water in, correct.
13 DR. BELL: Thank you.
14 Thank you, Mr. Chair.
15 THE VICE CHAIRMAN: Thank you
16 very much.
17 MR. DeJONG: Thank you,
18 Mr. Chairman, and members of the Council.
19 THE VICE CHAIRMAN:
20 Mr. Hannon.
21 MR. HANNON: Another question
22 on this. So one of the questions I asked
23 previously was the application stated that
24 the demineralized water would be coming from
25 a location off-site. I did not really get a

1 response as to where that would be. So are
2 you, in fact, saying that that off-site
3 location is Heritage Village?
4 THE WITNESS (Bazinet): So
5 potable water will be supplied by Heritage
6 Village, and it will be converted to
7 demineralized water on site via off-site
8 regenerated trailers. So the trailers are
9 portable. They come on the site from other
10 locations and recharge at other locations,
11 but the water is demineralized on-site and
12 stored in water storage.
13 MR. HANNON: Thank you.
14 THE VICE CHAIRMAN:
15 Dr. Klemens.
16 DR. KLEMENS: You gave a
17 number for the low flow, not the worst case
18 scenario, the low flow, a percentage,
19 reduction in surficial water was one point
20 something?
21 THE WITNESS (Bazinet): One
22 second, please.
23 DR. KLEMENS: Once we get it,
24 I have a question.
25 THE WITNESS (Bazinet): So,

1 according to the USGS report done in 2010,
2 under one in a hundred conditions, the stream
3 flow was estimated at 7.3 cubic feet per
4 second. The facility's average demand would
5 represent less than 1.3 percent of that
6 stream flow.
7 DR. KLEMENS: Can you relate
8 that to anything that's less than 1.3? Can
9 you relate that to any type of impact or lack
10 thereof? Because this is a bunch of numbers.
11 What does it mean on the ground? Does it
12 stream over to any kind of impact caused by
13 your water demand in low flow times?
14 THE WITNESS (Bazinet): We
15 don't have a practical comparative point we
16 could use currently. I mean, it's a pretty
17 complex question. I think it would require a
18 follow-up.
19 DR. KLEMENS: Will you follow
20 up? Because you have all these numbers, but
21 I'd like to know what it actually means on
22 the ground to the stream itself.
23 MR. SMALL: Dr. Klemens, we'll
24 file a late-file, but this may be one of
25 those things that needs the extensive studies

1 like the studies previously done. It just
2 strikes me from having looked at those
3 studies, and you've looked at them too, I'm
4 sure, this is a pretty complicated issue.
5 It's not -- so I'll doubt -- we'll see what
6 we can do. And we'll also -- the other thing
7 we should probably do is correlate whether
8 these low flows are in the winter where we
9 have maximum demand to give a little more
10 perspective, but we'll provide a response.
11 It may not have a definitive answer, but
12 we'll do it.
13 DR. KLEMENS: I'm not sure
14 there is a definitive answer, but I'm trying
15 to find it.
16 MR. SMALL: Yes. We'll see
17 what we can do.
18 DR. KLEMENS: Thank you.
19 Thank you, Mr. Chairman.
20 THE VICE CHAIRMAN: Anything
21 further?
22 Mr. Zak, I believe you're here
23 with the Naugatuck River Revival Group?
24 KEVIN ZAK: That is correct.
25 And I'll ask a few simple questions, and then

1 if I get by my nervousness -- I'm a fish out
2 of water here.

3 So, basically, I do need to
4 ask if I will be allowed to ask further
5 questions at another time.

6 THE VICE CHAIRMAN: Yes, you
7 will.

8 MR. ZAK: So, if I get too
9 nervous --

10 THE VICE CHAIRMAN: There's
11 material that hasn't been filed yet, and
12 there's probably material we haven't even
13 dreamt of that will be filed subsequent
14 also --

15 MR. ZAK: Probably.

16 THE VICE CHAIRMAN: -- and so
17 everybody will get a crack when we believe
18 everything is before us. But go ahead.

19 MR. ZAK: Thank you.

20 THE VICE CHAIRMAN: And take
21 your time.

22 CROSS-EXAMINATION

23 MR. ZAK: Thank you. Does CPV
24 have a corporate environmental policy?

25 THE WITNESS (Bazinet): We do,

1 what negative economic and environmental
2 externalities did you consider in your
3 overall analysis of the deposition of
4 pollutants in the surrounding area?

5 THE WITNESS (Sellars): I can
6 take the first crack at that. One of the
7 analyses we did was to look at what the
8 impact of introducing the facility into the
9 grid would be, and the result of that is the
10 displacement of some older, less efficient
11 and higher emitting units. And we were able
12 to quantify the emission reductions for
13 nitrogen oxides, carbon dioxide and sulfur
14 dioxide, for example. There will be a
15 reduction regionally of nitrogen oxide
16 emissions, I believe, of 466 tons per year,
17 beginning in 2018, which will grow to 802
18 tons per year by 2020. For carbon dioxide
19 there'd be a reduction in regional emissions
20 of 270,454 tons per year, beginning in 2018,
21 growing to 486,621 tons per year by 2020.
22 And for sulfur dioxide there would be a
23 reduction in regional emissions of 416 tons
24 per year, beginning in 2018, growing to 2,466
25 tons per year by 2020. So, in terms of those

1 not one I'd be able to quote or --

2 MR. ZAK: Do you have any
3 environmental programs that CPV engages in
4 that I could take to the people to show them
5 your corporate responsibility?

6 THE WITNESS (Bazinet):
7 Perhaps you can more specifically define what
8 you mean by "environmental programs." I
9 could offer up that CPV is one of the largest
10 developers and subsequent constructors and
11 owners of wind generation. I would consider
12 that environmental, but --

13 MR. ZAK: I would also. And I
14 appreciate that, and that's one of the
15 examples. I was just wondering if you have
16 anything other than some kind of clean power
17 generating that you engage in, whether it
18 might be a national park that you're helping
19 with?

20 THE WITNESS (Bazinet): I'm
21 going to suggest that we take that as a to-do
22 item and file a late-filed exhibit that can
23 document all of the things that CPV is
24 involved in.

25 MR. ZAK: With that in mind,

1 environmental externalities, there will be
2 improvement in air quality on a regional
3 basis by the reduction of these emissions.

4 MR. ZAK: But correct me if
5 I'm wrong, there will be pollution emitted
6 from the plant?

7 THE WITNESS (Sellars): That's
8 correct.

9 MR. ZAK: So there will be a
10 carbon footprint?

11 THE WITNESS (Sellars): There
12 will be a carbon footprint, but when you look
13 at the impact of the facility on the overall
14 grid, there will be a net reduction in CO2
15 emissions.

16 MR. ZAK: Is CPV familiar with
17 the history of the Naugatuck Valley and its
18 relationship to pollution in the past and
19 what has occurred since 1999 to the present?

20 THE WITNESS (Bazinet):
21 Perhaps not all of the details that you may
22 be familiar with, but I am familiar with some
23 of the history associated with the Naugatuck
24 River and the -- I don't recall the name of
25 the facility off the top of my head.

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1 MR. ZAK: Uniroyal perhaps --
2 THE WITNESS (Bazinet): Yes.
3 MR. ZAK: -- with their
4 stacks?
5 Can you give me a very brief
6 description of what you know and the CPV
7 knows of that history?
8 THE WITNESS (Bazinet): I'd
9 hesitate to do that at all. You probably
10 have the details a lot better than I do.
11 MR. ZAK: Well, if I may, it's
12 in general the Naugatuck River Valley,
13 including Oxford, the towns, 14 towns
14 surrounding 11 along with the Naugatuck river
15 itself, experienced serious pollution in the
16 course of its history, and since the Clean
17 Water Act and Clean Air Act it has made
18 significant advancements in a positive way.
19 However, it still is very impaired, and it
20 has displayed still serious air pollutants
21 specifically, which range, from time to time,
22 in the top ten worst counties in the country.
23 So, let me go on to another
24 area. Can you tell me how many, if any, any
25 eagles' nests are within a 10-mile radius of

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1 the plant?
2 THE WITNESS (Bazinet): No, we
3 don't have that information available.
4 MR. ZAK: Can you tell me how
5 many turkey vulture nests may be within close
6 proximity, say a couple of miles, up to 10
7 miles, from the plant?
8 THE WITNESS (Bazinet): No.
9 MR. ZAK: How about black
10 vulture nests?
11 THE WITNESS (Bazinet): No.
12 MR. ZAK: How about peregrine
13 falcon nests within 10 miles of the facility?
14 THE WITNESS (Bazinet): I can
15 tell you that we've consulted DEEP on the
16 threatened and endangered species that are
17 present in the vicinity of the site, and
18 we've received a letter indicating the
19 potential for the presence of certain
20 species. I'm sure you have a pretty long
21 list. I could answer each of them, if you
22 like, but I can assure you that I probably
23 don't know how many nests are present for any
24 particular species.
25 MR. ZAK: Are you saying DEEP

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1 knows?
2 THE WITNESS (Bazinet): What
3 I'm saying is that we've consulted with DEEP
4 on the potential presence of certain species,
5 none of which you've mentioned, and they've
6 listed a number of different species that may
7 potentially be present on the site but, no, I
8 don't believe --
9 MR. ZAK: Not on the site.
10 I'm sorry. I meant within a general -- a
11 reasonable distance as the crow flies, so to
12 speak, up to 10 miles.
13 THE WITNESS (Bazinet): I'd
14 refer you to Exhibit 1, Appendix F, which
15 documents the Threatened and Endangered
16 Species Agency correspondence.
17 MR. ZAK: And say that again,
18 please. Exhibit what?
19 THE WITNESS (Bazinet):
20 Exhibit 1 of the petition filing on
21 November 3rd, Appendix F.
22 MR. ZAK: Okay. I do not
23 believe I have that in front of me, but if
24 you can -- is there anything specific that I
25 mentioned? Does that answer the questions

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1 I -- I'm sorry, I'm a little -- I'm a slow
2 study, so please bear with me.
3 THE WITNESS (Bazinet): So,
4 the species that you mentioned are not on
5 that.
6 MR. ZAK: Okay.
7 THE WITNESS (Bazinet): But
8 there are others listed on that.
9 MR. ZAK: How about --
10 THE WITNESS (Bazinet): Do you
11 want me to read it?
12 MR. ZAK: Does it include
13 Osprey nests in the area?
14 THE WITNESS (Bazinet): It
15 includes the red bat, the cory bat,
16 silver-haired bat and Eastern box turtle.
17 MR. ZAK: Moving on, and I
18 think I'll finish with this: I'm a little
19 confused with an interrogatory question
20 CSC-5, page 1, in regards -- second
21 paragraph. And just for my own
22 clarification -- again, I apologize for not
23 understanding what you had written there --
24 halfway down it says -- it talks about the
25 IBA and the Naugatuck State Forest, and it

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1 said it would not experience any adverse
2 impact resulting from the proposed
3 development of the facility. The conclusion
4 that the subject property's open field does
5 not support significant grassland bird
6 habitat is further supported by the DEEP
7 natural diversity database.
8 Back to the first sentence
9 about "not experience any adverse impact
10 resulting from the proposed development of
11 the facility," is that the actual building of
12 the facility? Is that what it's talking
13 about?
14 THE WITNESS (Gustafson): Yes,
15 it's essentially modelable of that habitat.
16 Dean Gustafson, by the way.
17 MR. ZAK: So, in other words,
18 when you're building, that's directly related
19 to just building the facility and the grounds
20 touching your property?
21 THE WITNESS (Gustafson):
22 That's correct.
23 MR. ZAK: Okay. So it doesn't
24 address future noise, correct, from the
25 plant? There is noise, a certain amount of

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1 noise, quote, for lack of a better word,
2 noise pollution from the plant, correct,
3 after it's built going on to 30 years from
4 now?
5 THE WITNESS (Gustafson): That
6 response is specific to the removal of the
7 habitat, but there is a separate noise study
8 that's been submitted as part of the
9 application.
10 MR. ZAK: And so it also does
11 not refer to the lighting of the facility
12 over the next 30 years. Correct?
13 THE WITNESS (Gustafson):
14 That's correct.
15 MR. ZAK: And it does not
16 include the future effluent that is coming
17 out of that plant for the next 30 years.
18 Correct?
19 THE WITNESS (Gustafson): That
20 response does not incorporate that, but there
21 is a separate air study that's been done.
22 THE WITNESS (Sellars): That's
23 correct. The air quality impact analysis to
24 the closest point on the state forest, we
25 looked at all the pollutants and of most

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1 interest has been the PM2.5 or fine
2 particulate emissions. The maximum impact of
3 the plant on that facility on that state
4 forest would be .05 micrograms per cubic
5 meter, and that assumes year-round firing of
6 oil, even though we wouldn't be allowed to do
7 so, a very, very conservative analysis. That
8 translates to four-tenths of 1 percent of the
9 national ambient air quality standard and
10 about zero point 5 percent of the existing
11 background levels.
12 We also did screening of the
13 impact of the facility on plant soils and
14 animals everywhere, and basically the
15 facility has an insignificant impact to any
16 of those parameters, even at its point of
17 maximum impact, which the state forest would
18 be a tiny fraction of that impact.
19 MR. ZAK: I'm sorry. Can you
20 go back to your statement just a second ago.
21 You said everywhere --
22 THE WITNESS (Sellars): We did
23 a -- the analysis is based on the point of
24 maximum impact, which is the highest modeled
25 concentration that would result from the

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1 facility. That point of maximum impact
2 occurs very, very close to the property fence
3 line, and it drops off remarkably with
4 distance in all directions.
5 MR. ZAK: You're referring to
6 the map that was just submitted we received
7 in the mail yesterday --
8 THE WITNESS (Sellars): That
9 was an isopleth of concentrations, correct.
10 MR. ZAK: Exactly. Okay. And
11 It's pretty much just referring to PM2.5.
12 Correct?
13 THE WITNESS (Sellars):
14 Correct, but a similar relationship occurs
15 with all the pollutants.
16 MR. ZAK: Including ground
17 level ozone?
18 THE WITNESS (Sellars): Ground
19 level ozone is really formulated on a
20 regional basis, so the facility will have
21 very, very insignificant impact on ground
22 level ozone anywhere in this area. The ozone
23 levels are formed by the contributions of
24 precursor emissions from a large distance
25 since it's a photochemical reaction that

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1 occurs over a great period of distance and
2 time. So this facility would have pretty
3 negligible impact on ground level ozone
4 concentrations.
5 MR. ZAK: What analysis has
6 your company done on the current emissions in
7 the Naugatuck Valley?
8 THE WITNESS (Sellars): Well,
9 we've included in our analysis monitored
10 background levels that occur in a number of
11 receptors around the state, as well as
12 cumulative impact analyses for certain
13 pollutants, as directed by the Department of
14 Energy and Environmental Protection.
15 MR. ZAK: Thank you. No
16 further questions. Thank you.
17 THE VICE CHAIRMAN: Thank you,
18 Mr. Zak.
19 Next will be Lake Quassapaug
20 Association.
21 (No response.)
22 The Middlebury Bridle Land
23 Association.
24 (No response.)
25 THE VICE CHAIRMAN: Town of

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1 Southbury?
2 EDWARD EDELSON: No questions.
3 THE VICE CHAIRMAN: I missed
4 the Naugatuck Valley Audubon Society.
5 JEFF RUHLOFF: Good afternoon,
6 Members of the Council. Thank for this
7 opportunity to ask some questions.
8 THE VICE CHAIRMAN: Would you
9 give us your name for the record, please.
10 MR. RUHLOFF: My name is Jeff
11 Ruhloff. I'm a member of the board of
12 directors of Naugatuck Valley Audubon
13 Society.
14 MR. LYNCH: Would you bring
15 the microphone closer, please.
16 MR. RUHLOFF: Jeff Ruhloff,
17 Naugatuck Valley Audubon Society Board of
18 Directors.
19 We have two other members of
20 the board who are unable to be here, so I
21 have a couple of questions from them and a
22 couple from myself.
23 CROSS-EXAMINATION
24 MR. RUHLOFF: My first
25 question to the Applicant is: What's the

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1 expected operational lifetime of the plant?
2 THE WITNESS (Bazinet): So
3 we've provided a more formal answer to the
4 same question in Westover interrogatory
5 responses. I believe it's Question Number 9.
6 It goes on to say that the expected life of
7 the facility is in excess of 35 to 40 years.
8 MR. RUHLOFF: And in your
9 corporate experience now with wind and with
10 gas, do you see this being a continued best
11 means of creating clean energy over that
12 lifetime?
13 THE WITNESS (Bazinet): I'm
14 sorry. It was Question Number 7, by the way,
15 not Number 9.
16 MR. RUHLOFF: Thank you.
17 THE WITNESS (Bazinet): And
18 I'm sorry, can you please repeat that
19 question?
20 MR. RUHLOFF: From your
21 experience as building and managing both wind
22 plants and gas plants, do you see a gas plant
23 continuing to be the best method of providing
24 clean energy for the lifetime of this plant?
25 THE WITNESS (Bazinet): So, as

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1 a corporate philosophy, we believe gas and
2 renewables are very complementary resources,
3 and we believe that for the foreseeable
4 future, including the lifetime of this
5 facility, both will continue to play an
6 integral role in reshaping the resource mix
7 of the power generated in the United States.
8 MR. RUHLOFF: And then to
9 shift, there is the -- you mention that the
10 survey for the wetland areas, the first
11 survey, was on June 26 of 2014; is that
12 correct?
13 THE WITNESS (Gustafson):
14 That's correct.
15 MR. RUHLOFF: And I just have
16 to ask, isn't that late in the year to be
17 doing an amphibian survey?
18 THE WITNESS (Gustafson): It
19 is late with respect to observing any active
20 breeding as far as egg mass counts, but
21 larvae, you would expect to see larvae that
22 time of year for pelobates species.
23 MR. RUHLOFF: And to then also
24 follow up to the Connecticut Siting
25 Council -- this was Question 5, where it's

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1 saying, per the Department of Energy and
2 Environmental Protection, they are not
3 finding grassland birds to be expected.
4 That's also referenced from the Audubon IBA
5 information. Have there been any wildlife
6 surveys of any kind of any detail on the site
7 or its immediate surroundings?
8 THE WITNESS (Gustafson): Not
9 that I've been -- not that we've addressed.
10 THE WITNESS (Gresock): The
11 prior application for the currently approved
12 configuration did include a number of
13 wildlife surveys back at that time.
14 MR. RUHLOFF: I guess it would
15 be an open request. Where would that
16 information be available? I have not found
17 anything relating to an environment impact
18 statement from 1999.
19 MR. SMALL: It would be in the
20 Siting Council files, the copy of the
21 application and the copy of everything else
22 in their files, and they're part of this
23 record too.
24 MR. RUHLOFF: All right. Now,
25 is that available on line then somewhere, or

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1 would I need to come here?
2 THE VICE CHAIRMAN: I'm
3 informed you'd have to come here. It's not
4 available on line because it's so far back.
5 MR. RUHLOFF: Okay. Those are
6 the only questions I have at this time.
7 THE VICE CHAIRMAN: Did you
8 have any questions of the parties that
9 couldn't make it?
10 MR. RUHLOFF: That includes at
11 this time.
12 THE VICE CHAIRMAN: Thank you
13 very much.
14 Dr. Klemens.
15 DR. KLEMENS: I just have a
16 question maybe for Mr. Gustafson. At what
17 point does a wildlife study, in your
18 professional judgment, need to be redone? Is
19 one 15 years old adequate?
20 THE WITNESS (Gustafson): In
21 my professional opinion, it probably needs
22 some some level of updating because 15 years
23 would, in my opinion, be considered a
24 significant enough period that additional
25 data would probably be useful.

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1 DR. KLEMENS: Thank you.
2 Thank you, Mr. Chairman.
3 THE VICE CHAIRMAN: Okay.
4 Dennis Kocyla, K-o-c-y-l-a.
5 (No response.)
6 THE VICE CHAIRMAN: Town of
7 Southbury?
8 (No response.)
9 THE VICE CHAIRMAN: GE Energy
10 Financial Services?
11 (No response.)
12 The Borough of Naugatuck Water
13 Pollution Control Authority?
14 Wayne McCormack?
15 WAYNE McCORMACK: I have no
16 questions.
17 THE VICE CHAIRMAN: Thank you.
18 The Westover School?
19 KATE TRUINI: My name is Kate
20 Truini. I am the director of environmental
21 sustainability programs at Westover School.
22 We're a small all-girls independent school
23 located on the green in Middlebury,
24 Connecticut. The interrogatories we
25 submitted were formulated by students in a

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1 sustainability energy course, and I have
2 additional questions regarding NOx and some
3 of the items in Exhibit 1 around page 25.
4 CROSS-EXAMINATION
5 MS. TRUINI: Can you explain
6 SLI, EPA's significant level impact, and to
7 what that refers? I'm not familiar with that
8 terminology.
9 THE WITNESS (Sellars): Sure.
10 In addition to establishing ambient air
11 quality standards, the United States
12 Environmental Protection Agency also
13 establishes some other parameters and
14 metrics. Most important among those are the
15 prevention of significant deterioration
16 increments, and then they also promulgate a
17 set of significant impact levels. One
18 significant impact level is a screening
19 concentration.
20 It is not a health-based
21 number. It is a screening concentration that
22 the EPA uses to determine if a cumulative
23 impact analysis is warranted on the basis of
24 the potential project's contribution to air
25 quality. It is also the level in a

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1 nonattainment area, in an area that does not
2 attain the ambient air quality standards,
3 that a new facility is allowed to degrade air
4 and still be approved. The ambient air
5 quality standard is the health-based
6 statistic that's based on levels set by EPA
7 for the protection of the health of the most
8 sensitive segments of the population,
9 typically chronic asthmatics, emphysemics,
10 the elderly, children.
11 They also adopt prevention of
12 significant deterioration increments which
13 are for areas that currently attain the
14 ambient air quality standard. These are the
15 levels of degradation in air quality that are
16 determined to be insignificant.
17 MS. TRUINI: Thank you.
18 I'm aware that Connecticut is
19 now designated unclassifiable attainment in
20 regard to NO2. In December, this coming
21 December, there will be new data. Do you
22 think that that will affect the status of the
23 plant's impact right now?
24 THE WITNESS (Sellars): There
25 will be new data from monitors that are

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1 placed very specifically close to roadways
2 that will determine what the values are in
3 those areas. I do not anticipate a change in
4 attainment designation.
5 MS. TRUINI: Or ambient
6 background levels?
7 THE WITNESS (Sellars):
8 Correct.
9 MS. TRUINI: And that same
10 answer would not affect levels of NO2 putting
11 it over that NAQS?
12 THE WITNESS (Sellars): The
13 ambient air quality standard for NO2, on an
14 annual basis, is 100 micrograms per cubic
15 meter, and currently at the monitor deemed to
16 be most representative of the area where the
17 facility is proposed to be located has a
18 background concentration of 21 micrograms per
19 cubic meter, so it's a small fraction of
20 that.
21 MS. TRUINI: From that page 26
22 regarding offsets for NOx, due to changed
23 conditions, you're required to obtain 57 more
24 offsets. That would be a total of 237
25 offsets. And does that mean that you're

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1 putting into the air 234 tons of NOx, one ton
2 per offset, and over what time period?
3 THE WITNESS (Sellars): The
4 facility will emit 196.2 tons per year of
5 nitrogen oxide emissions compared to the
6 originally-approved facility that was
7 emitting 246 tons per year.
8 MS. TRUINI: Can you say that
9 second number again?
10 THE WITNESS (Sellars): Sure.
11 The facility that was approved in 1999 would
12 have emitted 246 tons per year of nitrogen
13 oxides. The annual emissions of the proposed
14 facility is 196.2 tons per year. Now, the
15 offsets are required to be obtained at a
16 ratio of 1.2 to 1. So there are 177
17 previously acquired offsets, and an
18 additional 57 tons of offsets would be
19 required for the facility to receive its air
20 permit.
21 MS. TRUINI: Can you say that
22 one more time? Can you repeat that one more
23 time? I understand the 1.2 to 1 ratio.
24 THE WITNESS (Sellars): Sure.
25 The facility calculates a total, let's call

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1 it, potential to emit. So this is assuming
2 that it operates at its maximum allowable
3 condition over the course of the year. So
4 that would be the full 720 hours of oil
5 operation. The plant would be running 8,760
6 hours a year flat out at 100 percent load
7 under its maximum conditions. If you looked
8 at that, the total that it could potentially
9 emit would be 192.2 tons per year. So, we
10 would need 1.2 times that in total nitrogen
11 oxide offsets to satisfy the EPA's Cap and
12 Trade Program. The project previously
13 acquired 177 tons of offsets, and it will
14 acquire 57 additional tons prior to
15 operation.
16 MS. TRUINI: These offsets
17 will come from the regional airshed, New
18 Britain. Can you explain the size of that
19 regional airshed, and is that in surrounding
20 towns in Connecticut?
21 THE WITNESS (Sellars): Sure.
22 The offsets, in order to be approved, have to
23 meet a number of tests. Among them is they
24 have to be from a source that is either shut
25 down or reduces its emissions beyond what

1 would be legally required in the same
2 nonattainment area as the project or an
3 adjacent nonattainment area of equal or
4 higher nonattainment severity. So the entire
5 Northeast of the United States is
6 nonattainment for ozone. Some areas are more
7 severely nonattainment than others.

8 So the offsets would need to
9 come from the same nonattainment area which
10 covers Southwestern Connecticut and it goes
11 into Long Island and New York City or an
12 adjacent area that was equal or more severe
13 in ozone nonattainment severity.

14 MS. TRUINI: How do the
15 offsets work? Is NOx removed from the air,
16 is it nitrogen fixing bacteria?

17 THE WITNESS (Sellars): The
18 offsets are created from something called
19 "the emission reduction credit." So, when a
20 facility that currently emits nitrogen oxides
21 either shuts down or voluntarily establishes
22 controls on its emissions and reduces actual
23 emissions, not a paper reduction in permitted
24 emissions, but reduces the actual amount of
25 emissions, it can apply for an emission

1 reduction credit. So, in order to be
2 approved, they have to meet the tests of --
3 they have to be real, real reductions, so
4 it's reduction from the actual emissions.

5 You have to be quantifiable,
6 so they have to have demonstrated and proven
7 what their emissions were. They have to be
8 permanent, so it has to be a permanent
9 reduction. So the facility that was creating
10 the emission reduction credits would have to
11 surrender its air permit or take an
12 additional restriction of its air permit.
13 And then finally they have to be federally
14 enforceable, so they would have to be
15 established as a condition on the donor
16 sources permit.

17 And they have to be surplus.
18 That means they have to be above and beyond
19 any requirement that otherwise would be
20 applying to the facility. So, if a facility
21 was required to reduce its emissions, it
22 can't get credit for those emission reduction
23 credits.

24 MS. TRUINI: And has the
25 proposed plant met those standards, or is

1 that something that would happen when it's
2 being built?

3 THE WITNESS (Sellars): For
4 the 177 tons of offsets it currently has,
5 those emission reduction credits were
6 certified as having met those obligations,
7 and for the additional 57 tons of offsets,
8 they would have to be certified by the
9 Department of Energy and Environmental
10 Protection as meeting those requirements.

11 MS. TRUINI: So, by running
12 this plant, it looks like the NOx levels in
13 our area would be doubling. Is there any --
14 no.

15 Are there initiatives in the
16 local area of Oxford that would be addressing
17 NOx levels here?

18 THE WITNESS (Sellars): Well,
19 there will be two things to keep in
20 consideration. One is the nitrogen oxide
21 offsets are really required because the
22 facility is located in an area that does not
23 attain the National Ambient Air Quality
24 Standard for ozone, and nitrogen oxide is one
25 of the precursors of ozone. Ozone is a

1 regional pollutant. And in addition to those
2 offsets, as I mentioned a little earlier
3 today, the facility will be displacing the
4 operation of older, less efficient, higher
5 emitting facilities, and that would result in
6 a net reduction in nitrogen oxides.

7 So, first of all, one of the
8 things that you have to -- if you look at
9 just nitrogen oxides for nitrogen dioxide, I
10 guess I would disagree it would be doubling
11 the impact or the nitrogen oxide levels in
12 the area. If you look on page 25 of
13 Exhibit 1, you see what the impact
14 concentration is.

15 So, on an annual basis, for
16 example, for nitrogen dioxide, the project's
17 maximum impact would be 1.4 micrograms per
18 cubic meter. This compares to an ambient
19 background level of 21 micrograms per cubic
20 meter compared to the 1.4, and then you add
21 the background plus the impact and compare
22 that to the ambient air quality standard,
23 which is 100 micrograms per cubic meter.

24 So we have to basically meet
25 two tasks. One, we can't cause or contribute

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1 to an impact that would result in a violation
2 of the ambient air quality standard. And in
3 addition, EPA has established something
4 called PSD increments, prevention of
5 significant deterioration increments, and
6 they've determined basically how much
7 degradation can be allowed in an area that
8 currently attains the ambient air quality
9 standard before the impact of the facility
10 would be significant and not be allowed, and
11 that increment is 25 micrograms per cubic
12 meter.

13 It's also very important to
14 note that all of that math and where the
15 impacts are based on the maximum modeled
16 impact of the facility, and the annual
17 concentrations that I've given you, the
18 maximum impact occurs very, very close to the
19 property line of the facility, and it also
20 incorporates a number of very, very
21 conservative assumptions in terms of how the
22 facility will operate over the course of the
23 year. So it's based on that maximum
24 potential to emit.

25 In this case the impact would

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1 be based on, assuming that the facility was
2 burning oil year-round, even though that
3 would not be allowed, the concentrations drop
4 off very, very rapidly from that point of
5 maximum impact. So, across the entire area,
6 the impact will be much less. For example,
7 at your school if you looked at, say, PM2.5
8 impacts, the maximum at Westover School would
9 be four-tenths of 1 percent of existing
10 level, something like that, so very, very
11 small. And a similar relationship would
12 occur relative to all of the other pollutants
13 as well.

14 THE VICE CHAIRMAN:
15 Ms. Truini, do you have much more?
16 MS. TRUINI: I don't. I have
17 one more.

18 THE VICE CHAIRMAN: Okay. Why
19 don't we wrap up with you before we break.
20 MS. TRUINI: Actually two
21 more.

22 THE VICE CHAIRMAN: Well,
23 we'll give you two.

24 MS. TRUINI: With SO₂, H₂SO₄,
25 NO_x increasing with the new plant relative to

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1 the original design and the need to consider
2 regional effects, how will this affect pH of
3 rainfall moving forward?
4 THE WITNESS (Sellars): Sure.
5 As you know, sulfur dioxide is an acid rain
6 contributor. And the facility's maximum
7 impact for sulfur dioxide, on an annual
8 basis, is .03 micrograms per cubic meter
9 compared to an existing background of 29
10 micrograms per cubic meter, so it would have
11 a negligible effect on the overall sulfur
12 burden in the atmosphere and therefore would
13 be expected to have a negligible effect on
14 acid deposition.

15 In addition, because acid
16 deposition like ozone, is a regional issue,
17 it's imperative to look at the impact of the
18 facility on a holistic basis on the region in
19 terms of what the overall sulfur burden would
20 be in the region. And because this facility
21 would be dispatched ahead of older, less
22 efficient, higher emitting units, there would
23 be a net reduction in SO₂ in the region of
24 416 tons per year in 2018, growing to 2,466
25 tons per year in 2020. So, you'd have to

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1 look at it as basically a net benefit in
2 terms of that acid deposition.

3 MS. TRUINI: Thank you.

4 My closing question: I think
5 Westover is the only school with intervenor
6 status, and so I feel kind of obligated to
7 ask about are you familiar with the Harvard
8 study correlating exposure of pregnant woman
9 in their third trimester to PM2.5 and risks
10 of autism? Is there anything else that I
11 should be aware of about effective possible
12 emissions on developing bodies? I'm
13 specifically concerned with teenage girls.

14 THE WITNESS (Sellars): Sure.
15 When the United States Environmental
16 Protection Agency adopts those ambient air
17 quality standards, they look at a wide range
18 of epidemiological studies, and they are to
19 take into account all of those things. So,
20 we are relying on EPA's ambient air quality
21 standards as our basis. And because the
22 facility in terms of, you know, its burden on
23 particulate emissions would be a lot lower
24 than what was originally proposed and such an
25 insignificant fraction of those ambient air

1 quality standards, particularly at a location
2 like where your school is, it's, in fact, a
3 small percentage of the natural year-to-year
4 variation in observed levels in the area,
5 we'd have to conclude that it really is going
6 to have no effect on the health of your
7 students.
8 MS. TRUINI: Thank you.
9 That's all.
10 THE VICE CHAIRMAN: Thank you
11 very much. We'll break now for lunch and
12 resume at 1:55.
13 (Whereupon, the witnesses were
14 excused, and a recess for lunch was taken at
15 1:06 p.m.)
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1 AFTERNOON SESSION.
2 1:57 P.M.
3
4 DEAN GUSTAFSON,
5 FREDERICK SELLARS,
6 LYNN GRESOCK,
7 ANDREW BAZINET,
8 JON DONOVAN,
9 DANIELLE POWERS,
10 TANYA BODELL,
11 having been previously duly sworn, were
12 examined and testified further on their
13 oaths as follows:
14 THE VICE CHAIRMAN: I'd like
15 to call to order again the meeting of the
16 Connecticut Siting Council and continued
17 cross-examination. The next intervenor is
18 the Westover Hills Subdivision Homeowners.
19 Marian Larkin and Greenfield LLC.
20 MR. HILL: Good afternoon.
21 For the record, I'm Attorney Edward Hill, and
22 with me today is Marian Larkin, and she will
23 do the questioning.
24 MR. SMALL: Will you please
25 identify for the record what that --

1 MS. LARKIN: This is
2 Exhibit A, and this is mostly Middlebury,
3 Connecticut, the power plant.
4 THE VICE CHAIRMAN: If you're
5 going to do most of the questioning, why
6 don't you take the microphone.
7 MS. LARKIN: We're calling
8 this Exhibit A dated yesterday, the power
9 plant location on it, and this is Middlebury
10 with some Oxford on it, and this is the
11 southwest corner of Middlebury, and the
12 shaded area is actually land that my family
13 owns in Middlebury, Connecticut, and it's
14 just under 1,000 acres.
15 MR. SMALL: And is this
16 document part of the record at this point?
17 Did you intend to offer it into the record?
18 MS. LARKIN: It may be. You
19 may enter it if you like. I'd be happy to
20 enter it.
21 THE VICE CHAIRMAN: Any
22 objection?
23 MS. LARKIN: If you were to
24 take this map, which is part of your book,
25 this is your topo map. This is just a

1 partial view. I shaded the area that is our
2 property with the -- a piece of our property.
3 Our property actually exceeds and extends up
4 to here. You can enter that too because
5 that's already in the record.
6 MR. SMALL: I just think it
7 should be submitted and then taken in as an
8 exhibit, but for presentation purposes, no
9 objection.
10 MS. LARKIN: Okay.
11 Chairman Stein, Attorney
12 Bachman, members of the Siting Council, my
13 name is Marian Larkin. I live at 747 South
14 Street, Middlebury, Connecticut. My
15 affiliation is to my family, both present and
16 future. We are farmers, but we're not just
17 that. We also have professionals amongst the
18 family. We grow hay, corn, timber, and we
19 also lease homes.
20 MR. SMALL: Excuse me. This
21 is cross-examination. I'm going to object to
22 the statement as opposed to
23 cross-examination.
24 MS. LARKIN: I'm here today to
25 question the Applicant regarding the adverse

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1 impacts against our real estate, the
2 environment and the air by the proposal of
3 this power plant.
4 MR. SMALL: Again, we're
5 objecting. Mr. Chairman, we're objecting to
6 a statement. If they have questions, please
7 let Ms. Larkin ask us questions.
8 CROSS-EXAMINATION
9 MS. LARKIN: All right. Do
10 you know how many acres the Larkins own in
11 Middlebury and Oxford, please?
12 THE WITNESS (Bazinet): You
13 just stated for the record just under 1,000
14 acres.
15 MS. LARKIN: Uh-huh. And the
16 Applicant owns how many acres?
17 THE WITNESS (Bazinet): So we
18 own 20 acres with an option to purchase an
19 additional 6.2 acres.
20 MR. ASHTON: So you've got 20
21 plus possibly 22?
22 THE WITNESS (Bazinet): Plus
23 6.2.
24 MS. LARKIN: Is it true that
25 the Applicant will be sending pollutants by

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1 air and pipe beyond the boundaries of its 26
2 acres?
3 THE WITNESS (Sellars): Yes.
4 The facility will be seeking a permit from
5 the Department of Energy and Environmental
6 Protection, and will admit products of
7 combustion, yes.
8 MS. LARKIN: And how far do
9 the liquid pollutants go from the 26-acre
10 site before they are finally disposed of in
11 some manner?
12 THE WITNESS (Sellars): I'm
13 not aware of any liquid pollutants.
14 MS. LARKIN: What is it that
15 goes to the Naugatuck septic sewer plant, is
16 that not a liquid?
17 THE WITNESS (Bazinet): The
18 water that's discharged from the project site
19 to the Oxford water pollution control system
20 and subsequently to the Naugatuck
21 publicly-owned treatment works is typical
22 discharge associated with any
23 commercial/industrial facility, not specific
24 to our power plant.
25 MS. LARKIN: Oh, so there are

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1 no extraordinary pollutants in that water
2 from the power plant?
3 THE WITNESS (Bazinet): No.
4 MS. LARKIN: And is there
5 ammonia in that effluent?
6 THE WITNESS (Bazinet): No.
7 MS. LARKIN: No ammonia
8 whatsoever. Okay.
9 As far as the pollutants by
10 air, how far do you say that they will
11 extend?
12 THE WITNESS (Sellars): The
13 pollutants by air, we modeled a grade of
14 several miles around the facility. As I
15 testified earlier, the point of maximum
16 impact is very, very close to the property
17 fence line, and the concentrations drop off
18 rapidly with distance as you move away from
19 the fence line. And there's an exhibit
20 that's been filed, Late-File 2Q, which
21 provides isopleths of what the concentrations
22 are as you move away from the facility.
23 MS. LARKIN: Well, would you
24 say that the air pollution extends throughout
25 our property? I can tell you from here that

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1 that's --
2 MR. ASHTON: Ms. Larkin, I
3 have a request. I have good eyesight. I'm
4 an engineer. I haven't got the foggiest idea
5 what that Exhibit A is. I don't know what
6 the white lines are. They look like isobars.
7 Would you kindly explain that, if you're
8 going to refer to it?
9 MS. LARKIN: As long as I have
10 permission to do so, I'm happy to.
11 Okay, 1,000 feet, 2,000, and
12 on and on, 1,000 foot increments.
13 MR. ASHTON: And that's from?
14 MS. LARKIN: From the power
15 plant site from --
16 MR. ASHTON: Okay. And the
17 power plant site is at the left center on
18 that diagram?
19 MS. LARKIN: Yes.
20 MR. ASHTON: Where is your
21 property?
22 MS. LARKIN: This -- it's
23 shaded. I'm sorry you can't tell. That's a
24 land trust property that my family gave to
25 the land trust, and this is our property,

1 this shaded area. This is Route 84. We go
2 over Route 84. This is Westover School right
3 here, that land here, for instance.
4 MR. ASHTON: And those are
5 1,000 foot increments?
6 MS. LARKIN: Thousand foot
7 increments.
8 MR. ASHTON: Thank you very
9 much.
10 MR. LYNCH: Could you give the
11 direction -- this is an audio tape. What
12 direction is your property from the site?
13 MS. LARKIN: It's north and
14 east.
15 MR. LYNCH: Thank you.
16 MR. ASHTON: North and east.
17 Where is north on that map?
18 MS. LARKIN: North is this
19 way.
20 MR. ASHTON: That's a little
21 different.
22 MS. LARKIN: Let me do it this
23 way.
24 MR. ASHTON: Leave it the way
25 it was.

1 Now, would it be possible for
2 you to keep your pollutants inside the
3 boundaries of your 26 acres?
4 THE WITNESS (Sellars): No.
5 No facility, regardless of how small, would
6 possibly be able to do that. Even a house
7 could not do that.
8 MS. LARKIN: Could you use
9 less natural resources in the way of water
10 and drinking water?
11 THE WITNESS (Bazinet): We've
12 taken a number of pretty significant measures
13 to reduce the overall consumption of water
14 from the facility, and we've evaluated other
15 methods of storage, other sources of water.
16 There may be other methods that we haven't
17 yet explored, and we're willing to explore
18 those methods, but we feel as if we've done a
19 pretty exhaustive and thorough job of trying
20 to minimize the overall consumption relative
21 to the prior approved facility.
22 MS. LARKIN: What could you do
23 more? Is there something you could do more
24 about? You said you were looking at other
25 things.

1 MS. LARKIN: Which do you
2 like?
3 THE VICE CHAIRMAN: Leave it
4 the way it was. We'll turn our head to look
5 in the other direction.
6 MR. ASHTON: So, north is to
7 the right, as you have the map displayed on
8 the board. The plant site is at the left and
9 south of your property generally by 2,000 to
10 4,000, 5,000 feet, something like that.
11 MS. LARKIN: I can tell you
12 this increment says 4,000 right here. The
13 closest we are is about -- I can't read it.
14 Sorry -- 2,000. So that's like 2,500 to our
15 property right here.
16 MR. ASHTON: Okay. And what
17 is your property, is it open space?
18 MS. LARKIN: A lot of it is
19 open space. We have a lot of forest land and
20 a lot of farmland.
21 MR. ASHTON: Thank you.
22 MS. LARKIN: So I was going to
23 ask you whether you knew which increment our
24 property falls into, and I just told you the
25 answer so...

1 THE WITNESS (Bazinet): No. I
2 think I said that I'd be willing to look at
3 other things that we haven't yet looked at,
4 but none of which I have at the tip of my
5 tongue.
6 MS. LARKIN: Okay. I'm
7 wondering whether -- well, your plant, you
8 say that your plant will have minimum visual
9 impact, but is it not true that on an
10 830-foot leveled by you-all site, that
11 150-foot tall stacks with plumes emanating
12 from them, sometimes opaque steam and smoke,
13 wouldn't that have a fairly great visual
14 impact?
15 THE WITNESS (Gresock): There
16 will be locations in the community from which
17 the facility will be visible. One of the
18 things that this project configuration does
19 is try to reduce that visual impact by
20 reducing the height of a number of structures
21 at the facility.
22 MS. LARKIN: Do you think you
23 could possibly plant some trees -- evergreens
24 would be nice -- to block the plant so that
25 it would be less visible from all directions,

1 specifically our direction?
2 THE WITNESS (Gresock):
3 Generally speaking, there are a lot of
4 existing trees in the community that do block
5 the lines of sight from a lot of locations
6 that surround the facility.

7 MS. LARKIN: But those are
8 mostly deciduous trees on your site. I don't
9 think there's one pine tree up there that I
10 saw. Could you put pine trees up there so no
11 one would have to see as much of it for real
12 estate values alone right there?

13 THE WITNESS (Bazinet): So
14 we're more than willing to incorporate tools,
15 you know, to visually mitigate the facility
16 sight lines. In fact, the current
17 development and management plan considers
18 that as much as possible of the existing
19 vegetation on the northern end of the site
20 will be retained to do exactly that. I don't
21 know that there's any tree -- and I'm not an
22 expert in this particular realm -- that could
23 be planted to shield entirely the stacks
24 proposed for this location.

25 MS. LARKIN: It might help you

1 understand that you dropped it by one foot.
2 Why have you dropped it by one foot since the
3 1999 proposal?

4 THE WITNESS (Bazinet): So,
5 the reality -- there was actually a small
6 difference, if I recall, between the northern
7 end of the site and the southern end of the
8 site. It wasn't graded flat at 830 and a
9 half.

10 MS. LARKIN: Okay.

11 THE WITNESS (Bazinet): But
12 there are a number of different factors that
13 contributed to reducing the overall site
14 footprint from, you know, a height standpoint
15 as well as visually.

16 MS. LARKIN: Okay. So, it's
17 not a big deal, you're telling me, just
18 evening it out. Okay.

19 So, when you factor in the
20 height of the stacks with the elevation, how
21 high is that, that the top of the stacks
22 would be from sea level, how many feet?

23 THE WITNESS (Bazinet): Nine
24 hundred and eighty feet above mean sea level.

25 MS. LARKIN: Are you familiar

1 to know that pine trees do like to be on the
2 north slopes and northeast slopes, so that
3 could help you realize more blockage.

4 THE WITNESS (Bazinet): If I
5 could direct you to condition 2E of the
6 original D&M plan, dated I think it's October
7 2001.

8 MS. LARKIN: Sorry, is that in
9 here?

10 THE WITNESS (Bazinet): It's
11 part of the existing Docket 192B.

12 MR. SMALL: So it would be in
13 the Siting Council files.

14 THE WITNESS (Bazinet): Which
15 has a landscaping plan which does include
16 evergreens.

17 MS. LARKIN: And are they tall
18 evergreens? They're like cathedral-type
19 pines.

20 THE WITNESS (Bazinet):
21 Without reviewing each of the details here, I
22 reference that exhibit and, you know, you
23 will be able to find all the details in that.

24 MS. LARKIN: Could you lower
25 your plant some? I mean, I already

1 with the hills in the Middlebury, Southbury,
2 Woodbury, Naugatuck, Oxford area and how tall
3 they are?

4 THE WITNESS (Gresock): We
5 don't have the exact heights, but we know
6 there are hills, and some of them are taller
7 than the stacks.

8 MS. LARKIN: We say that
9 perhaps Andrew Mountain is taller, but
10 perhaps none of the others are taller,
11 particularly since they don't have stacks on
12 them with plumes on top of that.

13 THE WITNESS (Bazinet): The
14 topography of the land, as you go east of the
15 site, actually exceeds 980.

16 MS. LARKIN: How far east?
17 Where?

18 THE WITNESS (Bazinet): We
19 could provide a reference point for you, if
20 you'd like.

21 MS. LARKIN: Because our land
22 doesn't exceed 980 for sure, so we go to
23 about 820. We see eye to eye with you in
24 some places. Sorry.

25 MR. SMALL: Let's have

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1 questions, not editorial comments.
2 MS. LARKIN: I'm sorry.
3 MR. SMALL: But if you want,
4 we can provide a late-filed exhibit with
5 elevations.
6 MS. LARKIN: Elevations. That
7 would be great. That would be great.
8 Can you tell me how, when the
9 plumes go up before they completely disperse,
10 how high are those plumes going to go? I
11 mean, of course, it depends on wind
12 condition, but when they're all mixed up with
13 the atmosphere, how high are those going to
14 go for visibility reasons?
15 THE WITNESS (Gresock): The
16 modeling that we've done has been air
17 dispersion modeling and hasn't identified the
18 heights of the stacks -- of the plumes. But
19 looking at the MITRE modeling that was done
20 back in 2012 for the prior project
21 configuration, we spoke last time about a
22 median height of the plume above the stack
23 that had been identified from 28 to 29 feet,
24 and then, obviously, under certain weather
25 conditions it would be taller. The 99th

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1 percentile value they identified was 344 to
2 532 feet, and the range really reflected the
3 difference between stable and unstable wind
4 conditions.
5 MS. LARKIN: So what was your
6 highest number, please, again?
7 THE WITNESS (Gresock): The
8 2012 MITRE model for the 99th percentile had
9 532 feet identified.
10 MS. LARKIN: Above the stack
11 height?
12 THE WITNESS (Gresock): Above
13 the stack height.
14 MS. LARKIN: That's
15 remarkable.
16 Were a lot of you on the site
17 when the council members were there the other
18 day? And you could see for miles and miles
19 around, could you not? Well, were you at the
20 site with the Siting Council the other day
21 when we were all there?
22 THE WITNESS (Gresock): Yes.
23 MS. LARKIN: Okay. How many
24 miles do you think you could see from that
25 site?

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1 THE WITNESS (Gresock): I have
2 no idea.
3 MS. LARKIN: Was it quite
4 lengthy like in terms of 20 miles, 50 miles?
5 THE WITNESS (Gresock): I have
6 no idea.
7 MS. LARKIN: Did it seem to be
8 as far as the eye could see?
9 THE WITNESS (Gresock): I
10 can't answer that question.
11 MS. LARKIN: I'm sorry.
12 And it was a beautiful view.
13 Correct?
14 THE WITNESS (Gresock): It was
15 a clear day, yes.
16 MS. LARKIN: So, when it comes
17 to real estate, would you agree that a
18 beautiful view is something that would make
19 the value of your real estate higher?
20 MR. SMALL: Could you restate
21 that question because I'm not sure I
22 understand it?
23 MS. LARKIN: I am saying that
24 the view from the power plant was beautiful,
25 and real estate value is, is it not, often

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1 predicated on -- a higher value -- on a
2 beautiful view?
3 MR. SMALL: Mr. Chairman, none
4 of our witnesses are real estate appraisers,
5 real estate experts, et cetera, so we don't
6 have the ability to answer that question.
7 THE VICE CHAIRMAN: So the
8 answer from the panel is you don't know?
9 MR. SMALL: Yes.
10 MS. LARKIN: Excuse me. Do
11 any of you own any homes with views?
12 MR. SMALL: We're getting far
13 afield, I think.
14 MS. LARKIN: Okay. I'm trying
15 to address real estate values, and I would
16 assume that that's okay to address something
17 that impacts my family greatly because of our
18 acreage that is so close to the plant.
19 MR. SMALL: Can I request,
20 Mr. Chairman, that the questioner ask
21 questions and not constantly editorialize and
22 attempt to get information in the record when
23 she's not there as a witness subject to
24 cross-examination?
25 THE VICE CHAIRMAN: I'll ask

1 you to make an effort to do that. I
2 understand --
3 MS. LARKIN: I'm trying to.
4 I'm just not an attorney. I do not know how
5 to do this.
6 THE VICE CHAIRMAN: I
7 appreciate that.
8 MS. LARKIN: Okay.
9 So this is sort of hard for me
10 to do here. So would it surprise you that
11 realtors will be writing in to you all, the
12 Siting Council, and the Applicant, about the
13 values of real estate that would be
14 diminished by looking at the plant, if they
15 don't see the plant there or the stacks but
16 the plumes, and they will be writing in, so
17 we will be hearing from people who are local
18 experts.
19 Do you know --
20 THE VICE CHAIRMAN: For the
21 record, real estate values is not one of the
22 items that can be taken into account in
23 making the decision.
24 MS. LARKIN: Oh, really?
25 Okay. Well, then we can talk about pollution

1 and water. Okay.
2 Can you tell me why -- I mean,
3 I'm sorry. Can you tell me why real estate
4 values would not be taken into consideration
5 since -- by a statute?
6 MS. BACHMAN: The charge of
7 the Council is to balance the public benefit
8 of the facility against the potential adverse
9 environmental impacts. Those environmental
10 impacts are delineated under Section 16-50p.
11 MR. HILL: Ms. Bachman, if I
12 can just point out to you that, on your
13 website, you do talk about the balancing of
14 the provision of reasonably-priced utility
15 services against the environment, but you
16 also talk about the sacrifice of scenic and
17 historic and other assets. That's on your
18 website. So it seems to me that the impact
19 on real estate values is relevant to this.
20 If the Commission rules that it's not, then
21 we won't ask any questions about it.
22 MS. BACHMAN: Attorney Hill,
23 real estate values and property values are
24 not part of the evaluation. And again, that
25 is Section 16-50g, which does describe the

1 Council's charge. But I would advise perhaps
2 you should look at 16-50p, which lists all of
3 the criteria this Council has considered.
4 MS. LARKIN: I have a quick
5 question on visibility. Then why are
6 balloons even tethered to the site for us to
7 see where the stacks will be? Why does that
8 even happen if it doesn't matter?
9 THE VICE CHAIRMAN: That's
10 really not the real estate value. That's the
11 visual impact for the surrounding area.
12 MS. LARKIN: And as that
13 reflects on real estate. Sorry. I have a
14 broker's license. All right. Let's go
15 ahead.
16 So, when you put that up for
17 educational reasons for whatever, the balloon
18 is quite small, and I would say that -- oh,
19 no.
20 May I show you what 22 feet
21 look like? I have a tape, Chairman Stein.
22 MR. SMALL: Objection. What's
23 the purpose of this?
24 THE VICE CHAIRMAN: What's the
25 purpose of this?

1 MS. LARKIN: Because the
2 balloon is only 5 feet, and the stacks, of
3 which there are two, are way out.
4 THE VICE CHAIRMAN: We
5 understand that.
6 MS. LARKIN: Okay.
7 THE VICE CHAIRMAN: The
8 balloon was of the standard size. The
9 balloons are flown at our request for dockets
10 involving wireless towers, and so forth, and
11 it's really to give the members of the
12 council and their staff and the public an
13 appreciation as to where on the horizon the
14 height of wherever the structure plan, as
15 being proposed, would be located and where it
16 is visual from the surrounding areas. It's
17 not meant to depict that it's a tower or it's
18 a building or it's a smoke stack.
19 MS. LARKIN: I understand
20 that. And the impacts are plentiful.
21 Okay, moving on, you've
22 measured the emissions from this plant. And
23 would you live next to this plant if you had
24 your druthers? Could you live next to it?
25 THE WITNESS (Gresock): I

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1 absolutely would.
2 MS. LARKIN: Really? Okay.
3 So would you prefer living
4 next to a solar plant, if you were given the
5 choice, or a wind plant, or a fossil fuel
6 plant would be okay to live next to -- be all
7 right? I don't mean "next to," within a
8 mile.
9 THE WITNESS (Gresock): As a
10 personal question, yes.
11 MS. LARKIN: You would. All
12 right.
13 Are you aware that the
14 pollution can actually impact living things,
15 you know, all creatures, humans?
16 THE WITNESS (Sellars): As
17 part of our analyses, we did a pretty
18 comprehensive air quality impact analyses,
19 and you have to compare your impacts to
20 metrics that relate to whether there's an
21 impact to animals, vegetation, soils and,
22 most importantly, human beings. So, the
23 United States Environmental Protection Agency
24 has set national ambient air quality
25 standards for the protection of public

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1 health. They've also established secondary
2 ambient air quality standards for the
3 protection of public welfare, including
4 impacts to animals, plants, et cetera, and
5 wildlife.
6 In addition to that, as part
7 of our air permit application, in addition to
8 demonstrating that our impacts are a small
9 fraction of those ambient air quality
10 standards and would not threaten the area's
11 ability to comply with those standards, we're
12 required to do an analysis of what the impact
13 is on soils, vegetation, and wildlife. And
14 using the United States Environmental
15 Protection Agency screening criteria that
16 look at various sensitive wildlife species,
17 as well as plant life, we do an analysis and
18 compare the screening levels. If you exceed
19 those screening levels, then more
20 sophisticated analyses would be required.
21 A facility's maximum impacts
22 very, very conservatively modeled, assuming
23 operating scenarios that we couldn't possibly
24 operate under for conservatism, result in
25 impacts that are a very, very small fraction

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1 of those screening levels. So it is my
2 opinion that this facility will not have a
3 significant adverse impact on people, plants,
4 animals, soils, vegetation, wildlife.
5 MS. LARKIN: When the EPA does
6 a study like that, do they study it as far as
7 that the impacts are mixed in and everything
8 is evenly distributed, in other words, the
9 pollution is evenly distributed over the
10 area, or do they take into consideration that
11 some of that pollution will always go to
12 wherever the air depression is at the time,
13 right?
14 THE WITNESS (Sellars): Our
15 modeling determines where the concentrations
16 will be the highest, and we take that highest
17 maximum predicted impact level and compare
18 those to thresholds that have been
19 established for the protection of humans,
20 plants, animals and vegetation.
21 MS. LARKIN: Do we have maps
22 of where those spots are with their
23 concentrations?
24 THE WITNESS (Sellars): Yes.
25 They've been filed as part of our exhibit

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1 number --
2 MS. LARKIN: All right.
3 MR. SMALL: It was filed as
4 Late-File Exhibit 2Q filed on February 5th.
5 MS. LARKIN: Okay.
6 THE WITNESS (Sellars): And
7 what that exhibit shows is, even at the point
8 of maximum impact, the facility's maximum
9 impacts are a small fraction not only of the
10 ambient air quality standards, but of
11 existing levels of those pollutants that are
12 in the atmosphere right now, and in fact, in
13 most cases, they're an insignificant fraction
14 of the natural year-to-year variation in the
15 measured levels.
16 MS. LARKIN: Do you know that
17 exposure from air pollution can cause soil to
18 become unproductive? Did you know that?
19 THE WITNESS (Sellars): I'm
20 quite aware. Having been the coauthor of the
21 United States Department of Energy's Acid
22 Rain Information Book, I've been studying
23 this for about 35 years.
24 MS. LARKIN: Good.
25 THE WITNESS (Sellars): And

1 the exposure of those soils to significant
2 concentrations of air pollutants can have a
3 deleterious effect, which is why you do a
4 screening against the soil criteria, and it
5 looks at the deposition rates onto the soil,
6 as well as what the impact -- the uptake
7 rates of the plants that would be in those
8 soils are, and the maximum impact at this
9 facility is a tiny fraction of those
10 screening levels.

11 MS. LARKIN: So there is a UVA
12 study, have you seen that, that, for
13 instance, timber trees, a timber crop, can
14 lose 30 percent of its growth from being
15 exposed to air pollution?

16 THE WITNESS (Sellars): To
17 what level of air pollution?

18 MS. LARKIN: I don't have that
19 answer. Can you tell me?

20 THE WITNESS (Sellars): I
21 think that's what's --

22 MS. LARKIN: Can you tell me?

23 THE WITNESS (Sellars): That
24 is what those screening levels are based on.
25 They're based on those kinds of studies that

1 MS. LARKIN: So you can assure
2 me that we won't have any difficulty having
3 our trees grow and our hay grow and our crops
4 being okay?

5 THE WITNESS (Sellars): If
6 your hay grows now, your hay will grow fine
7 in the future.

8 MS. LARKIN: Okay. So, being
9 that we're so close to the plant and knowing
10 that there have been some Richter scale
11 magnitude explosions, not only -- we're
12 talking about gas fuel explosions of 1.1
13 magnitude near the San Francisco Airport and
14 over 5 magnitude at the Middletown plant,
15 Kleen Energy, which was felt all the way to
16 New York State, would it be fair to say that
17 there's an unease to the residents of --
18 well, us, for instance, and people nearby,
19 particularly of a possible -- obviously, it's
20 a supposition -- possible conflagration given
21 that there's a compressor gas station next
22 door and fuel stored on site, and so on?

23 MR. SMALL: I'm going to
24 object to the question just in the sense of
25 we can't answer a question whether people

1 determine what the impact would be on -- when
2 the impact would be significant,
3 significantly affect vegetation. So, if
4 you're looking at the pollutants themselves,
5 they are ubiquitous in the environment. You
6 emitted them on the way here in your car, and
7 your house emits them. So it's all a matter
8 of concentration. It's a matter of how much
9 and what those concentrations are and how
10 those concentrations compare to the
11 sensitivity thresholds either of vegetation
12 or of people.

13 MS. LARKIN: All right. But
14 given our close proximity, doesn't that mean
15 that we're affected more than others would
16 be?

17 THE WITNESS (Sellars): You
18 would be affected less than somebody closer
19 and more than somebody farther away, but the
20 levels, even at the point of maximum impact,
21 are a small, insignificant fraction of the
22 ambient air quality standards that have been
23 set to protect people and the secondary
24 standards that are set to protect plants,
25 animals and wildlife.

1 have an unease. If the question is meant to
2 be is this facility safe, I believe we can
3 answer that.

4 MS. LARKIN: Would it be fair
5 to say to you that would it be something that
6 you could understand that I wouldn't feel
7 safe?

8 MR. SMALL: That's total
9 speculation.

10 MS. LARKIN: Well --

11 MR. SMALL: If you want, we
12 can answer the question with respect to the
13 safety of the plant. If you want to know
14 what people's perception is, I'm going to
15 object and ask the Chair to rule.

16 MS. LARKIN: But accidents do
17 happen, though, don't they, right?

18 THE VICE CHAIRMAN: We all
19 know that.

20 Dr. Klemens.

21 DR. KLEMENS: Can I ask a
22 question?

23 There's a gas line there now.
24 So I guess the question is, is by placing a
25 plant there increasing the chance of

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1 explosion or not, or is it what it is now?
2 MS. LARKIN: And the gas lines
3 expanding --
4 DR. KLEMENS: That's a
5 question for the Applicant.
6 THE WITNESS (Bazinet): I
7 mean, we will, and we do, as a company across
8 many different parts of the country, put into
9 place many different precautions to avoid any
10 such incident. Does the risk increase? I
11 honestly don't know the answer to that
12 question, but what I can say today is that
13 there's the presence of a gas pipeline.
14 There is a facility that compresses and
15 handles that gas on a daily basis. And
16 assuming that appropriate measures and safety
17 precautions are put into place, the
18 likelihood of an event ever occurring is
19 very, very small.
20 For example, the Nevas and
21 Thomas Commission recommendations will be
22 implemented on a facility like this to ensure
23 that gas is not used for pipe cleaning. So,
24 I think measures of that nature are going to
25 be put in place, will be outlined in our

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1 development and management plan as we
2 proceed, and the risk analysis piece, I'm not
3 sure I'm qualified to do that but --
4 DR. KLEMENS: Thank you.
5 MS. LARKIN: Do you know that
6 the pipeline that's there now is going to be
7 expanded in diameter?
8 THE WITNESS (Bazinet): There
9 are modifications being made to the Algonquin
10 system based on their current project that
11 was approved by FERC, correct.
12 MS. LARKIN: Is your plant
13 going to be serviceable, operational
14 supposedly when the pipeline expands, or can
15 you operate on the smaller size pipe now,
16 which is like 24 or 30? Which is it, 24 or
17 30 inches now?
18 THE WITNESS (Bazinet): It's
19 26 and 30. And we can operate off of either.
20 MS. LARKIN: Okay. So the 42
21 inches will have more gas go through it, but
22 you don't necessarily need it, you don't need
23 the 42 inches because that's what it's going
24 to because we get letters to this effect that
25 they're doing this on our property because we

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1 do have a gas line on our property?
2 THE WITNESS (Bazinet): I'm
3 not sure. I know there are pieces of the
4 pipeline that are being upgraded to 42
5 inches. I'm not sure which sections of the
6 pipe are being done. So I'm not sure how to
7 answer your question. All I can say is that
8 we could operate the entire plant on either
9 one of the pipelines with or without the
10 upgrade.
11 MS. LARKIN: So the more fuel,
12 the bigger the fire; would that be right?
13 THE WITNESS (Bazinet): I'm
14 sorry. I'm not sure of the question you're
15 asking.
16 MS. LARKIN: Well, if there
17 were an accident and the accident were fed by
18 a great deal of fuel, there would be an even
19 bigger problem?
20 THE WITNESS (Donovan): Is the
21 question related to the utility?
22 MS. LARKIN: It's related to
23 the fact that there are multiple fuels on two
24 sites side by side, and either one could
25 conflagrate the other, and the more fuel

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1 there is, the more damage, the bigger the
2 explosion, whatever. I'm not a munitions
3 expert.
4 THE WITNESS (Donovan): This
5 isn't munitions, and I can't really speak for
6 the utility, but generally those pipelines
7 are operated with very fast-acting control
8 valves to slam shut in the event of a loss of
9 pressure.
10 MS. LARKIN: Are you familiar
11 with the PG&E explosion -- I think it was
12 2010 -- east of the airport, a 20-some-odd
13 inch gas line with a poor weld exploded, and
14 45 homes were destroyed, eight people were
15 killed, 52 were injured, and PG&E did not
16 turn that gas off for 95 minutes?
17 THE WITNESS (Bazinet): So we
18 are familiar with it. I'm not sure how
19 applicable that is to this particular
20 scenario, and in no case does the presence of
21 our facility exacerbate that.
22 MS. LARKIN: Mr. Chairman, may
23 I address economics in this conversation?
24 Yes, I think --
25 All right. Do you know that

1 there's a large horse industry in
2 Connecticut? Are you aware of that?
3 THE WITNESS (Bazinet): We're
4 aware that, based on various submittals to
5 this particular proceeding, there is a horse
6 industry in Connecticut. Large, I think, is
7 a pretty subjective term, but other than
8 that, yes.

9 MS. LARKIN: Do you know that
10 there are more horses per capita in
11 Connecticut than any other state? Do you
12 know that as a fact?

13 THE WITNESS (Bazinet): I
14 don't know that as a fact.

15 MS. LARKIN: And the economic
16 value of that would be fairly large to the
17 state with sales of goods and, you know?

18 MR. SMALL: Your prefile
19 testimony did mention that. We haven't had a
20 chance to explore or cross-examine.

21 MS. LARKIN: Are you aware
22 that there are -- well, you are aware of the
23 Larkin State Bridle Trail existence?

24 THE WITNESS (Bazinet): Yes.

25 MS. LARKIN: And are you aware

1 MS. LARKIN: You don't have
2 any horseback riders in your group. Okay.

3 A question I have is: If we
4 are polluted now greatly, as Connecticut is
5 already over the limits EPA-wise, why is it
6 that this plant would be a good idea here?

7 THE WITNESS (Sellars): As I
8 testified earlier, the facility will displace
9 the operation of older, less efficient and
10 higher emitting power plants across the
11 region, and as a result, there will be a net
12 reduction in air pollution in the region by a
13 significant amount.

14 In addition to that, the only
15 pollutant for which the area is not attaining
16 the national ambient air quality standards is
17 ground level ozone. Ozone is a regional
18 pollutant, and because the facility is
19 locating in an ozone nonattainment area, it's
20 in addition to that displacement benefit
21 required to actually get offsets of nitrogen
22 oxide emissions, which are the precursor to
23 ozone. So twice we'll reduce emissions.
24 We'll have to get offsets equal to 1.2 times
25 our total tons per year of nitrogen oxide

1 that there are multiple trails that connect
2 to that, including the use of both the gas
3 line and the transmission lines as bridle
4 trails, those right-of-ways are used for
5 those purposes; are you aware of that?

6 THE WITNESS (Bazinet): I
7 wasn't personally aware of that, no.

8 MS. LARKIN: Okay. You are
9 aware that horseback riding is a recreational
10 event and enjoying the outdoors, and so
11 forth, would that be correct, and that one
12 would -- well, okay. Go ahead. Sorry. It's
13 recreation.

14 THE WITNESS (Bazinet): Yes.

15 MS. LARKIN: Is there
16 something you can do to make riding as
17 enjoyable as it is now after the plant was
18 put in place? I'm talking in reference to
19 noise pollution, air pollution, visibility,
20 across the board?

21 MR. SMALL: I'm going to
22 object on the ground the word "enjoyable,"
23 again, is so subjective. I don't think the
24 witnesses could properly answer that
25 question.

1 emissions in the same ozone nonattainment
2 area or an adjacent area equal or higher
3 ozone nonattainment severity plus the
4 displacement. So, if you add those two
5 benefits together, there will be a net
6 reduction in burden on air pollution.

7 MS. LARKIN: Are you talking
8 about the carbon credits that you're
9 purchasing elsewhere?

10 THE WITNESS (Sellars): No,
11 I'm not talking about carbon credits. I'm
12 talking about nitrogen oxide offsets, which
13 are the precursor to ozone. In addition to
14 that, the facility itself will displace
15 emissions of nitrogen oxides by reducing the
16 operation of older, less efficient, higher
17 emitting units in the region.

18 MS. LARKIN: And isn't that --
19 you're reading into the future. It's like a
20 supposition --

21 THE WITNESS (Sellars): I
22 wouldn't consider it a supposition. I would
23 consider it a mathematical model based on the
24 dispatch or in the dispatch queue of the
25 facilities. They are dispatched in order by

1 the grid operator generally in direct
2 proportion to its marginal cost, which is
3 directly related to the plant's efficiency.
4 So we've done analyses and modeling of what
5 the future in 2018 to 2020 dispatch would
6 look like with and without the facility, and
7 with the facility there will be a significant
8 reduction in emissions of all of the
9 pollutants that we looked at.

10 MS. LARKIN: I do understand
11 that water bodies do die from pollutants, I
12 mean, the life in them die, and I think it
13 affects human health, correct, these
14 pollutants do, there are many studies that
15 say that?

16 THE WITNESS (Sellars): Yes,
17 which is the basis of the ambient air quality
18 standards. And because emissions, on a
19 regional basis, affect water bodies, the fact
20 that there will be less emissions on a
21 regional basis with the plant than without
22 the plant points to its environmental
23 benefit.

24 MS. LARKIN: Okay. I wonder
25 if any of you have read Dr. Klemens'

1 And since ozone is a regional pollutant, its
2 formation is over a very, very broad area.
3 It results from a photochemical atmospheric
4 reaction of precursor pollutants. So the
5 levels of ozone in Connecticut are
6 determined, in large part, by the emissions
7 of those precursors in New Jersey, New York,
8 Pennsylvania, and places further up wind.

9 In terms of carbon credits,
10 the facility has to buy allowances of CO2,
11 like all power plants in the Northeast, and
12 that's related to global warming. And global
13 warming is a global pollutant, not a regional
14 pollutant or a local pollutant, a global
15 pollutant, which is why planting trees in the
16 Amazon will offset CO2 emissions in New York
17 City. The basis is the global concentration
18 of CO2 in the atmosphere.

19 In addition to that, because
20 the facility is a power plant over 25
21 megawatts, it has to participate in a cap and
22 trade program for sulfur dioxide emissions as
23 part of the acid rain program. So it will be
24 required to participate in that program.
25 Acid rain, like ozone, is formed over a

1 testimony from 1999 for the energy
2 application. And would you please do so and
3 have it reflect into what your thinking is
4 here, please? Is that possible? Would you
5 do that?

6 MR. SMALL: Would you file
7 that, and that can be a late-filed exhibit
8 and we can all look at it, because I don't
9 believe we've seen that document.

10 MS. LARKIN: Okay.

11 MR. SMALL: Okay.

12 MS. LARKIN: I have to ask you
13 something very important here. Is buying
14 carbon credits in another state actually
15 going to help any of us here who are going to
16 be living within 10, 20 miles of this plant?
17 I mean, how is that really going to help us?

18 MS. LARKIN: You're talking
19 about carbon credits?

20 MS. LARKIN: Sorry. I'll just
21 put it this way: Pollution credits.

22 THE WITNESS (Sellars): Well,
23 there's two different things going on.
24 There's multiple things going on. The
25 offsets relate to the formation of ozone.

1 regional area and through a number of chain
2 of atmospheric chemistry reactions. So the
3 pH of the rain in Connecticut is determined
4 by all of the sources basically from Ohio
5 eastward, be they local, midrange, or long
6 distance.

7 MS. LARKIN: The key question
8 I have is: Planting trees in the Amazon,
9 fine, but how will that help people here?
10 Will they become less sick? Will they have
11 less lung disease? Will they have less heart
12 disease? Will there be less children with
13 autism? How will that benefit us?

14 THE WITNESS (Sellars): Well,
15 lung disease and cardiovascular problems and
16 autism are really based on what the
17 concentrations of pollutants are. We can't
18 take into account in our air quality impact
19 analysis studies any credit whatsoever for
20 the displacement emissions of the older,
21 dirtier plants, from the offsets or from the
22 allowances. The facility has to model its
23 maximum impacts all by itself without taking
24 any credit for any of the other benefits or
25 the offsetting factors. Those levels are

1 then compared to the ambient air quality
2 standards which are set for the protection of
3 the health of the most sensitive segments of
4 the population, and we're a tiny fraction of
5 those, and therefore, we can conclude that
6 the facility is not going to have a
7 significant adverse impact on health.

8 MS. LARKIN: Were you at the
9 public hearing in Oxford?

10 THE WITNESS (Sellars): I was.

11 MS. LARKIN: Did you hear the
12 doctor who had just gotten off an airplane
13 and came rushing up to speak about power
14 plant pollution?

15 THE WITNESS (Sellars): Yes, I
16 did.

17 MS. LARKIN: Do you remember
18 what he said?

19 THE WITNESS (Sellars): I
20 remember some of it. I remember there were a
21 number of inaccuracies in what he said. He
22 was a -- if it's the right person, there was
23 a number of people that spoke, but he seemed
24 to be confused about the use of offsets
25 basically to demonstrate compliance.

1 MS. LARKIN: Did he not speak
2 about research? He's a researcher.

3 THE WITNESS (Sellars): Yes.
4 Okay.

5 MS. LARKIN: He's a doctor
6 researcher, physician researcher.

7 THE WITNESS (Sellars): Okay.

8 MS. LARKIN: And maybe some of
9 the other people were there. Did he not
10 refer to the high incidence of cancers, lung
11 disease, emphysema, asthma, heart attacks,
12 MIs, from proximity to power plants?

13 THE WITNESS (Sellars): He
14 did. And that's one of the inaccuracies in
15 what he was talking about. All power plants
16 are not the same. There are a number of
17 power plants that emit thousands of times
18 more emissions per megawatt hour than this
19 facility does. You can't lump them all
20 together. Exposure to diesel exhaust has all
21 of those same problems that he talked about.
22 That doesn't mean that if you bought a
23 diesel-powered Volkswagen Rabbit that you
24 would wipe out the population of Oxford.

25 MS. LARKIN: I understand.

1 But if this plant has a life of 20 to 30
2 years, isn't that a huge amount of pollution
3 to dump in an area that's whatever, two miles
4 out, three miles out, that's a huge amount,
5 am I wrong, because over time you have
6 effects -- because over time you have
7 effects.

8 THE WITNESS (Sellars): Over
9 time you have to look at the total emissions,
10 and we've projected as far as we can into the
11 future based on what we know right now in
12 terms of what the emissions would be with and
13 without the facility, and with the facility
14 the emissions will be lower in the region
15 than without the facility because we will be
16 displacing older, dirtier facilities.

17 MS. LARKIN: But this one will
18 be here, won't it, it will be right here?

19 THE WITNESS (Sellars): I'd
20 rather have this one here for 35 years than
21 some of the existing ones.

22 MS. LARKIN: But most of us in
23 this room, would you agree, live here that
24 are against the plant?

25 Okay. So, ozone. How do they

1 affect pollination -- how does it affect
2 pollination, do you know?

3 THE WITNESS (Sellars): I'm
4 not familiar with pollination itself. Ozone
5 basically is an ambient air quality standard
6 because of its impact on humans and the
7 environment.

8 MS. LARKIN: Right. And NOx,
9 when it comes in contact with X, it becomes
10 ozone; am I right?

11 THE WITNESS (Sellars): NOx is
12 a precursor to ozone --

13 MS. LARKIN: Right.

14 THE WITNESS (Sellars): --
15 when emitted with volatile organic compounds
16 and strong sunlight over a long exposure
17 period and over considerable distance and
18 time.

19 MS. LARKIN: So do you have an
20 understanding of how important pollination is
21 to all of us?

22 THE WITNESS (Sellars): I do.

23 MS. LARKIN: Okay. And you do
24 know that the bees are having a hard time
25 because of ozone, you know that? It's part

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1 of a study.
2 THE WITNESS (Sellars): Bees
3 are having a hard time for a number of
4 reasons, and I would not pin it directly on
5 ozone.
6 MS. LARKIN: Okay. But it's
7 one of the reasons.
8 THE WITNESS (Sellars): It may
9 be one of a multitude of reasons, but there's
10 something far more severe going on with bee
11 populations right now than ozone.
12 MS. LARKIN: How about overall
13 pollution?
14 THE WITNESS (Sellars): Again,
15 a number of stressors on bee populations
16 right now, pesticides, herbicides, a number
17 of things are causing a decline in the bee
18 population.
19 MS. LARKIN: So wouldn't it
20 be --
21 THE WITNESS (Sellars): And
22 given that the ozone levels have not
23 significantly varied over the last 30 years,
24 if any, they've gone down in a lot of areas
25 and gone up slightly in a lot of areas, I

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1 think it would be pretty hard to pin the most
2 recent decline in bee population on ozone
3 since the levels have not changed.
4 MS. LARKIN: I guess you
5 haven't seen the UVA study that says that the
6 bees can no longer scent -- the scent of the
7 flower, for instance, doesn't go as far as it
8 used to because it's dissipated, if not
9 completely eliminated, at about 400 feet
10 instead of 1,000 feet; did you know that?
11 THE WITNESS (Sellars):
12 Because of why?
13 MS. LARKIN: Because of ozone.
14 THE WITNESS (Sellars): If the
15 ozone levels haven't changed, how is that
16 different than it was 20 years ago?
17 MS. LARKIN: Okay. So let's
18 add it to the mix.
19 MR. ASHTON: Ms. Larkin, could
20 you keep your voice up a little bit?
21 MS. LARKIN: I'm sorry.
22 MR. ASHTON: It's awfully hard
23 to hear.
24 MS. LARKIN: Maybe this is the
25 problem. I don't know.

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1 DR. KLEMENS: Go closer to the
2 mike.
3 MS. LARKIN: Okay. So, do you
4 think that you can in any way -- well, never
5 mind.
6 Wouldn't it make more sense to
7 not have a fossil fuel plant here at all
8 being that it pollutes as opposed to being a
9 green energy type?
10 THE WITNESS (Bazinet): So,
11 Mr. Sellars has tried to answer the question
12 with respect to pollution on a number of
13 different occasions and over the last 10 or
14 15 minutes. The location of the facility is
15 based on a number of different factors, and
16 we think this location is ideally suited for
17 a power plant, and I think that's probably
18 even more evidenced by the fact that the
19 facility was recently awarded a capacity
20 supply obligation demonstrating the need for
21 such a facility through the ISO New England
22 forward-capacity market.
23 There's just a number of
24 different factors driving this particular
25 location and the overall need for a facility

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1 like this, and I think Mr. Sellers did his
2 best to address your questions with regard to
3 pollution.
4 MS. LARKIN: When did that
5 statement come out from ISO? Is that a
6 recent statement?
7 THE WITNESS (Bazinet): The
8 press release was issued on the 4th.
9 MS. LARKIN: Okay. Are you
10 sure that the reason you want to put the
11 plant there isn't just because there's been
12 another power plant approved there and also
13 just a happenstance of a crossing of a gas
14 line and a power line?
15 THE WITNESS (Bazinet): I
16 mean, I think I just answered that question.
17 MS. LARKIN: Okay. That's
18 fine.
19 MS. LARKIN: Can you tell me
20 how this plant would actually benefit me
21 personally, my family, our property
22 specifically?
23 THE WITNESS (Bazinet): There
24 are a number of different benefits that
25 accrue to the region. Those include a

1 reduction in electric rates, a reduction in
2 overall emissions in the region. It involves
3 a number of different jobs and economic base
4 that's created in the state of Connecticut.
5 There's a study that was performed by UConn's
6 Connecticut Center for Economic Analysis
7 related to the regional economic impact of a
8 facility like this. Those are all a number
9 of different ways in which your family, you
10 in particular, will benefit from a facility
11 like this. We've -- pardon me for a minute.
12 (Pause.)
13 THE WITNESS (Bazinet): We've
14 provided some analysis on the impacts to an
15 individual ratepayer and recently filed,
16 dated 1/30/15, late-filed Exhibit 2J.
17 MS. LARKIN: Now, I don't know
18 how you would measure this, but if I said to
19 you that there's a much larger benefit
20 locally, if not statewide, from our truly
21 green, truly clean 953 plus or minus acres,
22 would you agree with that?
23 MR. LYNCH: Could you please
24 keep your voice up?
25 MS. LARKIN: Yes. Sorry.

1 MR. SMALL: Could you repeat
2 the question?
3 MS. LARKIN: I just said would
4 you be surprised if I said to you or would
5 you -- and I said I didn't know how to
6 measure this -- but if I said to you that I
7 believe that there's a much larger benefit
8 locally, if not statewide, from our truly
9 green and truly clean 953 plus or minus
10 acres, as seen on this map?
11 THE WITNESS (Bazinet): So the
12 exact numbers, I don't have those, as you
13 don't, but I think more specifically we
14 wouldn't envision any impacts as a result of
15 this facility. So I think that benefit still
16 exists pre and postconstruction of this
17 facility.
18 MS. LARKIN: And I know you're
19 having difficulty with the water situation
20 attaining enough water. There's a gap in
21 your supply from your primary supplier. Are
22 you -- I know at one point you were
23 suggesting wells on your site. Are you still
24 thinking of doing wells?
25 MR. SMALL: First, I don't

1 know that we necessarily agree with the
2 characterization of "difficulty," but --
3 MS. LARKIN: I'm sorry. Okay.
4 Well, we'll go back to that.
5 MR. SMALL: -- Mr. Bazinet can
6 answer the question.
7 THE WITNESS (Bazinet):
8 Actually, can you repeat the question? I
9 apologize.
10 MS. LARKIN: I don't know how
11 to measure this, but in my view, wouldn't the
12 benefit to not only the state -- to ourselves
13 locally, but also to the state, be greater,
14 larger from our clean, truly clean and truly
15 green 953 acres?
16 THE WITNESS (Bazinet): We
17 just answered that question.
18 MS. LARKIN: Is that the wrong
19 question?
20 THE WITNESS (Bazinet): Yes,
21 you're on the next question after that.
22 Sorry.
23 MS. LARKIN: All right.
24 Sorry. Sorry. Is there a gap in your water
25 supply? Let's start there. Do you have a --

1 THE VICE CHAIRMAN: The
2 question was whether you were going to drill
3 wells.
4 THE WITNESS (Bazinet): We do
5 not intend to drill wells, no.
6 MS. LARKIN: You won't. Okay.
7 That's a good.
8 So you do have a gap in your
9 water supply plan?
10 THE WITNESS (Bazinet): No.
11 MS. LARKIN: No? Okay. So
12 could you edify me, please, as to how you are
13 going to get a million gallons running on oil
14 and the number on gas is 2 --
15 THE WITNESS (Bazinet): The
16 water supply plan that we've put forth is
17 contingent on both supply from Heritage
18 Village as well as on-site storage, which is
19 enough to support, in our view, enough
20 continuously ULSD operated hours in order to
21 call on basically the worst conditions that
22 are forecasted in the foreseeable future.
23 We've come to that conclusion based on the
24 detailed analysis looking at one of the two
25 worst winters on record over the past 25

1 years.
2 MS. LARKIN: You mentioned
3 that.
4 THE WITNESS (Bazinet): Right.
5 And we safely concluded that, out of 15
6 separate dispatch requests, we would have
7 been called on from ISO New England, we would
8 have satisfied all 15, but on two occasions
9 the 52 hours wouldn't have been sufficient to
10 last the entire dispatch request.
11 MS. LARKIN: Do you think you
12 should go back further in time to see how
13 cold it's been, you know, other weather other
14 years?
15 THE WITNESS (Bazinet): That's
16 over the last 25 years.
17 MS. LARKIN: Okay. So, when
18 you run out at 52 hours -- I thought it was
19 48. It's now 52, right, that you can run on?
20 THE WITNESS (Bazinet): It's
21 52. We've recently answered that in a
22 question as well.
23 MS. LARKIN: I'm sorry. So,
24 once you're through with the 52 hours on-site
25 storage, then you have to truck things in?

1 THE WITNESS (Bazinet): No.
2 We will either operate on gas or not at all.
3 MS. LARKIN: Oh, not at all.
4 Now, wait a minute, reliability means you
5 operate all the time.
6 THE WITNESS (Bazinet): So, as
7 I mentioned, if you look at one of the two
8 worst winters on record over the last 25
9 years when oil was called on, and for an
10 abnormal period of time relative to the prior
11 ten years, the facility would have been able
12 to satisfy all 15 dispatch requests and only
13 come up short on hours on two separate
14 occasions. We feel that's a reliable asset.
15 Furthermore, the market is
16 constantly changing, and today the same unit
17 that would have been called on to operate on
18 ULSD last year is no longer being called on
19 to operate on ULSD because there are a number
20 of LNG imports coming into the pipeline
21 system on the coastal boundaries outside of
22 Boston that have balanced and added pressure
23 to the system. And even on the cold snap
24 that we had about a week or two ago, all
25 gas-fired generators were operating on gas;

1 nobody was operating on oil.
2 MS. LARKIN: But gas
3 curtailment does happen in the winter so,
4 right, usually?
5 THE WITNESS (Bazinet): Gas
6 curtailment is possible during the winter,
7 correct.
8 MS. LARKIN: And you're
9 talking about the cold weather in the winter,
10 okay, and being able to operate. Okay.
11 So I just want to ask you
12 about the definition of the word "local."
13 You talk about a regional benefit of this
14 power plant, and you also talk about a local
15 benefit. How many miles is local? What do
16 you mean by local? What does local mean?
17 Massachusetts border?
18 THE WITNESS (Bazinet): You
19 have to maybe characterize your question a
20 little more specifically in terms of which
21 benefit you're referring to.
22 MS. LARKIN: Well, when I talk
23 about local, I can say that I mean like 15
24 miles, we might drive somewhere to dinner or
25 something, you know. I don't know what you

1 mean by local.
2 THE WITNESS (Bazinet): With
3 respect to what?
4 MR. SMALL: In other words, do
5 you have a specific --
6 MS. LARKIN: Well, you talk
7 about local benefits. I hear that all the
8 time, local benefits of this, that, and the
9 other thing. I just want to know what
10 "local" means.
11 MR. SMALL: Do you have a
12 specific reference?
13 MS. LARKIN: We could probably
14 go through this book and find the word
15 "local" a lot of times.
16 MS. LARKIN: Well, you're
17 saying that you just said earlier that we'll
18 be locally able to benefit from lower prices,
19 locally. What did you mean by that?
20 THE WITNESS (Bazinet): So
21 that statement would apply to all residents
22 of Connecticut, all residents of New England,
23 but local residents as well as regional
24 residents as well as --
25 MS. LARKIN: So local can be

1 pretty big. So what's your --
2 THE WITNESS (Bazinet): With
3 respect to ratepayer benefits, it can be
4 pretty big, correct.
5 MS. LARKIN: Now, when you
6 talk about rates, how does the ISO pool or
7 the pool, NEPOOL, do they take the highest
8 price, and then everybody shares that highest
9 price when the people bid; in other words,
10 how do you save money if they take the high
11 price?
12 THE WITNESS (Powers):
13 Danielle Powers with Concentric.
14 So the ISO stacks up all the
15 generators based on their demand in any
16 particular 15-minute interval. So whichever
17 generator clears in the stack last is what
18 all of the generators get paid, generally
19 speaking.
20 MS. LARKIN: So, when people
21 come in with prices, you're clearing a price;
22 am I right?
23 THE WITNESS (Powers): Right.
24 MS. LARKIN: So, if the three
25 of you were power plants and you were putting

1 in your -- what you can sell it for, and you
2 were the lowest, she was the medium, and you
3 were the highest, who would NEPOOL choose?
4 THE WITNESS (Powers):
5 Depending on the demand level, if he was the
6 last resource to meet demand, he would set
7 the price.
8 MS. LARKIN: What do you mean
9 by "last resource"?
10 THE WITNESS (Powers): So, if
11 you had -- say your demand was 100 megawatts,
12 and I had 40, she had 30, he had the next 30
13 stacked in price, he meets the 100 megawatt
14 demand, so he clears last. He's the last guy
15 clearing, so he would set the price for all
16 three of us.
17 MS. LARKIN: So does that mean
18 the bigger the plant, the more influence you
19 have?
20 THE WITNESS (Powers): No,
21 because ISO has a lot of rules around what we
22 call mitigation, which is making sure that
23 generators bid their marginal cost, which is
24 their variable cost, fuel and variable O&M,
25 and there are rules around what they call

1 reference levels in making sure that plants,
2 power plants' offers reflect those reference
3 levels.
4 MS. LARKIN: So how are we
5 assured -- as beneficiaries of the low
6 prices, how are we assured we're going to get
7 the low prices through this process?
8 THE WITNESS (Powers): So this
9 particular unit, when you take Connecticut
10 and you take New England in general, you're
11 stacking up a lot of plants. And you have
12 solar and wind and nuclear on the bottom, and
13 then you've got some coal, and then in the
14 middle you've got this flat stack of
15 combined-cycle resources, then you go kind of
16 up the stack with oil units. So what this
17 unit is doing is taking, if you're putting
18 something in the middle of that stack, you're
19 going to knock off the high guy. So he comes
20 off the stack, and he -- in some hours with a
21 set price. Now you're actually coming down
22 that supply stack, so your clearing price
23 will be less because you're putting a more
24 efficient resource in that supply stack.
25 MS. LARKIN: Does that

1 efficient resource mean that the owner of
2 that plant makes more money, is a more
3 profitable situation?
4 THE WITNESS (Powers): It
5 means that when they're dispatched, they're
6 dispatched based on their variable costs, so
7 they would have recovered their variable
8 costs, and then there are other pieces of the
9 market that they would have an opportunity to
10 receive compensation for their fixed costs.
11 So what we're talking about right now is the
12 energy market, and that's purely a variable
13 cost market.
14 MS. LARKIN: I understand.
15 Okay. All right. Thank you.
16 So I think I can say here that
17 I don't know whether it's fair or even polite
18 to say, but this is in closing, that bluntly
19 said --
20 MR. SMALL: I'm going to
21 object. This isn't the time for -- is this a
22 question?
23 MS. LARKIN: Okay. I'm fine.
24 No, this is a statement. I thank you very
25 much.

1 THE VICE CHAIRMAN: You'll
2 have your opportunity when it's time for you
3 to put on your own case.
4 MS. LARKIN: Sorry?
5 THE VICE CHAIRMAN: You'll
6 have an opportunity when you put on your own
7 case subsequently.
8 MS. LARKIN: Okay. Good.
9 Well, I thank you for allowing me to speak to
10 you today, and thank you for your answers to
11 the questions.
12 THE VICE CHAIRMAN: Thank you,
13 Ms. Larkin.
14 Next is Quassy Amusement Park.
15 (No response.)
16 THE VICE CHAIRMAN: The Oxford
17 Flying Club.
18 (No response.)
19 THE VICE CHAIRMAN: And
20 Mr. McCormack, I called on you before, and
21 you indicated at the break that you've
22 changed your mind, you do have questions, so
23 come forward.
24 WAYNE McCORMACK: My name is
25 Wayne McCormack. I live at 593 Putting Green

1 Lane in Oxford. And I just have a couple of
2 questions.
3 THE VICE CHAIRMAN: Go ahead.
4 CROSS-EXAMINATION
5 MR. McCORMACK: In some of the
6 responses earlier, Mr. Sellers referred to
7 the region a number of times, and I'm
8 wondering if he could define the region for
9 me, or does it vary by whether we're talking
10 about offsets or carbon credits, or is it the
11 same region?
12 THE WITNESS (Sellers): Yes,
13 it varies. When I was talking about
14 displaced emissions, the amount of net
15 reduction in emissions, that would be tied to
16 ISO New England since ISO New England
17 dispatch is a single grid.
18 MR. McCORMACK: So all of them
19 refer to ISO New England?
20 THE WITNESS (Sellers): No.
21 In the case of the carbon allowances, that's
22 the greenhouse gas initiative that covers a
23 number of northeastern states, and when I
24 talk about acid rain SO2 allowances, that's
25 basically the entire United States, and the

1 NOx allowances are basically for the
2 Northeast region.
3 MR. McCORMACK: Thank you.
4 Previously Marian Larkin referred to the two
5 weather balloons that were flown on January
6 15th at the site to indicate the visual
7 impact the plant might have. The lighted
8 plant and stacks and the noise, obviously,
9 could not be seen viewing those weather
10 balloons. Is there any way for CPV to
11 simulate the lighting conditions and the
12 sound conditions for a 48-hour period so the
13 local residents can experience that?
14 THE WITNESS (Gresock): There
15 is no way that I'm aware of that we could
16 simulate the lighted stacks or simulate the
17 noise environment, but as you know, the
18 noise, in particular, has been modeled in
19 association with the project, and it's very
20 easy using a lot of hand-held monitoring
21 devices to determine what the various sound
22 levels are like based upon other environments
23 you may be exposed to, and there are many
24 comparison charts, as well, that would
25 indicate what one might experience at

1 different decibels.
2 MR. McCORMACK: Do you have
3 any knowledge at all of a sound wall ever
4 being created around a facility?
5 THE WITNESS (Gresock): Sound
6 walls are one form of sound mitigation that
7 can be used, yes.
8 MR. McCORMACK: Is that a
9 possibility here?
10 THE WITNESS (Gresock): There
11 are a lot of -- there's a lot of balancing of
12 sound that occurs with the design. A sound
13 wall is one measure that might be considered.
14 MR. McCORMACK: The concern
15 would be that once the facility is in place
16 and the noise is found problematic to the
17 neighbors and the animal life in the area,
18 what can be done about it?
19 THE WITNESS (Bazinet): So
20 we're going to have an obligation to meet a
21 certain measure, and we fully intend to meet
22 that obligation. We're going to have to
23 demonstrate compliance with that measure as
24 well. How we do it, we've proposed a certain
25 set of measures in our noise analysis that

1 achieve compliance with that standard. And,
2 you know, if we can find more effective ways
3 of doing it, then we'll do that as well. I
4 think what Ms. Gresock was referring to as it
5 being a possibility, it's definitely a
6 possibility, so is every other noise measure
7 that we've listed in that exhibit. We're
8 going to look for the most effective way to
9 achieve compliance and demonstrate it at the
10 end of the day.

11 MR. McCORMACK: Demonstrate it
12 before construction or after construction?

13 THE WITNESS (Bazinet): We're
14 going to have to do both.

15 MR. McCORMACK: So the
16 neighbors would have the potential to ask for
17 noise mitigation after the fact and expect it
18 to be carried out?

19 THE WITNESS (Bazinet): If
20 we're not in compliance, absolutely.

21 MR. McCORMACK: Thank you.

22 You made reference to Exhibit
23 2J, the late-filing on the electrical rates.
24 I don't have that file with me. Could you
25 save me some trouble and tell me what your

1 results in a reduction of around \$31 per year
2 in the total electricity bill in 2024.

3 MR. McCORMACK: Thank you.
4 That's about what I calculated from my bill.
5 And I will say that doesn't impress me very
6 much, but that's my opinion. Thank you.
7 In reference to Marian Larkin's comments
8 about the size or the width of the smoke
9 stacks, I do have a simulated photograph of
10 the smoke stacks taken from my street. The
11 simulation was taken from the Athens plant
12 and superimposing it over a picture of the
13 weather balloons. I suspect you're going to
14 direct me to introduce that into evidence
15 rather than to show it to you.

16 THE VICE CHAIRMAN: You're
17 pretty astute about that.

18 MR. McCORMACK: Okay. So I
19 will be doing that then.

20 THE VICE CHAIRMAN: If I
21 weren't, Attorney Small would.

22 MR. SMALL: Correct,
23 Mr. Chairman.

24 MR. McCORMACK: One final
25 question. It's my impression -- I think I'm

1 findings were for individual or homeowner
2 savings?

3 THE WITNESS (Bodell): My name
4 is Tanya Bodell. I'm executive director of
5 ENERGYZT.

6 And what we did to calculate,
7 per the request of staff, on the impact of
8 the rates, we looked at 2024, which is pretty
9 much an average year during the 2018 to 2028
10 period of time with respect to anticipated
11 energy savings, we took the existing
12 Connecticut Light and Power bill that was on
13 their website, we escalated transmission and
14 distribution out to be a nominal number in
15 2024, and then we put our nominal savings as
16 a reduction. The anticipated savings -- so,
17 in 2024, total savings -- actually for the
18 period the total savings are expected to be
19 1.474 billion for the period under
20 examination for Connecticut alone, and that
21 translates into a residential bill reduction
22 in 2024, assuming a 700 kilowatt hour per
23 month usage -- everybody's use is different,
24 but that was the Connecticut average -- that
25 results in a reduction of -- it basically

1 right -- that it was you who hired the
2 University of Connecticut to do that economic
3 study on the area?

4 THE WITNESS (Bazinet): Yes,
5 that's correct.

6 MR. McCORMACK: Is the cost of
7 that study public information?

8 THE WITNESS (Bazinet): No, it
9 isn't.

10 MR. McCORMACK: Why is that?

11 THE WITNESS (Bazinet):
12 Because there's a contract between CPV
13 Towantic and UConn.

14 MR. McCORMACK: UConn is a
15 state institution, so shouldn't it be
16 available --

17 THE WITNESS (Bazinet): If
18 it's available through UConn measures, then
19 per your request, yeah, absolutely.

20 MR. McCORMACK: But you don't
21 care to share it with us?

22 THE WITNESS (Bazinet): No.

23 MR. McCORMACK: Okay. Thank
24 you very much. Thank you, sir.

25 THE VICE CHAIRMAN: Thank you.

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1 I've been through the list of
2 intervenors for cross-examination, and some
3 did not respond when I called.
4 Is there any intervenor who's
5 here now who has not had an opportunity to
6 cross-examine at this juncture here today?
7 (No response.)
8 THE VICE CHAIRMAN: If not,
9 we'll go off the record for a minute.
10 (Off-the-record discussion.)
11 THE VICE CHAIRMAN: My
12 inclination is to call it a day and hit the
13 road and go home. The problem we've run into
14 is we cross-examine, and then more
15 information comes in and we redo it again.
16 So, if we start today, more stuff is coming
17 in, primarily the stuff from Mr. Gustafson
18 who is fortunately with us now and will be
19 able to provide us with the answers to a
20 number of questions, we just have to redo it
21 again and we kind of spin our wheels. And I
22 know that Mr. Perrone has a number of
23 questions, but I think he's going to do them
24 by way of interrogatory, so we all can read
25 them and then, we'll all have them before us.

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1 And I guess the 24th is our next -- 11:00
2 a.m., on Tuesday, is it? Tuesday the 24th.
3 MR. SMALL: Mr. Chairman, just
4 for clarification, so the 24th will be
5 primarily staff and council member questions?
6 I see Ms. Bachman is nodding
7 her head.
8 MS. BACHMAN: Yes.
9 MR. SMALL: Thank you.
10 THE VICE CHAIRMAN: And if
11 there's time, I would assume that they will
12 move on to others.
13 So the Council announces that
14 it will continue the evidentiary portion of
15 this hearing in New Britain on Tuesday,
16 February 24, 2015, at 11:00 a.m.
17 Note that anyone who has not
18 become a party or intervenor but who desires
19 to make his or her views known to the
20 Council, may file a written statement with
21 the Council until the record closes.
22 Copies of this transcript of
23 the hearing will be filed at the Oxford and
24 Middlebury Town Clerk's Office.
25 Thank you for your

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1 participation. Drive carefully, and
2 hopefully you'll be home before the sun sets.
3 MR. SMALL: Thank you,
4 Mr. Chairman.
5 (Whereupon, the witnesses were
6 excused, and the above proceedings were
7 adjourned at 3:21 p.m.)
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1 CERTIFICATE
2 I hereby certify that the foregoing 180
3 pages are a complete and accurate
4 computer-aided transcription of my original
5 stenotype notes taken of the Connecticut
6 Siting Council Continued Public Hearing in
7 Re: DOCKET NO. 192B, CPV TOWANTIC, LLC,
8 MOTION TO REOPEN AND MODIFY THE JUNE 23, 1999
9 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY
10 AND PUBLIC NEED BASED ON CHANGED CONDITIONS
11 PURSUANT TO CONNECTICUT GENERAL STATUTES
12 §4-181A(B) FOR THE CONSTRUCTION, MAINTENANCE
13 AND OPERATION OF A 785 MW DUAL-FUEL COMBINE
14 CYCLE ELECTRIC GENERATING FACILITY LOCATED
15 NORTH OF THE PROKOP ROAD AND TOWANTIC HILL
16 ROAD INTERSECTION IN THE TOWN OF OXFORD,
17 CONNECTICUT, which was held before SENATOR
18 JAMES J. MURPHY, VICE CHAIRMAN, at the
19 Connecticut Siting Council, 10 Franklin
20 Square, New Britain, Connecticut, on
21 February 10, 2015.
22
23
24
25

Lisa L. Warner, L.S.R. 061
Court Reporter
UNITED REPORTERS, INC.
90 Brainard Road, Suite 103
Hartford, Connecticut 06114

1	I N D E X	
2	WITNESSES DEAN GUSTAFSON	
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3	LYNN GRESOCK	
	ANDREW BAZINET	
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12	Council Interrogatories,	
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13	Questions 1-5, 7-17, 19-21	
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14	II-B-13 CPV Towantic Second	377
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17	Northeast Corner of	
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18	b.) Temperature and velocity	
19	profile of stack exhaust	
20	d.) Location of water	
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21	e.) Boring test pit results	
22	f.) Analysis of how stormwater	
23	flows would impact stormwater	
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24	g.) Location of oil/water	
25	separator	

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2	h.) Flight pattern illustration	
3	j.) Cost savings on Connecticut	
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4	k.) Analysis of how load flows	
5	to/from Long Island affect	
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6	l.) Analysis of how ambient noise	
7	levels would be affected by	
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8	m.) Feasibility of water	
9	impoundment storage	
10	n.) Drainage flow maps	
11	o.) Power output data	
12	p.) Number of moles of water	
	produced when one mole of	
13	methane is burned	
14	q.) Dispersal of particulate	
	matter	
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