

Transcript of the Hearing of

Date: January 29, 2015

Volume: 2

Case: SITING COUNCIL - DOCKET NO. 192B

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UNITED REPORTERS, INC.

Phone:866-534-3383

Fax: 877-534-3383

Email: info@unitedreporters.com Internet: www.unitedreporters.com

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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 Combined 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, on Thursday, January 29, 2015, beginning at 11:00 a.m.

Held Before:

ROBERT STEIN, Chairman

	Page 111		Page 113
1	Appearances:	1	THE CHAIRMAN: Good morning,
2	Council Members:	2	everybody. I'd like to call to order the
3	SENATOR JAMES J. MURPHY, JR.,	3	meeting of the Connecticut Siting Council,
4	Vice Chairman	4	Docket Number 192B, today, Thursday, January
5	DR. BARBARA C. BELL	5	29, 2015, approximately 11:05. My name is
6		6	Robin Stein. I'm Chairman of the Connecticut
7	LARRY LEVESQUE, PURA Designee ROBERT HANNON, DEEP Designee	7	Siting Council.
8	PHILIP T. ASHTON	8	-
9	DR. MICHAEL W. KLEMENS	9	This hearing is held pursuant to the provisions of Title 16 of the
10	DAVID LYNCH	10	Connecticut General Statutes and of the
11	DAVIDLINCH	11	Uniform Administrative Procedure Act upon a
12	Council Staff:	12	-
13		13	motion to reopen the final decision of certificate of environmental compatibility
14	MELANIE BACHMAN, ESQ., Executive Director and	14	and public need held by CPV Towantic, LLC,
15	Staff Attorney	15	for the construction, maintenance and
16	•	16	operation of a 785-megawatt dual-fuel
17	MICHAEL PERRONE Siting Applyet	17	combined cycle electric generating facility,
18	Siting Analyst	18	located north of Prokop Road and Towantic
19	For CPV Towantic, LLC:	19	Hill Road intersection in the town of Oxford,
20	BROWN RUDNICK, LLP	20	Connecticut.
21	185 Asylum Street	21	On November 13, 2014, the
22	Hartford, Connecticut 06103	22	Council, pursuant to a request filed by PV
23	By: PHILIP M. SMALL, ESQ.	23	P CPV Towantic, LLC, and the provisions of
24	FRANCA L. DeROSA, ESQ	24	the Connecticut General Statutes Section
25	TRAINCA L. DCROSA, ESQ	25	4-181a, Subsection (B), reopened the final
23		23	4-101a, Subsection (B), reopered the final
	Page 112		Page 114
1	Appearances (Cont'd.):	1	decision rendered in this docket.
2	For The Town of Middlebury:	2	On June 23, 1999, the Council
3	LAW FIRM OF STEPHEN L. SAVARESE	3	had considered and approved granting a
4	103 South Main Street	4	certificate to the to the applicant's
5	Middlebury, Connecticut 06470	5	predecessor for the construction
6	By: STEPHEN SAVARESE, ESQ.	6	A VOICE: I'm sorry. We can't
7		7	hear back here.
8	Also present for the Town of Middlebury:	8	THE CHAIRMAN: We're working
9	RAYMOND PIETRORAZIO	9	on getting the mics mics fixed, but if
10		10	you there are there are a couple seats
11	For the Connecticut Light & Power	11	closer. So you can I see some seats. So
12	Company:	12	if those in the back want to move a little
13	NORTHEAST UTILITIES SERVICE COMPANY	13	bit closer, feel free, but
14	107 Selden Street	14	So, again, to repeat and
15	Berlin, Connecticut 06037	15	this was all stated at the at the public
16	By: JOHN R. MORISSETTE, ESQ.	16	hearing that was held, so a lot of this is
17	For the Town of Oxford:	17 18	what you already heard.
18 19	CONDON & SAVITT, PC	19	Again, on June 23, 1999, the Council considered and approved granting a
20	223 Wakelee Avenue	20	certificate to the applicant's predecessor
20	Ansonia, Connecticut 06401	21	for the construction, maintenance and
22	By: KEVIN CONDON, ESQ.	22	operation of a 512-megawatt natural gas-fired
23	by. KEVIN CONDON, ESQ.	23	combined-cycle facility located at the the
24		24	same site in the Town of Oxford.
25		25	On March 1, 2001, the Council
I			on march 1, 2001, the council

2 (Pages 111 to 114)

	Page 115		Page 117
-			
1	considered and approved a final site plan for	1	Again, our executive director
2	the facility. The certificate for the	2	may wish to comment.
4	facility is scheduled to expire on June 1,	3 4	MS. BACHMAN: Thank you,
5	2016.	5	Mr. Chairman. As as we've had the
6	A verbatim transcript will be made of this hearing and deposited at the	6	
7	Town Clerk's Office in the Oxford and	7	experience with the wind petitions, it is clear we do not have any authority to issue a
8	Middlebury Town Halls for the convenience of	8	moratorium, and therefore, I recommend the
9	the public.	9	request be denied.
10	We will proceed in accordance	10	MR. ASHTON: So moved.
11	with the prepared agenda, copies of which are	11	DR. KLEMENS: Second.
12	available here.	12	THE CHAIRMAN: A motion, a
13	The Council received a request	13	second.
14	from Middlebury Land Trust for a 90-day	14	Discussion?
15	extension to provide expert testimony, dated	15	All those in favor signify by
16	January 21, 2015, and a request from the	16	saying aye.
17	Westover School for a 90-day extension, dated	17	THE COUNCIL: Aye.
18	January 23, 2015.	18	THE CHAIRMAN: Opposed?
19	I will ask our staff attorney	19	Abstentions?
20	and executive director, Attorney Bachman to	20	The motion carries.
21	comment.	21	The Council has also added 15
22	MS. BACHMAN: Thank you,	22	items to the administrative notice list,
23	Mr. Chairman.	23	which is which are listed as Roman numeral
24	We do have a schedule for	24	ID, items 17 through 31.
25	additional prefiled testimony and exhibits to	25	Does any party or intervenor
	Page 116		
	1430 110		Page 118
1		1	Page 118
1	be submitted on or before February 3rd.	1 2	have any objection to the administrative
2	be submitted on or before February 3rd. However, we don't anticipate completing the	2	have any objection to the administrative notice items?
2 3	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have	2 3	have any objection to the administrative notice items? (No response.)
2 3 4	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March.	2 3 4	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and
2 3	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March. I would recommend that we deny	2 3	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and seeing none, they are admitted.
2 3 4 5	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March. I would recommend that we deny this request, in part, as it relates to a	2 3 4 5	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and seeing none, they are admitted. We now begin with appearance
2 3 4 5 6	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March. I would recommend that we deny	2 3 4 5 6	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and seeing none, they are admitted.
2 3 4 5 6 7 8 9	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March. I would recommend that we deny this request, in part, as it relates to a 90-day extension, but to grant it, in part,	2 3 4 5 6 7	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and seeing none, they are admitted. We now begin with appearance of the certificate holder, CPV Towantic, LLC,
2 3 4 5 6 7 8 9	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March. I would recommend that we deny this request, in part, as it relates to a 90-day extension, but to grant it, in part, as it relates to a 30-day extension to allow for additional prefiled testimony and exhibits to be submitted on or before	2 3 4 5 6 7 8 9	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and seeing none, they are admitted. We now begin with appearance of the certificate holder, CPV Towantic, LLC, to swear in I guess they have additional witnesses. Attorney Small.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	be submitted on or before February 3rd. However, we don't anticipate completing the hearing by the end of February and have scheduled additional hearing dates for March. I would recommend that we deny this request, in part, as it relates to a 90-day extension, but to grant it, in part, as it relates to a 30-day extension to allow for additional prefiled testimony and exhibits to be submitted on or before March 3rd. MR. ASHTON: So moved. DR. BELL: Second. THE CHAIRMAN: I have a motion. We have a second. Any discussion? Okay. All those in favor of a 30-day extension, signify it by saying aye. THE COUNCIL: Aye. THE CHAIRMAN: Opposed? Abstention? The motion carries.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	have any objection to the administrative notice items? (No response.) THE CHAIRMAN: Hearing and seeing none, they are admitted. We now begin with appearance of the certificate holder, CPV Towantic, LLC, to swear in I guess they have additional witnesses. Attorney Small. MR. SMALL: Good morning, Mr. Chairman, members of the Council, staff. We have two witnesses to be sworn in, Tanya Bodell and Jon Donovan. If they would please stand. JON DONOVAN, TANYA BODELL, called as witnesses, being first duly sworn by Ms. Bachman, were examined and testified on their oaths as follows: THE REPORTER: Ms. Bodell, could you spell your name, please.

3 (Pages 115 to 118)

	Page 119		Page 121
1	DANIELLE POWERS,	1	THE WITNESS (Jones): No.
2	ANDREW J. BAZINET,	2	THE WITNESS (Bazinet): No.
3	D. LYNN GRESOCK,	3	MR. SMALL: Okay.
4	FREDERICK SELLARS,	4	And do you each adopt them as
5	CURTIS C. JONES,	5	your testimony here today?
6	having been previously duly sworn, were	6	THE WITNESS (Bazinet): Yes.
7	examined and testified further on their	7	THE WITNESS (Gresock): I do.
8	oaths as follows:	8	THE WITNESS (Donovan): Yes.
9	MR. SMALL: And starting with	9	THE WITNESS (Jones): Yes.
10	you, Ms. Bodell, would you please state your	10	MR. SMALL: Mr. Donovan,
11	position and affiliation.	11	Exhibit 11 is your resume. Was that prepared
12	THE WITNESS (Bodell): Yes.	12	by you or under your direction?
13	My name is Tayna Bodell. I am the Executive	13	THE WITNESS (Donovan): Yes,
14	Director of Energyzt, which is an energy	14	it was.
15	business advisory firm.	15	MR. SMALL: And is it true and
16	MR. SMALL: And please spell	16	correct to the best of your knowledge and
17	that?	17	belief?
18	THE WITNESS (Bodell):	18	THE WITNESS (Donovan): It is.
19	Energyzt is spelled E-n-e-r-g-y-z-t.	19	MR. SMALL: And do you adopt
20	MR. SMALL: Thank you.	20	that as your testimony here today?
21	And, Mr. Donovan, would also	21	THE WITNESS (Donovan): Yes, I
22	state your position and affiliation?	22	do.
23	THE WITNESS (Donovan): My	23	MR. SMALL: Thank you.
24	name is John Donovan. I'm vice president of	24	I believe, Mr. Chairman, I
25	engineering and construction at Competitive	25	believe that's it for the additional
25	engineering and construction at Competitive	25	believe that's it for the additional
	Page 120		
	10.90 110		Page 122
1	Power Ventures.	1	Page 122 exhibits.
1 2		1 2	
	Power Ventures.		exhibits.
2	Power Ventures. MR. SMALL: Thank you.	2	exhibits. THE CHAIRMAN: Does any party
2	Power Ventures. MR. SMALL: Thank you. We have, Mr. Chair we have	2 3	exhibits. THE CHAIRMAN: Does any party intervenor object to the admission of the new
2 3 4	Power Ventures. MR. SMALL: Thank you. We have, Mr. Chair we have a few additional exhibits, I believe. You	2 3 4	exhibits. THE CHAIRMAN: Does any party intervenor object to the admission of the new exhibits?
2 3 4 5	Power Ventures. MR. SMALL: Thank you. We have, Mr. Chair we have a few additional exhibits, I believe. You want us to introduce those now?	2 3 4 5	exhibits. THE CHAIRMAN: Does any party intervenor object to the admission of the new exhibits? (No response.)
2 3 4 5 6	Power Ventures. MR. SMALL: Thank you. We have, Mr. Chair we have a few additional exhibits, I believe. You want us to introduce those now? THE CHAIRMAN: Yes. Would you	2 3 4 5 6 7 8	exhibits. THE CHAIRMAN: Does any party intervenor object to the admission of the new exhibits? (No response.) THE CHAIRMAN: Hearing and seeing none, the exhibits are now admitted. (Exhibits II-B-1 through
2 3 4 5 6 7 8	Power Ventures. MR. SMALL: Thank you. We have, Mr. Chair we have a few additional exhibits, I believe. You want us to introduce those now? THE CHAIRMAN: Yes. Would you please go through the verification. MR. SMALL: Okay. We will do that.	2 3 4 5 6 7 8	exhibits. THE CHAIRMAN: Does any party intervenor object to the admission of the new exhibits? (No response.) THE CHAIRMAN: Hearing and seeing none, the exhibits are now admitted. (Exhibits II-B-1 through Exhibits II-B-10: Received in evidence -
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4 (Pages 119 to 122)

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and height. The -- all of the structures that penetrate the VFR horizontal surface were -- were determined to require additional review in order to determine its effect on the air navigation.

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exhibit.

MR. PERRONE: Did any other structures such as the water tanks, require those letters?

THE WITNESS (Gresock): There were a series of filings that were made. All of the features of the project that -- that were above the height of that surface were filed for, and all of them were issued the presumed hazard notifications to allow for that additional review.

MR. PERRONE: It appears that one of the letters for the administrative building may be missing. I see one for the southwest corner, the northwest corner, and two of them for the southeast corner. Would you be able to check on that?

THE WITNESS (Gresock): We'll check on that. Thanks.

MR. SMALL: And if it's missing, we will file it is a Late-Filed Page 125

It's hard to estimate height, but I -- I would say something more like 70, 75 feet seems -- seems more accurate in -- in the immediate vicinity. It varies of course.

MR. PERRONE: Sure.

Regarding the seasonal visibility, could you explain how the bare earth model works? For example, does that only consider variations in ground elevation and neglects vegetation?

THE WITNESS (Gresock): That's correct. The bare earth model would account for topography and terrain, but it wouldn't account for vegetation. It also would not account for any structures that would block line of sight.

MR. PERRONE: And I understand photographs of balloon visibility were provided at various spots on the viewshed map. How would those photos indicate that the analysis was conservative, because it appears that the locations chosen seem to be in the seasonal visibility area, but then some of the photos you see views above the tree line where it appears year round.

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MR. PERRONE: Thank you. Regarding the public notice of an additional FAA study, dated January 21, 2015, it says "Stack 1" on it. Does that only include Stack 1 or does it include other structures?

THE WITNESS (Gresock): All of the structures were included in -- in that circularization and the public notice process.

MR. PERRONE: Now I'll turn to visibility questions.

I understand, in your visibility analysis, an average tree height of 50 feet was used to be conservative. But, in your opinion, what would be a rough estimate of the average tree height?

THE WITNESS (Gresock): Tree heights vary in -- in the region, of course. But as we were out on the site flying the balloons at stack top height, which is 150 feet above the finished ground elevation, it seemed as though trees would be much taller than 50 feet in general.

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THE WITNESS (Gresock): What we tried to do is during the balloon flight is travel along all of the nearby roadways to see if there were locations where the balloons would be visible. We believe that the lack of visibility in most locations is reflecting a lot more obstructing vegetation than the model would predict.

We find that a lot of the roads in the vicinity have tree lines right along the roads that would tend to block the line of sight. So we believe it is showing that it's conservative because there are many fewer places where the balloons were visible than the model would have expected, but those were intended to be representative and reflective and just a point of indicating what the -- what the views would be.

MR. PERRONE: Now, turning to Late-File Exhibit 2-I regarding retirements, specifically, the SNL generation supply curve.

Is it CPV Towantic's position that this basically shows the dispatch of the plant? It basically would be performed in

5 (Pages 123 to 126)

	Page 127		Page 129
1	that order, starting with the plant more to	1	investigations did not reveal any flora or
2	the left?	2	fauna listed as federal or state endangered,
3	THE WITNESS (Bazinet): Yes,	3	threatened or special concerns.
4	that's correct.	4	My question is: Did Tetra do
5	MR. PERRONE: Thank you.	5	field investigations recent well, before
6	That's all I have.	6	the Tetra report, or does the report refer to
7	THE CHAIRMAN: We'll now	7	investigations done for the original
8	continue with the cross-examination by	8	proposal, or years ago, 15 years ago? Or are
9	members of the Council.	9	you referring to consultation with the DEEP?
10	Dr. Bell?	10	Or what does that did those field
11	DR. BELL: Thank you,	11	investigations refer to exactly?
12	Mr. Chair.	12	MR. SMALL: Dr. Bell,
13	Continuing along the line of	13	that's that Mr. Gustafson is probably
14	Mr. Perrone's question on visibility, are	14	the best witness for that. As you know, he's
15	all were all the cited roads that you	15	not going to he's not available. We're
16	traveled, which you report in Exhibit 2-E,	16	hoping he's available for February 10th. So
17	late-filed, starting with Towantic Hill Road,	17	could we defer that question for him?
18	Prokop Hill Road, and so forth, are those all	18	Because he did the honest
19	marked on Figure 1?	19	answer, he did and Ms. Gresock explained
20	THE WITNESS (Gresock): Yes.	20	he did the field work.
21	Figure 1 illustrates, in yellow, the roads	21	THE WITNESS (Gresock):
22	that Tetra Tech drove on in order to view	22	That that's correct. And under my
23	towards the site to determine whether the	23	direction, and included in the Tetra Tech
24	balloons could be seen.	24	report are are documents from All Points
25	DR. BELL: I see. So they're	25	Technology Corp., and and they are the
	Page 128		Page 130
1		1	
1 2	not named, but they're indicated in yellow?	1 2	ones that went onto the site and and did
2	not named, but they're indicated in yellow? A few of them are named, but not all of them?	2	ones that went onto the site and and did the more recent examination of whether those
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6 (Pages 127 to 130)

Page 131 Page 133 1 1 construction, procurement, et cetera. The first one that you 2 2 So you file all that mentioned is AIM. We know about that one. 3 3 information with your associated That's mainly sponsored by the LDCs. And 4 qualification package, and it's the ISO's 4 they made a -- they suggested that they could 5 determination whether or not they think 5 do even more than what they're doing, but 6 6 you'll be there in time to meet the capacity that was turned down. So we understand that. 7 commitment period, beginning June 1, 2018, in 7 The Tennessee project, you 8 8 note, is already fully subscribed. So now we this case. 9 DR. BELL: I -- I see. 9 get to the one that I'm going to ask about 10 10 So that -- in that because I'm a little bit confused. You -- it 11 11 qualification process, you did or did not seems to be that you're saying there are two 12 include the extended deadline that you're 12 parts to the third one. One is expanding the asking for in terms of construction? 13 13 Algonquin Gas Transmission Pipeline and the 14 14 THE WITNESS (Bazinet): We Maritimes and Northeast pipeline. 15 15 did. We noted that we would be filing Now, is the first one that you 16 16 applications with the Siting Council, the mentioned, the -- expanding the Algonquin Gas 17 Connecticut DEEP, noting that changes would 17 Transmission Pipeline, wouldn't that be just 18 18 be required from the existing certificate to the same as the AIM project which Spectra is 19 implement the new design. And that -- that 19 doing? 20 process was expected to unfold over the --20 THE WITNESS (Bazinet): So the 21 over a period of 6 months or the 180 days, 21 AIM project is a project that is moving 22 that short a timeline. 22 forward, received its, I believe, final 23 DR. BELL: But my question is 23 environmental impact statement just recently 24 the 200 and -- the 2019 extension that you're 24 from FERC. But they have a -- a separate 25 looking for? 25 project in its planning stages, as well, Page 132 Page 134 1 THE WITNESS (Bazinet): So the 1 called "The Atlantic Bridge Project," which 2 June 1, 2019, extension is contemplating that 2 would be exactly very similar to AIM in that 3 the project doesn't move forward in FCA9. 3 it wouldn't be a complete rebuild or 4 And in the event that the project -- I'm 4 anything, but it's incremental improvements to their system to support additional 5 sorry -- and for that reason we would still 5 б like to pursue the project, continue the 6 capacity on -- on their system. 7 permitting process and move it forward in 7 DR. BELL: Is it through 8 8 FCA-10, which would be a June 1, 2019, Connecticut? 9 9 delivery date. THE WITNESS (Bazinet): It 10 DR. BELL: So then you 10 would be all along the Algonquin Interstate 11 would -- you'd have to qualify separately for 11 Pipeline System, which runs from Lambertville 12 FCA10? 12 all the way up to the Maritimes 13 13 THE WITNESS (Bazinet): We --Interconnection in Northeastern Mass. 14 we would have to reenter the qualification 14 DR. BELL: But so far they 15 15 process, that's correct. haven't filed with FERC for that? 16 16 DR. BELL: Thank you. THE WITNESS (Bazinet): Not 17 My next questions have to do 17 that I'm aware of, no. 18 with the CEA report. And I'm going to pick 18 DR. BELL: And would that 19 19 up on Mr. Ashton's questions from the last connect with the Maritimes and -- and 20 hearing when he was questioning you about the 20 Northeast Pipeline or -- why are they 21 gas availability. 21 mentioned in the same breath in this report on page 16? 22 On page 16 of the report, you 22 23 23 are -- you refer to certain projects that (Pause.) 24 are, you say, are advancing to increase the 24 THE WITNESS (Bazinet): I'm 25 gas supply into Connecticut. 25 sorry. I -- I understand the question now.

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•	137
1 The Maritimes and Northeast 1 Connecticut. And capacity is, by definition	on,
2 Pipeline expansion, along with the AGT 2 a regional product in ISO New England.	And
3 expansion, is something that's even more 3 due to the fact that Connecticut is an	
4 preliminary than the Atlantic Bridge. 4 import-constrained zone, if the rest of the	
5 That that was a joint venture that was 5 pool, for example, is short of capacity, the	en
6 announced amongst Northeast Utilities and 6 Connecticut, NEMA Northeastern	
7 Spectra Corporation, I believe, in the third 7 Massachusetts excuse me and	
8 quarter of 2014, or the fourth quarter of 8 southeastern Mass and Rhode Island for the	his
9 2014. 9 coming off, it would all be deemed short of	of
10 The the status of that 10 capacity as well; in other words, those	
project, we're we're not sure where that 11 import-constrained zones can never settle	
12 sits at this point. 12 below the rest of the pool because of their	r
DR. BELL: Thank you. 13 designation as a import-constrained zone.	
My next question on the report 14 So while it's true that excess	
15 is: Are you familiar with the most recent 15 capacity may exist within the state of	
draft of the state's Integrated Resource Plan 16 Connecticut, the region being short also	
17 which came out last month? 17 causes pricing and Connecticut to be	
18 THE WITNESS (Bazinet): Yes. 18 effectively deemed short.	
19 DR. BELL: And have you 19 THE CHAIRMAN: But if I can	1
submitted comments on it during the comment 20 interject. I think that runs counter to your	
21 period? 21 arguments which say the problem is more	
22 THE WITNESS (Bazinet): The 22 Connecticut, and Connecticut is where we	e need
we will be submitting comments. They're due 23 to develop more capacity.	
by February 11th, I believe. 24 THE WITNESS (Bazinet): So	
25 DR. BELL: And can you explain 25 there's really two two items at play here	e.
Page 136 Page	138
Page 136 Page	
1 why your version of the future picture for 1 We we believe the region needs new	v
 why your version of the future picture for energy in Connecticut differs from the IRP's We we believe the region needs new capacity, as well as Connecticut, and t 	v hat's
why your version of the future picture for energy in Connecticut differs from the IRP's energy in Connecticut differs from the IRP's version? We we believe the region needs new capacity, as well as Connecticut, and to because the State of Connecticut is rely	v hat's ying
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8 (Pages 135 to 138)

Page 139 Page 141 1 1 in abeyance for a minute. At one point in the CEA 2 2 But I will pursue your answer, Report, it's argued that transmission 3 3 your argument, and simply ask you: Would solutions take as much as five years to 4 your argument still apply after the 4 implement. You outline to Docket 272 and 5 completion of the first NEEWS project, which 5 Docket 217, which were the Plumtree to 6 б ups Connecticut's import capability, and Norwalk and the Middletown to Norwalk 7 7 after the incorporation of the Lake Road gas projects some time ago. And you -- you -- so 8 8 you sketch with those and you say those took plant into the Connecticut supply picture, 9 which it hasn't been, until the second NEEWS 9 five years, whereas new generations, a new 10 10 project that we approved? generation solution, such as the proposed CPV 11 THE WITNESS (Bazinet): Yes. 11 project, can happen much faster. 12 So while Connecticut's local sourcing 12 But my question is: Isn't 13 requirement will be met and will be enhanced 13 2014 to 2019 also five years? 14 14 THE WITNESS (Powers): You by the presence of that project, it doesn't 15 change the fact that the region is still 15 know, projects vary in the time they take to 16 short of capacity, and as a result, 16 get built. They can -- generation, in some 17 Connecticut is going to feel the same price 17 cases, can take as long as transmission. In 18 impacts of that shortage. 18 this case, you have a resource that's already 19 DR. BELL: I'm not contesting 19 near infrastructure and ready to be built. 20 that the region is short of capacity. I 20 So it -- you know, it's --21 think -- that was never my question. My 21 it's an open-ended question as to whether or 22 question simply had to do with Connecticut, 22 not transmission would take longer in this 23 and I thought you answered it with respect 23 case. Connecticut has made great strides in 24 only to Connecticut. But now, I'm asking the 24 getting transmission projects built. 25 question still with respect to Connecticut. 25 The most recent ISO New Page 140 Page 142 1 Is -- is it -- does ISO consider Connecticut 1 England study on local needs in Connecticut 2 import restrained with the incorporation of 2 show that there's still additional 3 Lake Road into the -- into our electrical 3 transmission that needs to get built that 4 picture, our state electrical picture, which 4 hasn't even been designed yet or proposed. 5 it hasn't been before, and also with the 5 THE CHAIRMAN: I can't -- I б improvements from the NEEWS project which 6 can't resist, though, interjecting that the 7 would increase import and export limits? 7 original project was approved around 2000, 8 THE WITNESS (Bazinet): Yes. 8 and 15 years later still hasn't been built. 9 DR. BELL: That's ISO's 9 So just -- I don't really know 10 10 if that requires a response, if you want to, position? 11 THE WITNESS (Bazinet): 11 but that certainly flies in the -- sort of 12 That -- that's correct. The incorporation of 12 counter to your argument about how fast these the NEEWS project was felt as of, I believe, 13 13 projects move forward. 14 2017. That will be felt as of 2017, so 14 THE WITNESS (Bazinet): So --15 15 that -- that Interstate Reliability Project, so I think -- I think what the -- the 16 16 five-year cycles are referring to is the the segment of the NEEWS that you're 17 referring to that incorporates Lake Road into 17 completion of development and planning. And 18 18 in this particular case, this project has Connecticut, is deemed to be in effect as of 19 19 that date. So, yes, the answer is yes. been in the planning stages for quite some 20 DR. BELL: Now, I'd like to go 20 time, but it's been ready for construction 21 to transmission because you mention that --21 for quite some time but for market factors 22 well, because the quotation that I just read 22 that have prohibited that. 23 23 from the IRP mentions that Connecticut has The impetus to move the 24 24 project forward now is based on a market made investments in transmission to improve 25 the flexibility of its own supply picture. 25 signal, a pricing signal, that there is need

9 (Pages 139 to 142)

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for new generation in ISO New England. And assuming this process is resolved in the time frame that we projected on our schedule, the implementation of the project will take -take place well within the five-year time frame.

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DR. BELL: Thank you.

We'll move to a different question. On page 22, you're talking about their removal of the -- or not -- you're talking about often reviewed trigger prices, and in that context, you're talking about certain resources that would or would not be considered in the -- to -- to be exempted from certain parts of the ISO market and very complicated, but my question is quite simple.

You mention "resources with state-mandated contract built pursuant to a state directive." That's a quote from what you have on page -- the type of resource you're referring to on page 22. Can you give us a couple of examples of such resources just so we understand? What are these resources that are -- are receiving out-of-market inputs that would -- are

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in Connecticut, one or two, could you give me those examples?

THE WITNESS (Powers): We can -- we can follow up with some specific names of facilities. But there were some from Project 150, I believe, in the past, from Connecticut efforts to get generation built and signed contracts with utilities.

Kleen Energy, for example, had a contract for the output of the facility, and they -- they bid into the market without an exemption.

DR. BELL: And so effectively, in -- in -- well, have you -- do you have another example?

MR. SMALL: Dr. Bell, excuse me. On page 6 of our petition, there's several plants listed, Kleen Energy being one, Waterbury Generation, the two GenConn projects, and the SCG New Haven Harbor Peaker. Those were -- those were examples that we listed. And then, Ms. Powers also mentioned the Project 150 as well.

So there -- there are a number of them that the Council should be -- you

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considered not appropriate to exempt from -from the ISO rule?

THE WITNESS (Powers): This -this particular facet of the market where there's no exempt -- exemption stems from an issue down in PJM, where there were state efforts to get generation built, and they signed long-term contracts. Those generation assets actually bid into the market at a zero floor price.

So what -- what this is -this is designed to do is say, regardless of whether you have a contract for the output of the power, you still need to bid in in accordance with the rules of every other generator, regardless of whether you have someone buying the output.

DR. BELL: I understand that this came out of a court case in PJM. My question is: Is there an example in Connecticut of a resource that was built with state-mandated contracts pursuant to a state directive that bid in at a zero or low market price on the basis of that state-mandated contract and could you -- if there were any

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know, has had lots of experience with. DR. BELL: Okay.

And so you're saying, under this new market rule, that they would not be required -- they would not be allowed to bid in at a low price?

THE WITNESS (Powers): That's correct.

DR. BELL: And what price would they be required to build -- to bid in at, sort of, you know, just generically?

THE WITNESS (Bazinet): So that's subject to a unit specific analysis, and that -- that -- there's a threshold set by the Internal Market Monitor for ISO New England at which a review process begins.

So assuming they would -- a specific resource, whether it's combustion turbine technology or combined cycle -- cycle technology, would elect or would like to bid below a certain price threshold, as set by ISO New England, the internal market -market monitor for ISO New -- New England would need to review that bid and -- yeah -and -- and they would need to approve that.

10 (Pages 143 to 146)

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As an example, that -- for combustion turbine technology, that limit is now roughly -- I think it's, like, \$13 and change per kilowatt month. So anything below that would be subject to review by the Internal Market Monitor. For combined cycle technology, that set at \$8.87 cents per kilowatt month -- I'm sorry -- for new resources.

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DR. BELL: All right. Thank you. I understand that.

Back to the report on -- on another part of it. On pages 18 to 25 are a section of the report where -- that -- that describes that the existing fleet of generators in New England isn't performing up to par. And you quote, on page -- on one of those pages -- an ISO white paper saying that, quote, On average, New England's non-hydro plants delivered less than 60 percent of the additional power required by ISO.

In sum, at times of greatest need, many resources are delivering far below the performance ability represented in their

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capacity problem in New England be solved by getting the existing generation to perform at the level of a hundred percent of their claims in the forward capacity market, or perhaps just up to 84 percent, which is what -- which is the level of delivery that you say, on page 33, has been accomplished by demand response resources?

THE WITNESS (Powers): I think there are some things they can do to improve. I think there's -- there's some improvement in maintenance practices and things like that. There are just some realities with some of the generators that we have in existence today. They're in the 40- to 60-year-old range. The technology just is not -- it's -- it's old technology that's not capable of being fast-start.

You've got a lot of nuclear units. You've got a lot of coal units, older oil units. And regardless of how robust they make their maintenance practices, the design of those units is not such that you can make them quick-start.

They also have realities in

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supply offers.

MR. SMALL: Just for reference, that's on page 25 of the Concentric Energy Report.

DR. BELL: Thank you.

The suggestion is that these resources can improve by vary -- in various ways, among others, and those are listed on -- also on page 25. One is by upgrading to dual-fuel capability, signing firm gas contracts, adding fast-start capabilities, or just improving their maintenance and staff practices. So those are four examples of what their existing resources could do.

So, basically, these pages, 18 to 25, which ends with this -- in this culmination of what ISO charged them with, basically says that the existing generators in New England can do a lot better with what they've got. And, arguably, the new market rules have been put in place to reward them for doing better. That's the price signal -one of the price signals that they're getting with the new market rules.

My question is: Why can't the

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terms of their fuel. We had frozen coal piles. We had people running out of oil because they have -- they only have a certain amount in their tanks.

So there -- there are things you can do to improve, but there are just realities with the existing generation fleet that you can't overcome with -- with improving processes.

DR. BELL: Well, we have some experience in Connecticut, for instance, with generators that can easily go back -- well, maybe not too easily -- but with some expense can go back to do dual-fuel capability, which they all -- gas plants which all have that capability, but then came to us and asked to have relief from switching back to oil. That could be accomplished with investment.

You talk about frozen coal piles. With investment, coal -- even coal piles -- and we don't have very much coal in Connecticut, so we shouldn't even be talking about this really. So maybe we should just leave that aside.

But there -- there are plants

11 (Pages 147 to 150)

Page 151 Page 153 1 1 year. And that's just something they can't that have, in Connecticut, built peakers in 2 2 place of old coal fired originally, maybe, or resolve by upgrading the unit. 3 3 -- then oil-fired units, like, Middletown has They could, as you noted, replace units. But in that instance, it 4 built peakers, and so forth. So I'm -- I'm 4 5 hearing what you say about the, sort of, 5 would be effectively building a new plant as 6 physical limitations of what they can do, but 6 we're recommending here today. 7 with investment, they can actually invest and 7 The -- the Towantic Power 8 create new -- they can put in new engines. 8 Plant would be the most efficient unit in New 9 They can create new opportunities. 9 England, based on its design criteria, and 10 10 So I'm still not quite would be, on average, an overperformer in 11 11 understanding why the existing generators, if this new regime. 12 given a correct signal, which they certainly 12 DR. BELL: Thank you. 13 are being given now, couldn't -- if they're 13 I just have one more question 14 14 only at 60 percent, couldn't really ramp up along these lines. I understand that 15 their performance quite a bit. 15 dual-fuel capability is important in the THE WITNESS (Bazinet): So 16 16 picture that we're in in New England. But in 17 17 there -- there's very little that a plant, an a -- in an even larger picture with regard to old oil-fired steam boiler can do to 18 18 seasons or gas availability at the moment, or 19 reconcile its performance with the Pay for 19 other issues that have to do with dual-fuel 20 Performance Program being implemented by ISO 20 capability, we have New England that's 21 New England. There's a couple reasons for 21 between -- somewhere between 40 percent and 22 that. 22 50 percent dependent on natural gas for its 23 The projects that they would 23 electricity. And we have Connecticut that's 24 need to implement are extremely capital 24 somewhere between 30 percent and 40 percent 25 intensive, and there is no definitive cost 25 dependent, depending on what you count in and Page 152 Page 154 1 recovery mechanism for those capital programs 1 so forth, but I think those ranges or --2 that they would need to implement. There --2 those are -- you mentioned ranges like that 3 there's a Pay for Performance Program which 3 in -- in the reports, and I think those are 4 has penalties as well as incentives. 4 fair ranges. 5 That -- the nature of that 5 And these -- this amount of 6 program is that, in these scarcity events 6 dependency, particularly the larger amount of 7 they project, 20 to 40 hours a year there are 7 dependency in New England, which is where 8 scarcity events. They implement a --8 Towantic is really operating, has become a 9 9 incentive to the tune of somewhere between problem for a great many people who are 10 2,000 and 5,400 dollars per megawatt hour, in 10 looking at the energy markets. 11 rough numbers, and it scales up over time. 11 And my question is: In this 12 Whether you're off --12 picture, how does the addition of a large 13 13 vou're -- no matter what the excuse is for natural gas plant help achieve fuel 14 diversity? your unavailability or nonperformance, it 14 15 doesn't matter if -- if it's because of 15 THE WITNESS (Powers): I -- I 16 economic dispatch. So these -- these plants 16 think it's one answer to a myriad of issues 17 are 12 to 14,000 heat rate plants. And just 17 we have in New England with the types of 18 by nature of that, they just don't run a 18 generation we're building. I think this is a 19 19 whole lot. And when they do -- or pushing dual-fuel -- dual-fuel unit that will make 20 the button, I should say, is a tenuous 20 steps towards becoming more diverse. 21 proposition. 21 You know, one of the issues 22 22 with the market is it -- it doesn't send the So they're -- they're faced 23 with 20 to 40 hours a year of potential 23 signal for a particular type of resource. It

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sends a signal for -- as the ISO is -- is

striving to do here, dependable flexible

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penalties to the tune of 2,000 to 5,000

dollars a megawatt hour depending on the

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	Page 155		Page 157
1	generation.	1	Some of our witnesses are
2	So, you know, the ability of	2	MR. ASHTON: We've never had
3	New England to achieve fuel diversity is	3	an embargo on natural gas because it's a
4	is it's a difficult question because	4	it's a North American fuel, isn't that true,
5	markets aren't designed to send signals for	5	or substantially all?
6	those. You know, we need X amount of coal.	6	THE WITNESS (Powers): That's
7	We need X amount of oil.	7	right.
8	The fact that this is dual	8	MR. ASHTON: And we've had how
9		9	
10	fueled does help the situation in New	10	many embargoes on oil?
11	England, in terms of fuel diversity, and		THE WITNESS (Powers):
	arguably, we have we have more work to do	11	Numerous.
12	in that area. But but backup oil gets us	12	MR. ASHTON: And I think
13	on the path to where we need to go in terms	13	Mr. Small hit the nail on the head. He's
14	of having flexible, diverse resources.	14	very modest, though.
15	DR. BELL: Thank you.	15	MR. SMALL: No, I think I
16	Those are my questions,	16	think some of our witnesses, Mr. Ashton, are
17	Mr. Chair.	17	too young to remember them, unlike me.
18	THE CHAIRMAN: Thank you.	18	MR. ASHTON: Okay.
19	I understand Mr. Ashton has	19	And did we have a problem with
20	some additional questions.	20	a freeze-up affecting fuel deliveries in New
21	MR. ASHTON: If I could find	21	England back 20-odd years ago because I
22	the microphone. Oh, there it is.	22	you're yeah you're all pretty young for
23	With regard to the issue of	23	that, I guess. Remember New Haven New
24	too much reliability on one fuel or another,	24	York harbor freezing up, Long Island Sound
25	what was the situation in New England a few	25	freezing so no fuel deliveries liquid fuel
	Page 156		Page 158
1		1	Page 158 deliveries could be made? Is that correct?
1 2	years back, ten years back? What was the dominant fuel?	1 2	
	years back, ten years back? What was the		deliveries could be made? Is that correct?
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13 (Pages 155 to 158)

	Page 159		Page 161
1		1	
1	MR. ASHTON: Yeah. MR. SMALL: the Concentric	1 2	drained, gravelly-type material?
2		3	THE WITNESS (Jones): No, sir. MR. ASHTON: What is it?
	Report. They are on page they're Figures	4	
4 5	1 and 2, on pages 5 and 6.		THE WITNESS (Jones): It's a
	MR. ASHTON: Okay. So	5 6	fine-grained sand and silty mixture.
6	SO	7	MR. ASHTON: It has no
7 8	MR. SMALL: It gives the	8	commercial value or has some?
	and natural gas has gone from 18 to	9	THE WITNESS (Jones): Very limited commercial value. It it is more
9 10	43 percent, and oil has gone from 34 percent down to 22 percent, as an example.	10	suitable to mass fills, you know, to export
11	MR. ASHTON: So really, in	11	it off the site. Moisture content becomes a
12	in terms of resources for fuel, we have three	12	problem because it's so fine-grained, it
13	choices: Oil, natural gas, nuclear four	13	doesn't drain. And in order to compact it
14	choices and coal.	14	properly, it does have to be near the optimum
15	I haven't seen many hands	15	moisture content.
16	raised for coal-fired plants in New England.	16	MR. ASHTON: So do your major
17	I know there's been a lot of testimony about	17	structures have to go down to bedrock for
18	how terrible they are. No one is building	18	proper footing?
19	nuclear plants in New England. In fact, I	19	THE WITNESS (Jones): No, sir.
20	think there are only a couple in the country	20	MR. ASHTON: So I'm a little
21	that are being built. They've got some	21	bit confused. You don't need to go to
22	difficulties.	22	bedrock, but the soil is not well-drained and
23	So the option for fuel	23	not very stable. Is that correct?
24	diversity is nil in any quantitative in	24	THE WITNESS (Jones): No. No,
25	any serious quantity. Is that fair to say?	25	I did not say unstable. The soils are stable
	, , , , , , , , , , , , , , , , , , ,		·
	Page 160		Page 162
1		1	
1 2	Page 160 THE WITNESS (Bazinet): Absolutely.	1 2	Page 162 but not well-drained. So there may be some dewatering, perhaps, during the excavation.
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2	THE WITNESS (Bazinet): Absolutely. MR. ASHTON: Okay.	2 3	but not well-drained. So there may be some dewatering, perhaps, during the excavation. Groundwater control will be necessary with
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14 (Pages 159 to 162)

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Page 163 Page 165 1 of the FAA and conflicts over penetration of 1 orientations. No practical way was 2 2 FAA space, we get into some very small identified. And as we examined the 3 3 penetrations. surroundings of the site, we recognized that 4 Is there any reasonable way 4 there are existing structures that already 5 that those penetrations can be reduced so 5 penetrate that VFR horizontal surface and 6 6 that you're not penetrating FAA space? that the ground elevation does as well. 7 For example, the air handling, 7 We also know that the 8 8 approvals that were granted by the FAA I think, is 6 feet, as I recall. Is that 9 something that is given information available 9 incorporated penetrations both into this area 10 10 and additional areas previously. So -today, you go back and take another look at MR. ASHTON: You're -- you're 11 to see if you can get rid of the conflict? 11 12 THE WITNESS (Donovan): We 12 anticipating some of my next questions. 13 would -- we would absolutely take a look at 13 THE WITNESS (Gresock): Sure. 14 14 those items to see if there are ways that we Sorry. 15 can minimize our penetrations of that surface 15 MR. ASHTON: The tree cover 16 16 around, you -- trees can grow up to, in some 17 17 cases, in some places, a hundred foot or more The specific question you 18 asked was related to the air intake 18 high. And they would -- and if they did, in this instance, they would presumably all 19 structure. And for the air intake structure. 19 20 we're at the minimum height. I mean, we have 20 penetrate FAA horizontal airspace. Right? 21 minimized the height of the air intake 21 THE WITNESS (Gresock): 22 22 They -- they may well, right. structure. 23 MR. ASHTON: Minimized it how? 23 MR. ASHTON: And my friends at 24 THE WITNESS (Gresock): And --24 Connecticut Light & Power have constructed a 25 and -- and we have looked very carefully at 25 double-circuit transmission -- quad Page 164 Page 166 1 whether we have the potential to minimize. 1 circuit -- three-circuit transmission line 2 That's one of the reasons we relocated the 2 right by the airport. And some of those 3 stacks to be further from the airport. It's 3 structures, I presume, are in the --4 one of the reasons that we reduced the 4 penetrating the airspaces? 5 elevation of the -- of the finished site 5 THE WITNESS (Gresock): We 6 grade by 1 foot. But the VFR horizontal --6 have surveyed five towers near the site that 7 yeah -- and, of course, looked at reducing 7 penetrate that. the heights of -- of various structures, 8 8 MR. ASHTON: Okay. 9 including the air-cooled condenser and -- and 9 And I wouldn't be a bit 10 some of the buildings. 10 surprised -- I haven't done the 11 But the VFR horizontal 11 investigation -- but I wouldn't be a bit 12 surface, which is the surface that's 12 surprised that there are other commercial 13 penetrated, is at a -- it extends 5.000 feet 13 structures that similarly penetrate it, so it from the runway at a height of 876 feet above 14 14 is not an absolute. 15 mean sea level. And given the -- given the 15 Is a penetration an absolute 16 requirements of the design, there wasn't a 16 prohibition against construction, in any --17 possibility of bringing -- bringing those 17 in any circumstance? 18 features lower. 18 THE WITNESS (Gresock): No, 19 MR. ASHTON: There was no 19 it's not. 20 possibility of design change to bring them 20 The FAA identifies structures 21 in, within, or there's no tech -- no 21 that penetrate as obstacles, and then they're 22 22 practical change? further considered to determine whether or 23 THE WITNESS (Gresock): We 23 not there's risk associated with it. 24 certainly considered it and -- and considered 24 MR. ASHTON: They well may 25 25 available -- available structures and just say just light the structure and that's

15 (Pages 163 to 166)

	Page 167		Page 169
1	enough.	1	THE WITNESS (Gresock): Yeah.
2	THE WITNESS (Gresock): We	2	So, at Brainard, there are two existing
3	certainly expect they will say light the	3	stacks located within 2,790 feet from the
4	structure.	4	approach end of Runway 20.
5	MR. ASHTON: Okay. We don't	5	MR. ASHTON: And is even
6	know that, but we haven't got	6	and is it even closer on the takeoff end?
7	THE WITNESS (Gresock): Right.	7	(Pause.)
8	MR. ASHTON: the FA here	8	THE WITNESS (Gresock): Okay.
9	THE WITNESS (Gresock): Right.	9	So the the departure for Runway 2 is the
10	MR. ASHTON: FAA here to	10	same as Runway 20. So, yes, those those
11	query them.	11	same stacks would would be approximate to
12	THE WITNESS (Gresock): Right.	12	both departure and takeoff.
13	MR. ASHTON: So that's that	13	MR. ASHTON: I must I got
14	remains to be seen.	14	the the answer got lost in the air. Say
15	One of the issues that was	15	it again?
16	raised last time was the possibility of	16	THE WITNESS (Gresock): It's a
17	planes flying through the plume. And I	17	single runway with with two different
18	I it may be that there are interrogatories	18	designations. In one direction, they would
19	on the way to you about the plume, but let me	19	be taking off; and in one direction, they
20	just poke a little bit at it.	20	would be landing.
21	Is the flight path of planes	21	MR. ASHTON: Right.
22	ordained, to your knowledge, or can it be	22	And a plane approaching from
23	adjusted depending upon specific	23	the south would have pretty good clearance
24	circumstances?	24	over those stacks, would it not, except for
25	THE WITNESS (Gresock): There	25	the MD the MDC's plant would be the
	Page 168		Page 170
1		1	Page 170 closest one?
1 2	are certain flight patterns and paths that	1 2	closest one?
1 2 3	are certain flight patterns and paths that are identified. Within some of those areas,		
2	are certain flight patterns and paths that	2	closest one? THE WITNESS (Gresock): Right.
2 3	are certain flight patterns and paths that are identified. Within some of those areas, there's a lot of latitude to avoid potential	2 3	closest one? THE WITNESS (Gresock): Right. MR. ASHTON: And for a plane
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16 (Pages 167 to 170)

	Page 171		Page 173
1	THE WITNESS (Gresock): Yes.	1	MR. ASHTON: That's a tall
2	MR. ASHTON: Okay. I'll let	2	stack, isn't it, about a 500-footer?
3	it go.	3	THE WITNESS (Gresock): Yes,
4	What's another conflict, if	4	yes.
5	you know?	5	MR. ASHTON: So the fact that
6		6	
7	THE WITNESS (Gresock): At	7	there is a measure of conflict with an
8	Sikorsky, there is a very tall existing stack	8	airport is not necessarily an obstacle to
	that's located 24 nautical miles I'm		prevent it. Is that a fair conclusion?
9	sorry 2.4 miles nautical miles from the	9	THE WITNESS (Gresock): I
10	approach end of Runway 11. And that's within	10	think the FAA would always consider that it's
11	the circle to land for Category D aircraft.	11	an obstacle, but it isn't necessarily a
12	It's within the conical surface.	12	safety
13	And because it stands at at	13	MR. ASHTON: Okay.
14	511 feet above mean sea level, it it	14	THE WITNESS (Gresock):
15	penetrates that conical surface for quite a	15	hazard.
16	bit.	16	MR. ASHTON: Does emission
17	MR. ASHTON: The top of the	17	from the plume I may I'm going to ask
18	stack is 500 feet 511 feet up?	18	some of the questions that may possibly be in
19	THE WITNESS (Gresock): Above	19	an interrogatory already, but I'm I'm not
20	mean sea level.	20	going to be here for long, and I'd like to
21	MR. ASHTON: Okay.	21	know what the answers are.
22	And do you know what that	22	Has the have you done
23	stack is? Where who it belongs to.	23	studies to look at the velocity of exhaust
24	THE WITNESS (Bazinet): That's	24	gases coming out of the stack as to what they
25	the Bridgeport Harbor coal plant.	25	are at the top of those 150-foot stacks and
	Page 172		Page 174
1		1	
1 2	MR. ASHTON: So okay. And	1 2	how that velocity changes as the effluent
2	MR. ASHTON: So okay. And that's been there for a few years?	2	how that velocity changes as the effluent rises?
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	Page 175		Page 177
1	THE WITNESS (Gresock): The	1	based on meteorological condition.
2	the exhaust exit velocity temperature is	2	MR. ASHTON: All right.
3	183 degrees Fahrenheit.	3	THE WITNESS (Gresock): And we
4	MR. ASHTON: 183. Okay.	4	can take a look at some of
5	THE WITNESS (Gresock): And	5	MR. ASHTON: That's fair.
6	the exhaust exit velocity is 56.2 feet per	6	Let's talk let's talk still air, which is
7	second.	7	probably the worst
8	MR. ASHTON: Now, if I	8	THE WITNESS (Gresock): Yeah.
9	remember my 56.2 feet per second, that's	9	MR. ASHTON: worst case.
10	something in the range of 30 miles that's	10	Would you agree with that?
11	not me 30 miles an hour, something like	11	THE WITNESS (Gresock): The
12	that? Thirty-five miles an hour?	12	the MITRT yes, the MITRT model, back in
13	THE WITNESS (Gresock): It's a	13	2012, certainly assumes that still air is
14	little more than 35 miles an hour.	14	is a maximum impact case, and took a look at
15	MR. ASHTON: Okay.	15	this project from from the perspective of
16	Do you know what the wind	16	that very conservative view.
17	velocities were a couple days ago around this	17	And in terms of the the
18	area?	18	median height of the plume above the stack,
19	THE WITNESS (Gresock): They	19	where they were identifying potentially
20	were high.	20	severe turbulence, that median height ranged
21	MR. ASHTON: I'm struck with	21	from 28 to 29 feet above stack top.
22	35 in the context of a real life situation.	22	MR. ASHTON: Twenty-eight or
23	THE WITNESS (Gresock): I I	23	29 feet?
24	was stranded in Ohio so I don't know what	24	THE WITNESS (Gresock): Yeah.
25	they were here.	25	MR. ASHTON: So you're up
	·		
	- 456		
	Page 176		Page 178
1	THE WITNESS (Bazinet): Gusts	1	about 180 feet. Is that that correct?
2	THE WITNESS (Bazinet): Gusts over 65 miles an hour.	2	about 180 feet. Is that that correct? THE WITNESS (Gresock): Right.
2 3	THE WITNESS (Bazinet): Gusts over 65 miles an hour. MR. ASHTON: Okay.	2	about 180 feet. Is that that correct? THE WITNESS (Gresock): Right. MR. ASHTON: My arithmetic is
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2 3 4 5 6	THE WITNESS (Bazinet): Gusts over 65 miles an hour. MR. ASHTON: Okay. So we're dealing with, at the stack exit at the stack exit, a temperature which is what was it again	2 3 4 5 6	about 180 feet. Is that that correct? THE WITNESS (Gresock): Right. MR. ASHTON: My arithmetic is correct? THE WITNESS (Gresock): And there, of course, were percentile events that
2 3 4 5 6 7	THE WITNESS (Bazinet): Gusts over 65 miles an hour. MR. ASHTON: Okay. So we're dealing with, at the stack exit at the stack exit, a temperature which is what was it again 150?	2 3 4 5 6 7	about 180 feet. Is that that correct? THE WITNESS (Gresock): Right. MR. ASHTON: My arithmetic is correct? THE WITNESS (Gresock): And there, of course, were percentile events that had the plume extending even even farther
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2 3 4 5 6 7 8 9	THE WITNESS (Bazinet): Gusts over 65 miles an hour. MR. ASHTON: Okay. So we're dealing with, at the stack exit at the stack exit, a temperature which is what was it again 150? THE WITNESS (Gresock): A hundred and eighty-three.	2 3 4 5 6 7 8 9	about 180 feet. Is that that correct? THE WITNESS (Gresock): Right. MR. ASHTON: My arithmetic is correct? THE WITNESS (Gresock): And there, of course, were percentile events that had the plume extending even even farther above the stack top. The 90th percentile height ranged from 126 to 133.
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	Page 179		Page 181
1	course we have done that as it pertains to	1	direction and speed.
2	the air permit.	2	DR. KLEMENS: But you also
3	MR. ASHTON: And has that been	3	testified that this would all dissipate at
4	filed with the Council?	4	the 28 to 29-foot level?
5	THE WITNESS (Gresock): It	5	THE WITNESS (Gresock): That's
6	has.	6	the medium height median height of the
7	MR. ASHTON: Okay.	7	plume above the stack that the MITRT report
8	I think that's it for, at	8	identified as as being an area where
9	least	9	turbulence would exist.
10		10	
11	MR. SMALL: Mr. Ashton,	11	DR. KLEMENS: Up to 28 to
12	just just the the MITRT and the SAIC		29 feet above the top of the stack?
13	documents that Ms. Gresock referred to are on	12	THE WITNESS (Gresock):
	Mr. Pietrorazio's administrative notice list,	13	Correct.
14	so they are they'll be part of your	14	DR. KLEMENS: And I don't know
15	record.	15	much about air traffic control, but do you
16	MR. ASHTON: Okay. Thank you.	16	generally find planes flying 28 to 29 feet
17	THE CHAIRMAN: Okay. Thank	17	above an obstacle?
18	you.	18	THE WITNESS (Gresock): Planes
19	Continue Dr. Klemens, do	19	should not be flying in that airspace.
20	you	20	The the VFR traffic pattern altitude in
21	DR. KLEMENS: I just thank	21	the area is 1700 feet above mean sea level,
22	you, Mr. Chairman.	22	which would place planes at 720 feet above
23	I have a few questions. I'm	23	the stack top.
24	going to hold most of my questions for when	24	There's also a recommendation
25	Mr. Gustafson is here on the 10th of	25	from yeah.
	Page 180		- 100
	rage 100		Page 182
1		1	Page 182 There's there are there
1 2	February, but I do have some questions.	1 2	There's there are there
2	February, but I do have some questions. Following on this discussion of the velocity	2	There's there are there are different heights for for different
	February, but I do have some questions. Following on this discussion of the velocity of the plume, we discussed the concept of		There's there are there
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19 (Pages 179 to 182)

Page 183 Page 185 1 1 the 1700 feet above mean sea level, which You've discussed two other 2 2 would be placing the minimum heights at large facilities, one in Bridgeport and one 3 3 700 feet above stack top elevation. There is in New Haven. Do you have any data on what 4 an IF -- IFR condition which is what aircraft 4 those plumes are? 5 would use when they're -- when they're using 5 THE WITNESS (Gresock): We 6 6 don't have specifics on their plumes, but we their various equipment instead of 7 visibility. And the FAA defines a circling 7 did take a look at the NTSB records to 8 minimum descent area which would put traffic 8 determine whether there had been any 9 a minimum of 300 feet above the stack tops. 9 incidents reported at those two facilities, 10 10 There is a hypothetical missed and there were none. DR. KLEMENS: Do you have any 11 approach area condition that establishes the 11 12 very lowest that we would expect any aircraft 12 records of a plume ever causing an air 13 would be over the stack, which is -- which is 13 traffic -- an airplane --14 THE WITNESS (Gresock): No. 14 at 277 feet above the stack. But that is a 15 calculation that's based on using a whole 15 DR. KLEMENS: -- crash? 16 series of worst-case assumptions in terms of 16 Thank you. All right. 17 climbing rate and -- and location, and also 17 I'd like to move on, and this 18 presumes that an aircraft would deliberately 18 is probably for -- for Curt Jones. I'm going 19 want to fly directly over the stack. 19 to keep most of the wetland questions for 20 DR. KLEMENS: So from what I'm 20 when Dean returns, but I would like to talk a 21 understanding, this -- the issue really is --21 little bit about the subterranean nature 22 is the stack. The plume -- the plume is not 22 of -- of that. And I think you're probably 23 really an issue. If a plane is over -- that 23 best able, I think, to answer this. 24 close to the stack, there's other problems in 24 You -- you have described this 25 its -- in its way it's flying. It shouldn't 25 in one area, the bedrock is 35 feet below, Page 184 Page 186 1 be that close to the stack, is what I'm 1 but that's limited borings. Correct? You 2 saying. Is that --2 haven't done comprehensive borings at the 3 THE WITNESS (Gresock): It 3 site? 4 shouldn't be that close to the stack, yes. 4 THE WITNESS (Jones): We -- we 5 DR. KLEMENS: Yeah. And it's 5 do have a geotechnical report that was 6 got a bigger problem if it's close to the б prepared by Burns & Rowe back in January of 7 stack probably than -- than 28 or 29 feet of 7 2001. And there were a series of tests. 8 plume, the risk of colliding with the stack. 8 In -- the report states that 9 Correct? 9 there were 23 test borings, three piezometers 10 THE WITNESS (Bazinet): Yes. 10 for measuring groundwater, and some 11 THE WITNESS (Gresock): It 11 resistivity tests, and 12 test pits which 12 would be prudent for aircraft to not fly that 12 were excavated by a backhoe. 13 13 close to the stack, yes. DR. KLEMENS: The depth to 14 DR. KLEMENS: Correct. 14 bedrock is? 15 THE WITNESS (Jones): It's not And so what I'm saying is this 15 16 16 contained, but it's my recollection that it whole plume discussion is sort of, maybe, 17 could be a bit of a red herring in the 17 was greater than 30 feet. 18 18 overall discussion? DR. KLEMENS: So is this sort 19 THE WITNESS (Gresock): I 19 of like a large, sort of, dome or a rock 20 think the FAA has been very consistent in 20 formation which is overlain by this very fine 21 their -- in their view that the risk of 21 silty water holding glacial till? Is that a 22 plumes causing a disruption of flights is --22 correct characterization? 23 23 is very unlikely. THE WITNESS (Jones): I -- I 24 24 believe the proper term is a "drumlin." DR. KLEMENS: And do you have 25 MR. ASHTON: It is a drumlin? any information on -- on plumes? 25

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Page 187 Page 189 1 1 THE WITNESS (Jones): Drumlin, give a composite of how -- how much of that 2 2 is going to be disrupted subterraneanly? yes. 3 3 DR. KLEMENS: So do you have MR. SMALL: We can provide a 4 any sense of what the subterranean water 4 Late-File exhibit on that, Dr. Klemens. 5 flows are? Because the -- and I'm only 5 THE WITNESS (Jones): We have 6 6 asking this because I was kind of amazed that provided a Late-Filed exhibit showing the --7 7 the mass grading that's showing on the site. there was an attempt to fill a wetland on the 8 8 site -- which I guess we'll get into at some DR. KLEMENS: I'm interested 9 9 point -- and that was unsuccessful to fill. in how many acres you're going to be --10 10 which would indicate to me there's an awful you're going to penetrate down into this --11 lot, potentially, of subterranean water 11 this sort of till. And where I'm going with 12 moving through that site. 12 this, I'd like to know, is what's happening 13 THE WITNESS (Jones): So, as 13 to all the water, the water storage capacity? 14 with most sites, the -- the soil conditions 14 How will that be affected by the emplacement 15 do vary, and there are some wetlands on the 15 of these foundations, and what will the 16 site. And I was talking in general terms 16 ultimate effects be -- and maybe that's a 17 17 about the overall characteristics when I was question for Dean -- on the water quality 18 talking about the glacial till. 18 downstream in Jacks Brook where it drains? 19 So within the glacial till, 19 THE WITNESS (Jones): So -- so 20 the -- the soil permeability is very low, so 20 there are about 20 acres of disturbance. And 21 the water travels extremely slowly. So it 21 that, again, is shown on -- on our Late-Filed 22 tends to, you know, store up during the 22 exhibit. We have performed detailed 23 winter and -- and springtime, especially when 23 hydraulic calculations that have been 24 we have heavier rain. And the -- and the 24 submitted to control the postdevelopment 25 25 runoff, as well as controlling of water groundwater levels will rise, you know, Page 190 Page 188 1 within the pores of the soil and then over --1 quality, the sotrmwater quality that leaves 2 in -- during the summer, the ground levels --2 the site. So we've -- we utilized the 2004 3 groundwater levels will drop significantly. 3 and 2002 state manuals and incorporated the 4 So as far as the transmission 4 best practices into the plans. 5 of water through the site, I would not 5 DR. KLEMENS: And I understand 6 character -- characterize it as being high, 6 that. My question is that's with the 7 by any means. There are pockets where it 7 sotrmwater on the surface. How have you 8 tends to accumulate due to the annual 8 factored in for what is going in or not going 9 9 in and what's going on subsurficially? rainfall. 10 DR. KLEMENS: So it 10 Because that's where I'm getting at, is 11 accumulates in these pockets and then breaks 11 what's happening subsurficially, and what 12 out in these wetlands -- these breakout 12 will happen when we replace all that till 13 13 wetlands? with foundations, footings, in that? Where 14 is this water going, or how much is there? THE WITNESS (Jones): 14 15 15 That's -- that's correct. I would also add And do you have a date on that? 16 16 THE WITNESS (Jones): So I that there are no large off-site drainage areas which contribute to the site. So the 17 17 think it -- it really gets into the -- the 18 18 runoff. So rather than -- and first of all, site is pretty much isolated by itself on --19 19 on the hilltop. it doesn't have a high coefficient of 20 DR. KLEMENS: And when you put 20 absorption because of the glacial till on the 21 a big foundation, how many -- how many acres 21 site. It's impermeable. There will be a 22 is this foundation, roughly, in size? 22 change in the ground cover, and the runoff is THE WITNESS (Jones): There 23 23 controlled through detention ponds. 24 are a number of different structures. 24 So, in effect, the groundwater

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table will be lowered on the site to some

DR. KLEMENS: Well, can you

25

25

Page 191 Page 193 1 1 depth below the areas of the cuts and fills. that the impetus is the need for new 2 2 DR. KLEMENS: And what's the generation at this point. There's -- there's 3 3 environmental impact of lowering the an impetus to build this plant now. 4 groundwater table? 4 THE WITNESS (Bazinet): Yeah. 5 THE WITNESS (Jones): Is 5 Yes. I'm sorry. 6 6 specifically -- in what regard? MR. ASHTON: So I must ask the 7 DR. KLEMENS: In regards to 7 question: Was there an impetus 15 years ago? 8 8 THE WITNESS (Bazinet): off-site. Off-site. We have a lot of --9 there's a lot of material on the record, and 9 Similarly, the -- there's been 10 10 a lot of people have been concerned about multiple, I -- I guess, over the course of 11 effects, the downstream receiving wetlands 11 the past 15 years in -- that you could 12 and water courses. So what would your --12 characterize one being the case 15 years ago 13 what would that effect be of lowering the 13 as well, yes. 14 14 water table? DR. KLEMENS: And we've heard 15 MR. SMALL: Dr. Klemens, we're 15 a lot of talk about regional benefits. Can 16 getting into an area that we may best handle 16 you sort of articulate how this will benefit 17 17 the people of Connecticut and -- that's my for a Late-Filed exhibit, because we don't 18 have subterranean -- the effect on -- as I 18 first question -- and more specifically, the 19 understand your question, is the effect on 19 communities that are near this plant, 20 the subterranean water table and what happens 20 proposed plant? 21 with that water after construction, is that a 21 THE WITNESS (Bodell): Tayna 22 fair description of what you're looking for? 22 Bodell, executive director of Energyzt. 23 DR. KLEMENS: I'm interested 23 We were tasked with performing 24 in whether -- if there's a lot of water being 24 the benefits analysis of looking at the 25 held in that drumlin in those soils --25 impacts on prices and emissions in the region Page 192 Page 194 1 MR. SMALL: Yeah. 1 of New England. We also were able to look at 2 DR. KLEMENS: -- what will 2 Connecticut, which is not included in the 3 happen, where it's being diverted, how it 3 report, but we do have information on that. 4 will affect the downstream wetlands and water 4 And what we found was, in New England, 5 courses, and more importantly, how are you 5 there's a benefit due to reduced prices of б going to maintain the -- the quality of that б around \$4.5 billion over the ten years we 7 water. 7 examined, 2018 to 2028. Carbon --8 You talk about -- I'm just 8 DR. KLEMENS: This is -- this 9 giving you what -- you're talking about 9 is New England? 10 having detention ponds, but that water is 10 THE WITNESS (Bodell): This is 11 then going to be warmer than what's below. 11 New England, and it's what is in the report. 12 So how are you going to deal with thermal 12 We have similar numbers for differences, water quality, quantity, and the 13 13 Connecticut as well. The benefits for 14 thermal aspects of that water? 14 Connecticut on prices is about a third of the THE WITNESS (Jones): I think benefits to New England. So around 15 15 16 we could more accurately address all those \$1.5 billion in reduced electricity energy 16 17 questions through Late-File exhibits. 17 costs to the load in Connecticut results from DR. KLEMENS: But that's sort 18 18 putting this efficient, natural gas power 19 19 of the universe of those questions is -- I'm plant onto the system. 20 trying to understand that. 20 DR. KLEMENS: Are there any --21 THE WITNESS (Jones): Okay. 21 but there's no specific pricing benefits that 22 DR. KLEMENS: And the only --22 accrue to the communities near there? 23 23 the very last set of questions I have just THE WITNESS (Bodell): So 24 really go back to some of the -- my 24 because New England is a locational marginal 25 25 pricing model, there would be benefits colleagues' cross-examination, is you said

	Page 195		Page 197
1	accruing to the community, as well,	1	model that's more efficient, that's readily
2	associated with the lower electricity costs.	2	available, from Germany, from U.S., wherever,
3	We do not have specifically right now what	3	Mr. Donovan?
4	the local benefits would be. And we would	4	THE WITNESS (Donovan): I
5	need to look at how the New England zones are	5	don't know if I understand your question.
6		6	
7	configured, but we we certainly could look more in more detail at the zone of the	7	Could you repeat it, please?
8			MR. LEVESQUE: If you have
9	community.	8	smaller gas turbines, smaller generators,
10	DR. KLEMENS: I have no	9 10	will your buildings be smaller or lower?
11	further questions. Thank you. I have no		THE WITNESS (Donovan): No.
12	more further questions at this time, but I	11 12	No. The boilers, the HRSGs, may be slightly
13	reserve my right to ask on the wetlands next	13	smaller, but on the order of just a few feet.
13 14	time, please.		But the stack heights would be the same
	THE CHAIRMAN: Mr. Levesque?	14	height as what we're proposing. And the
15	MR. LEVESQUE: Ms. Gresock,	15	air-cooled condenser would be per the
16	you testified that, given the current	16	original the original application.
17	turbines and production the size of the	17	MR. LEVESQUE: Well, it's
18	equipment that is chosen so far, you couldn't	18	difficult to do an off-the-cuff design.
19 20	make the visibility and the bulk of the	19	THE WITNESS (Donovan):
21	buildings and the stacks lessened. But if you had smaller production there and	20 21	Correct. MR. LEVESQUE: And I didn't
22	different sized turbines, would the buildings	22	ask for a specific size.
23	be smaller?	23	Did you do did you submit a
24	Are you giving her an answer?	24	report and we talked about promoting dual
25	THE WITNESS (Donovan): Well,	25	fuel or the cost of oil is much less, like
23	THE WITHLESS (Donovan). Wen,	23	ruer of the cost of on is much less, like
	Page 196		Page 198
			1490 170
1	I think one of the one of the benefits of	1	
1 2	I think one of the one of the benefits of this of the changed application is that we	1 2	like now. Did you submit a report on how
1 2 3	this of the changed application is that we		like now. Did you submit a report on how many oil tank trucks per day you would need
2		2	like now. Did you submit a report on how
2 3	this of the changed application is that we have reduced the height of the air-cooled	2 3	like now. Did you submit a report on how many oil tank trucks per day you would need to use oil production for a few weeks or a
2 3 4	this of the changed application is that we have reduced the height of the air-cooled condenser, for example, and also the height	2 3 4	like now. Did you submit a report on how many oil tank trucks per day you would need to use oil production for a few weeks or a few months?
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23 (Pages 195 to 198)

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	Page 199		Page 201
1	assume are the largest manufactured	1	they'll be doing a more in-depth heavy haul
2	components that you'd deliver to the site via	2	survey to determine the exact route.
3	the interstate trucks, would they be the gas	3	MR. LEVESQUE: Okay. But
4	turbines?	4	you you selected your turbines and your
5	THE WITNESS (Donovan):	5	generators before checking
6	It's that's correct. The	6	THE WITNESS (Donovan):
7	gas turbines would be among the largest	7	Correct.
8	components, but it's the gas turbines and the	8	MR. LEVESQUE: if they'll
9	generators.	9	let you go across those bridges?
10	MR. LEVESQUE: And did you	10	THE WITNESS (Donovan): That's
11	pick a route already for how they would be	11	correct.
12	delivered, or do you know where they would be	12	MR. LEVESQUE: Okay.
13	manufactured?	13	And if they they don't
14	THE WITNESS (Donovan):	14	permit you to go across those bridges, what
15	They they would be	15	do you do?
16	manufactured the gas turbines would be	16	THE WITNESS (Donovan): We
17	manufactured in Greenville, North Carolina.	17	find a different route. It's it's pretty
18	MR. LEVESQUE: Okay.	18	typical to to approach it this way, and
19	THE WITNESS (Donovan): The	19	part of it is driven by the the need to
20	generators would be or South Carolina	20	select the technology to support the
21	sorry.	21	permitting earlier in the process.
22	The steam turbine would be	22	MR. LEVESQUE: Sure.
23	manufactured in Schenectady, New York.	23	And if if if it's
24	MR. LEVESQUE: Okay.	24	approved as now proposed, and all the permits
25	And did do you have a road	25	are in, if the roads need improvement, would
	Page 200		Page 202
1	Page 200 engineering report on how those make their	1	Page 202 the company ever consider volunteering to
1 2		1 2	
	engineering report on how those make their		the company ever consider volunteering to
2 3 4	engineering report on how those make their way from I-84 to the site? THE WITNESS (Bazinet): No, we don't have a road engineering report. We	2	the company ever consider volunteering to improve those roads instead of asking the towns to do it? THE WITNESS (Bazinet):
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24 (Pages 199 to 202)

Page 203 Page 205 1 efficient energy output, saving fuel and 1 perspective. 2 2 reducing greenhouse gas. MR. HANNON: So then on 3 3 However, my question on that Table 4-4, the greenhouse gases that you're 4 is on page 24, in Tables 4-4. If I'm reading 4 referring to, are you incorporating all those 5 it correctly, it looks like there's an 5 above it, or is it a separate line item that 6 6 increase in greenhouse gases. So can you you're dealing with? 7 explain the difference between what's in the 7 THE WITNESS (Seller): That 8 8 would be a separate line item. What -table and what's in the comment on page 5? 9 MR. SMALL: I'm sorry. Which 9 what -- the Table 4-4 shows what -- what the 10 10 document are you on? difference in greenhouse gas emissions on an 11 MR. HANNON: The application 11 absolute annual tons per-year basis would be 12 form that originally came in. 12 between the two different turbines. It 13 THE CHAIRMAN: Exhibit 1. 13 doesn't take into account the fact that, with 14 14 MR. SMALL: Oh, exhibit 1. the smaller turbine, you'd have to make up 15 15 that additional energy from someplace else. Yeah. Thank you. 16 MR. HANNON: So on page 5, 16 MR. HANNON: Well, I can appreciate that, but I'm looking at the total 17 17 under 2.1, the first bullet, it talks about 18 reducing greenhouse gas in the new proposal. 18 difference. It does state that, under the 19 On page 24, Table 4-4, if I'm reading it 19 new unit, although it may be lower greenhouse 20 correctly, it looks like there's a 20 gas emissions per kilowatt, because there are 21 significant increase in greenhouse gases. 21 more kilowatts, you are generating more 22 Can you please explain the difference? 22 greenhouse gases. I'm just saying that seems 23 THE WITNESS (Seller): Sure. 23 to conflict with the statement that's on 24 Yeah. Greenhouse gases, of course, are a 24 page 5 that says "reducing greenhouse gases." 25 25 There's no, sort of, asterisk regional pollutant -- or, in fact, a global Page 206 Page 204 1 pollutant. The improvement in efficiency 1 associated with per kilowatt hour. You say 2 results in fewer greenhouse gases per 2 on one page that it's reducing greenhouse 3 megawatt hour of generation that the facility 3 gases, on another it's more. 4 would be responsible for. 4 THE WITNESS (Seller): It's 5 So, obviously, if the facility 5 reducing greenhouse gases on a regional 6 is larger, on an absolute basis, there's more 6 basis. Greenhouse gases are generally 7 greenhouse gases coming from that facility, 7 regulated by the United States Environmental 8 but the differences in megawatts between the 8 Protection Agency, as well as the Connecticut 9 9 larger facility and a smaller facility would Department of Energy and Environmental 10 have to be met by another facility. And all 10 Protection on a pounds-per-megawatt-hour 11 of the other facilities have a lesser 11 basis because they recognize that it's --12 12 it's a global pollutant. efficiency, and therefore, would be 13 13 generating more greenhouse gases per megawatt MR. HANNON: Okay. 14 14 hour. On page 9, 2.3, stack location 15 So there's a set amount of 15 and position -- this is more of a question --16 megawatt hours of -- of energy that has to be 16 you just have a statement there, the second 17 generated in ISO New England to meet the 17 paragraph: "This movement of the stacks will 18 demand. And by going to a larger more 18 avoid lateral navigation obstruction." 19 efficient turbine overall, there would be 19 My question is going back, and 20 less greenhouse gases emitted over the 20 I'm looking at the original finding of fact 21 region. 21 back in June of '99. Is this the same as the 22 22 And since greenhouse gases are circle to land minimum, or is this a 23 23 basically a global pollutant, it doesn't different situation out on the site where 24 really make much too much difference where 24 there may be an issue with the FAA? 25 they're generated from, from an environmental 25 THE WITNESS (Gresock):

25 (Pages 203 to 206)

	Page 207		Page 209
		١.	
1	Previously, there were	1	mitigation?
2	additional areas that were penetrated by the	2	THE WITNESS (Bazinet): That's
3	stack locations. So shifting the stacks	3	so we're doing a combination. So we
4	further to the east avoided the potential	4	are everything you said is true, and
5	penetration of the Runway 18 LNAV procedure	5	further, the the current status of that
6	primary area which was was previously	6	application is that we're contemplating the
7	penetrated.	7	use of wet ponds for mitigation in
8	Lowering the base elevation of	8 9	combination with the In-Lieu Fee Program, and
9 10	the site to 830 feet above mean sea level from 831 feet above mean sea level avoided		that's been a recommendation that DEEP has
		10	made to the project.
11 12	the potential penetration of the expanded	11 12	MR. SMALL: I would just note, Mr. Hannon
13	Category A circling approach for the airport.	13	
13	MR. HANNON: Okay. But is that the circle to land	14	MR. HANNON: Yes.
15		15	MR. SMALL: that the DEEP
16	minimum? I'm just trying to make sure	16	letter that was filed yesterday or the day
17	that		before, mentions what the agency requested
	THE WITNESS (Gresock): Yeah.	17	MR. HANNON: Okay.
18 19	MR. HANNON: you're using one term in 2015. There was another term	18	MR. SMALL: that we we
20		19 20	contemplate doing.
21	used in 2 in 1999. I'm just trying to make sure that they're one and the same.	21	MR. HANNON: On page 26, water
22	THE WITNESS (Gresock): Yes,	21	usage, 4.1.2.1, this is just more of a
23	with within that area, the circle to land	23	question. I think you're you're saying that the maximum amount of water that would
23	· · · · · · · · · · · · · · · · · · ·	24	
25	minimum would apply.	25	be provided by Heritage is the
25	MR. HANNON: Okay. Thank you.	25	218,000 gallons per day. Is that correct?
	Page 208		Page 210
1		1	
1 2	On page 18, it is a question	1 2	THE WITNESS (Bazinet): The
2	On page 18, it is a question dealing with the wetlands, but I think this	2	THE WITNESS (Bazinet): The the maximum amount that they'll commit to is
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2 3 4	On page 18, it is a question dealing with the wetlands, but I think this may be something that can possibly be answered with Dean not being here. If not, I	2 3 4	THE WITNESS (Bazinet): The the maximum amount that they'll commit to is 218,000 gallons per day, to the extent that there are available supplies above and beyond
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2 3 4 5	On page 18, it is a question dealing with the wetlands, but I think this may be something that can possibly be answered with Dean not being here. If not, I can wait until he gets back. But there's a reference on	2 3 4 5	THE WITNESS (Bazinet): The the maximum amount that they'll commit to is 218,000 gallons per day, to the extent that there are available supplies above and beyond
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26 (Pages 207 to 210)

	Daga 211		Page 212
	Page 211		Page 213
1	Then a question I have on	1	THE WITNESS (Gresock): That's
2	page 29, now you're talking about an off-site	2	correct.
3	regenerated ion exchange system instead of	3	MR. HANNON: Thank you.
4	on-site. Where are you proposing to have the	4	On page 39, at the top of the
5	ion exchange system, and what type of water	5	page, the first full sentence: "No brooks or
6	may be coming from that, as the water is	6	streams are located on the project site."
7	processed, so that you can actually run it so	7	This may be a matter of
8	it's clean enough?	8	semantics, but if I'm not mistaken, I think
9	THE WITNESS (Bazinet): So	9	that you discussed a an intermittent
10	so the the creation of the demineralized	10	channel. To me, it's basically one and the
11	water will be a similar process. It will	11	same, and I believe that's associated with
12	just be that demineralized trailers will be	12	Wetlands 1.
13	used to create that water and populate the	13	So if there is that
14	tank inventory, if you will. Those are noted	14	intermittent channel, or as I would consider
15	on our site plan filed in the application as	15	it to be an intermittent stream, I'm not sure
16	item 7.	16	that this statement is really accurate.
17	MR. HANNON: No, I understand	17	MR. SMALL: Mr. Gustafson can
18	that. But you're saying it's now going to be	18	address that.
19	off-site generated. Where?	19	MR. HANNON: Okay. This is
20	THE WITNESS (Bazinet): We can	20	part of Tab A.
21	provide you some more detail for in a	21	There's a a letter sent to
22	Late-Filed exhibit on where where the	22	Steve Edwards at the Department of Energy and
23	trailers would be regenerated. It would be	23	Environmental Protection which talks about
24	contracted through a third-party resource,	24	this is on the third page a letter from
25	and we just don't have that detail available	25	Naugatuck POTW confirming that it has the
	Page 212		Page 214
	Page 212		Page 214
1	right now.	1	ability to accept the proposed discharge,
2	right now. MR. HANNON: Okay. If you do	2	ability to accept the proposed discharge, will be forwarded to DEEP as soon as
2	right now. MR. HANNON: Okay. If you do that, that would be great. Thank you.	2 3	ability to accept the proposed discharge, will be forwarded to DEEP as soon as practical.
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27 (Pages 211 to 214)

Page 215	Page 217
We'll resume promptly at 1:45, 45 minutes. (Whereupon, the witnesses were excused, and a recess for lunch was taken at 12:59 p.m.) 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	1 matter. And I just want to make sure that 2 I'm understanding this again correctly. 3
AFTERNOON SESSION 1:45 P.M. JON DONOVAN, TANYA BODELL, DANIELLE POWERS, ANDREW J. BAZINET, D. LYNN GRESOCK, FREDERICK SELLARS, CURTIS C. JONES, having been previously duly sworn, were examined and testified further on their oaths as follows: THE CHAIRMAN: Okay. Good afternoon. Now continue the cross-examination, Mr. Hannon. MR. HANNON: Thank you Mr. Chair. One of the things I wanted to touch on briefly, go back to page 24, on Table 4-4. In listening to a lot of the concerns was the emissions of particulate	sentence under Wetland 2 description. It says: "The majority of Wetland 2 is off-site with only its western edge located in the northwest corner of the site." I believe that should be with only its eastern edge. THE WITNESS (Bazinet): Yes, that's correct. MR. HANNON: Tab C, getting more towards the the back end of things, page A19. Again, this goes back to part of the question I had earlier about the low-impact development activities. So you've got the grass-lined swales, but then, looking at bear with me on this one I believe it is way towards the back, but it's Map C310. Is it Civil 1 that prepared it? THE WITNESS (Jones): Yes, sir. MR. HANNON: Okay. I guess part of the question I have there is that it states that and there's at an elevation of 823, there is a

28 (Pages 215 to 218)

	Page 219		Page 221
1	modified riprap emergency overflow from	1	concerned about blowing out the spillway.
2	Retention Area A. If I'm reading that	2	THE WITNESS (Jones):
3	correctly, that's supposed to drain directly	3	Yeah. So, typically, that
4	into the grass swale.	4	hundred hundred-year storm is the designed
5	I I haven't seen any type	5	storm, and we certainly could add some
6	of design that would be able to take that	6	armored protection across that in in the
7	water flow effectively without severely	7	event that there would be a storm greater
8	eroding the banks over there. So I'm just	8	than than the hundred year.
9	trying to figure out exactly what the process	9	MR. HANNON: Okay. Then,
10	would be there. Because, typically, I I	10	while we're actually on that page, keeping
11	will admit I haven't seen the emergency	11	that one sort of out and also it's
12	swales or these emergency spillways unloading	12	Figure 6. It's a map, right across on
13	into a grass-lined swale, which is being used	13	page 30. Looking at figure 6, it to me,
14	to improve water quality.	14	based on the elevations, it looks like the
15	THE WITNESS (Jones): Yes,	15	berm elevation is at 830.
16	sir. Are you referring to the detention pond	16	On C1 I'm sorry 3
17	in the northern side of the site there?	17	C310, that's at 824, so which is it?
18	MR. HANNON: No. It's	18	THE WITNESS (Jones): I'm
19	Retention Area A, the one on the southern end	19	sorry. Figure 6?
20	of the site.	20	MR. HANNON: Figure 6. It's
21	THE WITNESS (Jones): The	21	in
22	southern site. So the overflow from that is	22	MR. SMALL: In the main body
23	the two pipes on the westerly side of the	23	of the report, Mr. Hannon?
24	pond. So those flows will the outlet flow	24	MR. HANNON: Yes. It's right
25	will be split into those two pipes.	25	across from page 30 page 30. So it's
	Page 220		- 000
			Page 222
1	MR. HANNON: Well, those	1	4.1.3. There, it looks like that the berm is
1 2	MR. HANNON: Well, those really aren't overflow pipes. Those are at	1 2	
			4.1.3. There, it looks like that the berm is
2	really aren't overflow pipes. Those are at	2	4.1.3. There, it looks like that the berm is actually at an elevation of 830, but the Map C310 shows the berm to be at an elevation of 824. So I'm just trying to make sure that I
2 3 4 5	really aren't overflow pipes. Those are at the base elevation of the detention basin.	2 3 4 5	4.1.3. There, it looks like that the berm is actually at an elevation of 830, but the Map C310 shows the berm to be at an elevation of 824. So I'm just trying to make sure that I understand which map is correct on this.
2 3 4 5 6	really aren't overflow pipes. Those are at the base elevation of the detention basin. You've got the emergency spillway on the eastern side which is at an elevation of 823	2 3 4	4.1.3. There, it looks like that the berm is actually at an elevation of 830, but the Map C310 shows the berm to be at an elevation of 824. So I'm just trying to make sure that I understand which map is correct on this. THE WITNESS (Jones): Can you
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29 (Pages 219 to 222)

	Page 223		Page 225
1		1	
1 2	MR. HANNON: So I'm just trying to make sure that I understand which	1 2	Okay. How do I describe this one.
3	one is the correct number.	3	Well, this this is part of
4	THE WITNESS (Jones): The	4	the All Points Technology submittal, dated
5	Sheet C10 C310 is the correct drawing.	5	August 22, 2014. But this does go to some of
6	It's a newer drawing and which supersede the	6	the comments that I believe you had made
7	information on Figure 6.	7	earlier.
8	MR. HANNON: Okay. Thank you.	8	My question was: Were any
9	And you might want to keep	9	test pits dug on the site? And I believe you
10	C310 out, because I've got some other	10	made a comment there were 23 test pits dug.
11	questions, but I want to go back on some	11	Is that information available
12	other issues first, and then we'll get back	12	anywhere in terms of what was actually found
13	there.	13	in those test pits?
14	On page A22, it says: "CPV	14	And the reason I'm asking is
15	will monitor stormwater management facilities	15	I'm looking at it more from a soil
16	during construction."	16	perspective, in terms of whether or not there
17	It doesn't say anything about	17	was any modeling testing done to see where
18	postconstruction. It just says they'll	18	the high groundwater table was and how that
19	monitor during construction for invasive	19	may or may not impact the storm drainage
20	species, and I don't think that's adequate.	20	system that's being proposed on site.
21	I mean, so why monitoring	21	MR. SMALL: Mr. Hannon, we're
22	only and also, why only monitoring the	22	checking to see if that's somewhere in this
23	stormwater management facilities when the	23	report. If it's not, we'll we'll provide
24	invasives could be across the entire site?	24	the document as a Late-Filed exhibit.
25	You're talking about 20 acres of disturbed	25	MR. HANNON: Okay. And I
	Page 224		Page 226
1		1	Page 226 didn't see it. So if it's there
1 2	land that takes up the site. I didn't see	1 2	
	land that takes up the site. I didn't see anything related to long-term monitoring and		didn't see it. So if it's there
2	land that takes up the site. I didn't see	2	didn't see it. So if it's there MR. SMALL: Right.
2	land that takes up the site. I didn't see anything related to long-term monitoring and treatment of invasive species after	2	didn't see it. So if it's there MR. SMALL: Right. MR. HANNON: that's fine.
2 3 4	land that takes up the site. I didn't see anything related to long-term monitoring and treatment of invasive species after construction.	2 3 4	didn't see it. So if it's there MR. SMALL: Right. MR. HANNON: that's fine. And I know there were comments made about a
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30 (Pages 223 to 226)

	Page 227		Page 229
1	specifically for the information in terms of	1	
2		2	And the balance of my
3	where the test pits were, what they were reviewed for. I mean, I understand the		questions really go back to the Map C310.
		3	There was a comment made, I believe, at the
4	borings were probably done to determine where	4	public hearing that an oil-water separator
5	ledge was, but I I also want an answer as	5	was to be installed on site. Did I hear that
6	to where the test pits were and what they	6	correctly?
7	were reviewed for?	7	THE WITNESS (Donovan): That's
8	THE WITNESS (Gresock): And	8	correct. Yeah.
9	are you talking about geotechnical test pits,	9	MR. HANNON: Where?
10	or are you talking about the test pits that	10	THE WITNESS (Donovan): Just
11	Dean would have dug to support the wetland	11	give me a few moments.
12	delineation, or both?	12	MR. HANNON: Uh-huh.
13	MR. HANNON: I'm not even	13	THE WITNESS (Donovan): I have
14	looking at a wetland area.	14	to find my way.
15	THE WITNESS (Gresock): Okay.	15	We don't have that. We don't
16	MR. HANNON: I'm looking at	16	have the location handy right now.
17	the soil conditions associated with the	17	MR. SMALL: Again, we can
18	upland soils, because both the Paxton and the	18	we can provide that in a Late-Filed exhibit.
19	Woodbridge are susceptible to having	19	MR. HANNON: All right.
20	hardpans, which explains why there may be a	20	Well, this is this is part
21	high groundwater table.	21	of the reason why I'm asking is because I'm
22	So I'm curious as to what the	22	looking at the drainage system from
23	testing of the soil might have been, in any	23	Stormwater Renovation Area B. It looks as
24	of those test pits. And if there weren't	24	though there are two outlets at that
25	test pits done where the detention basins are	25	structure. One identifies an outlet
	Page 228		
			Dage 230
			Page 230
1	proposed, that's something that should be	1	structure with an invert elevation of 821.
2	proposed, that's something that should be done, because I just want to make sure that	2	structure with an invert elevation of 821. That's fine. That's, I believe, also sort of
2 3	proposed, that's something that should be done, because I just want to make sure that what you are proposing is not going to be	2 3	structure with an invert elevation of 821. That's fine. That's, I believe, also sort of the base elevation of that detention pond.
2 3 4	proposed, that's something that should be done, because I just want to make sure that what you are proposing is not going to be underwater to start with.	2 3 4	structure with an invert elevation of 821. That's fine. That's, I believe, also sort of the base elevation of that detention pond. There's another pipe that is a
2 3 4 5	proposed, that's something that should be done, because I just want to make sure that what you are proposing is not going to be underwater to start with. THE WITNESS (Jones): Okay.	2 3 4 5	structure with an invert elevation of 821. That's fine. That's, I believe, also sort of the base elevation of that detention pond. There's another pipe that is a 24-inch RCP, a little bit to the left of it,
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31 (Pages 227 to 230)

	Page 231		Page 233
1	Certainly.	1	there's a note on the map that says:
2	MR. HANNON: Okay. And the	2	"Drainage easement in favor of Lot 9A."
3	reason I'm I'm bringing up these issues,	3	THE WITNESS (Jones): Yes.
4	and why, in particular, I'm interested in	4	MR. HANNON: Now, is lot 9A
5	where the oil-water separator is located, is	5	only that 6-acre parcel that is
6	your taking the water from Renovation Area B	6	THE WITNESS (Jones): Yes.
7	and it's, in essence, being piped down	7	MR. HANNON: Okay. So my
8	towards the drainage easement. You're taking	8	question is: If the easement for draining
9	a chunk of the water from Renovation Area A,	9	water there is in favor of Lot 9A, does that
10	and you're also running that in from a	10	take into consideration draining the entire
11	different direction into a small area.	11	site to that point?
12	You've got some slopes that	12	THE WITNESS (Jones): So I
13	are ranging from 8.9 percent down to 2 and a	13	think it's a little bit of a legal question
14	half coming in from one direction. The other	14	and an interpretation of the easement
15	direction from the Retention Area A is 14.3	15	would you know, the easement language
16	and 5 percent. And I have some doubts as to	16	would probably be consulted.
17	whether or not those pipes ending in a riprap	17	MR. HANNON: Absolutely
18	area is going to survive. I mean, there's a	18	correct. But I'm saying, based on what's
19	lot of slope there. There's a lot water	19	here, it says the easement drainage
20	coming in through there. So I'm just curious	20	easement is in favor of lot 9A.
21	that that's not going to create a problem	21	THE WITNESS (Jones): Yes.
22	with what is being proposed for the outlet,	22	MR. HANNON: So I'm just
23	actually, into that drainage easement.	23	trying to make sure.
24	THE WITNESS (Jones): And	24	THE WITNESS (Jones): So, in
25	and that's on the easterly	25	addition, we we would note that there is
	·		·
	Page 232		Page 234
1	Page 232 MR. HANNON: That's on C310.	1	
1 2	MR. HANNON: That's on C310.	1 2	Page 234 no increase in runoff going over into that area.
	MR. HANNON: That's on C310. THE WITNESS (Jones): on		no increase in runoff going over into that area.
2	MR. HANNON: That's on C310.	2	no increase in runoff going over into that
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2 3 4	MR. HANNON: That's on C310. THE WITNESS (Jones): on the easterly into the drainage easement?	2 3 4	no increase in runoff going over into that area. MR. HANNON: Are you talking about maximum flow or total? THE WITNESS (Jones): I'm
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32 (Pages 231 to 234)

Page 235 Page 237 1 being. Thank you. 1 rate and location, and -- and assumes that an 2 2 THE CHAIRMAN: Thank you. aircraft circling would choose to do so over 3 3 Mr. Lynch. the stack, as opposed to in other locations. 4 MR. LYNCH: Mr. Chairman, I'd 4 MR. LYNCH: Thank you. I came 5 like to, first of all, apologize to you and 5 in the middle. I didn't get all the numbers. 6 6 I have them now. Thank you very much. the council members and the applicant 7 because, due to a personal situation, I'm not 7 The second clarification I'd 8 really up-to-date on the proceedings. I have 8 like to get is on the -- the benefits to 9 some catching up to do. So I just wanted to 9 Connecticut and the benefits to the region 10 10 explain that. costwise. And my question is: Are -- did -were these submitted also to ISO New England 11 But that having been said, I 11 12 do have some clarifications from some of the 12 for their verification? 13 early testimony this morning. And I walked 13 THE WITNESS (Bazinet): No, 14 14 into the middle of Mr. Ashton's they were not. 15 cross-examination on the air traffic flight 15 MR. LYNCH: And, lastly, 16 patterns, and I heard 300 feet and 270 feet. 16 again, just a clarification. If my teamster 17 17 buddies are right in the -- in transporting a Could -- could you go over that again, if you wide or heavy load, this all has to be done 18 don't mind. 18 in -- in the afternoon? It cannot be done in 19 THE WITNESS (Gresock): The 19 20 air traffic restrictions that exist vary 20 the evenings, if you're transporting the 21 under visual flight rule conditions and under 21 turbines? 22 instrument flight rule conditions. VFR 22 THE WITNESS (Donovan): We 23 traffic pattern altitude, as recommended by 23 haven't determined that yet. We haven't 24 the airport manager, is at 1700 feet above 24 determined the day of -- the time of day 25 mean sea level, which would have the aircraft 25 to -- for the deliveries and the transport. Page 236 Page 238 1 no lower than 720 feet above stack top. 1 MR. LYNCH: Well, from what my 2 There's also a VFR traffic 2 teamster buddies tell me, it has to be done 3 pattern altitude that is recommended by the 3 during the day. It can't -- wide loads can't 4 Aircraft Owners and Pilots Association, which 4 go at night. 5 is at 1803 feet above mean sea level, which 5 THE WITNESS (Donovan): Okay. б would be aircraft at a minimum of 823 feet б MR. LYNCH: That's why I'm 7 above the stack. 7 probably just -- thank you, Mr. Chairman. 8 There is an instrument flight 8 THE CHAIRMAN: Okay. Thank 9 9 rule condition for the circling minimum you. 10 descent area which could result in aircraft 10 Okay. I guess it's my turn. 11 circling above at an elevation -- a minimum 11 Starting with Exhibit 1, 12 elevation of 1,280 feet above mean sea level. 12 page 17, the last sentence above stormwater, 13 13 it says that -- well, it said, in 2010, to So that would be a minimum of 300 feet above 14 14 permit the project -- required to obtain RGGI stack tops. allowances each year to match its annual CO2 15 And then, as we've been 15 16 considering the way in which aircraft might 16 emissions. Could you please elaborate on 17 use the space that's within the vicinity of 17 that. 18 the project, there is a hypothetical that a 18 THE WITNESS (Seller): Yes, 19 19 missed approach -- a missed approach area is sir, Mr. Chairman. 20 quite large. And there's a hypothetical that 20 RGGI is the Regional 21 missed approach movements could result in 21 Greenhouse Gas Initiative, and that is a 22 aircraft being at a height -- a minimum 22 carbon or, specifically, carbon dioxide cap height of 277 feet above the stack, which is 23 and trade program that several of the 23 24 something that was calculated using a series 24 northeastern states have voluntarily joined. 25 25 of conservative conditions about climbing That cap and trade program

33 (Pages 235 to 238)

January 29, 2015 Page 239 1 1 results in auctions of allowances of -- of 2 2 carbon dioxide. And any power plant greater 3 than 25 megawatts would be required to 3 purchase a CO2 allowance for every ton of 4 4 5 carbon dioxide that it emits on a -- on a 5 6 6 real basis. So it's on -- based on actual 7 7 emissions. 8 8 THE CHAIRMAN: Okay. 9 9 And on page -- and I guess I 10 10 understand a little bit better your tables on 11 page 24. But on page 26 -- well, at some 11 12 point, you say that your -- with your new 12 13 technology, you would totally comply, I 13 14 14 believe, with all regulations. 15 But then, on page 26, you 15 where --16 state that to comply with the requirements of 16 17 nonattainment of source review for nitrogen 17 18 oxides, you have offsets -- and I think you 18 19 have other offsets. So how do -- what is the 19 20 20 extent of the offsets, and why do you need 21 offsets, and where would you get them, if, in 21 2.2 fact, you're in full compliance? 22 23 THE WITNESS (Seller): Sure. 23 24 24 Thank you.

and Environmental Protection require new sources to obtain offsets that meet certain criteria.

And they are -- basically, they have to be offsets from existing -- from actual emissions from a previously permitted power plant or -- or other source. And they have to be in -- in excess of any other emission reduction requirement that have been -- been applied to those sources, and they must be federally enforceable by being incorporated into the permit that the facility will receive.

THE CHAIRMAN: Where --

THE WITNESS (Seller): And they -- they have to meet certain geographical requirements. The offsets have to come from the same or contiguous nonattainment area of -- of equal or greater nonattainment severity.

THE CHAIRMAN: Have you determined where you would get the specific offsets from?

THE WITNESS (Seller): The

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to there are part of nonattainment new source review provisions. Because Connecticut, like most of the Northeast, is not attaining the

The offsets that are referred

national ambient air quality standard for ozone. And as a result, any facility that is to be permitted within that region must

б 7 obtain nitrogen oxide allowances per the 8 Connecticut Department of Energy and

9 Environmental Protection's rules. 10

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So this doesn't relieve the project from meeting all other air quality standards or air quality requirements. It's an additional requirement that's placed on all new facilities to obtain offsets. And the rationale behind that is ozone is not directly emitted from a power plant. In fact, very, very few sources directly emit ozone.

Ozone is created in the atmosphere by a series of photochemical reactions from a number of precursor pollutants. And nitrogen oxide is the most important of those precursor pollutants. So the United States Environmental Protection Agency and Connecticut Department of Energy Page 242

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facility currently holds 177 offsets from -from before, and those offsets are still valid. There will be an additional 57 offsets that are required prior to operation, and those would have to come from either Connecticut or an upwind state, a contiguous nonattainment area, most likely from Long Island, for example, or New York.

THE CHAIRMAN: So it's not -you don't get them from an existing power plant?

THE WITNESS (Seller): What happens is, when a facility makes a reduction in emissions, either by shutting down and surrendering its air permit or by applying emission controls above and beyond what's required by law, they can qualify to generate something called "emission reduction credit."

And so when a facility shuts down, it will -- it will receive an emission reduction credit. They then can sell that emission reduction credit to a new facility who can convert the emission reduction credit into an offset.

THE CHAIRMAN: Okay.

34 (Pages 239 to 242)

Page 243 Page 245 1 1 We talked about particulates. ambient air quality standards, but of 2 2 That's obviously of concern, even though existing particulate levels. 3 3 compared to the previous proposal is reduced, THE CHAIRMAN: Okay. 4 but it's still -- do you -- have you mapped 4 I -- I personally think it 5 sort of the dispersal, so people would get a 5 would be very helpful to -- to see those --6 6 sense of where these -- maybe it's in here the modeling of however you --7 7 and I missed it -- where these particulates THE WITNESS (Seller): Sure. 8 8 actually would land? THE CHAIRMAN: And as far as 9 9 THE WITNESS (Seller): Yes. SO2 and the nitrogen oxide, they get 10 10 We've generated something called "isopleths." dispersed in the air. Where -- where do they 11 We can certainly provide those to you. But I 11 end up? 12 can sort of characterize them generally now, 12 THE WITNESS (Seller): Very, 13 and we'll provide the isopleths as a 13 very similar situation. Those -- the maximum 14 Late-Filed exhibit. 14 concentrations of those pollutants would 15 The maximum concentrations 15 similarly be at the fence line and drop off 16 of -- of particulates, specifically PM 2.5, 16 rapidly with distance in all directions. 17 17 THE CHAIRMAN: Then maybe -the highly respirable fine particulates, 18 occurs immediately at the fence line of the 18 it's always been my understanding that the 19 facility and drops off --19 issues of acid -- acid rain, which affected, 20 THE CHAIRMAN: Is that by 20 for example, the Adirondacks and Catskills, 21 coincidence or --21 didn't come from any close by power plants. 22 22 They came from Ohio and other places. THE WITNESS (Seller): Well, 23 it's because -- from a number of -- of 23 So are you telling me that, in 24 24 this case, these things don't get dispersed factors --25 25 and end up -- my guess would be, based on THE CHAIRMAN: Okay. Page 244 Page 246 1 THE WITNESS (Seller): --1 that analogy, which may be incorrect, in the 2 because of the height of the stack, which is 2 Atlantic Ocean, which already has some issues 3 relatively short compared to some other 3 with acid -- acidity? 4 facilities. It's not unusually short but on 4 THE WITNESS (Seller): That 5 the lower end of height. But more 5 that's correct. The -- all of the emissions, 6 importantly, because the conditions that 6 yeah, get dispersed. In this particular 7 result in the highest concentration of 7 case, the maximum concentrations of sulfur 8 particulate would be when there are extremely 8 dioxide would be right at -- at the -- at the 9 light wind speeds. And -- and under those 9 property boundary. 10 conditions, the maximum concentration winds 10 A lot of the sources that you 11 up being very, very close to the stack. 11 referred to, in the Midwest, tend to be older 12 12 coal-fired power plants that have extremely So the maximum concentrations 13 that are predicted by the model, basically 13 tall stacks, some as high as a thousand feet. right at the fence line, those concentrations And in those situations, the -- the exhaust 14 14 15 plume can -- can actually get right into a 15 are the ones that are then used to 16 16 cloud and transport a considerable distance demonstrate compliance with the ambient air 17 quality standards, which the facility does. 17 before it's -- it's deposited. 18 The concentrations drop off 18 So, in addition to having to 19 19 extremely rapidly with distance from the demonstrate compliance with the ambient air 20 fence line in all directions. So by the time 20 quality standards, all new power plant 21 you get to, say, the town of Middlebury line 21 sources have to -- new and existing power 22 or the Naugatuck State Forest or the Quassy 22 plant sources have to participate in an acid 23 23 Amusement Park or the Westover School or rain cap and trade program, similar to what

35 (Pages 243 to 246)

we talked about before and -- as far as

getting allowances. And that market-based

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Oxford Greens, those levels are extremely

small, a minute fraction of not only the

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cap and trade system has driven down the total of loading of sulfur dioxide basically in the United States by a considerable fraction, which has resulted in improvements to acid rain.

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One of the -- the biggest differences, of course, between a natural gas-fired power plant and those coal plants with the very, very large stacks as in a natural gas power plant, and it's only a tiny fraction of the sulfur dioxide that a large coal plant would be.

Similarly, when -- when this project was -- was originally approved, the amount of sulfur dioxide was a lot higher because it was prior to the introduction of ultralow sulfur distillate fuel oil, and it was originally approved with -- with just regular low sulfur fuel, so sulfur dioxide would have been considerably higher.

THE CHAIRMAN: Okay.

Since you said most of the pollutants would end up no further than the fence line, is there either a need, and if there is, a way to clean it up? I mean, do

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Wetlands 2 and 3 which, I understand, have been designated to be very important wetlands in the APT report.

Can you tell me what, if all the particulate or all the significant amount of particulate matter is falling either at the fence line or in -- within the fence line, that would be in those biofiltration -those two stormwater ponds. What happens when it hits the water, and where is that water going, and how are we going to protect both those two wetlands, as well as the water that's being held within the fenced compound?

THE WITNESS (Seller): Again, Dr. Klemens, there's, of course, always going to be a point of maximum impact somewhere. And the way that the air regulations are is it has to demonstrate that, even at that point of maximum impact. There is no detrimental effect.

The -- the concentrations of sulfur dioxide being as low as -- as they are, .03 micrograms per cubic meter, and the impact concentration of particulate on an annual average basis being 0.2 micrograms per

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we want these -- you know, if it rains SO2 it turns into sulfuric acid. I mean, do we want these things to -- or is it -- I just don't understand.

THE WITNESS (Seller): Yeah. There's always going to be maximum point of impact. In this case, the maximum point of impact is near the fence line, but that number is an extremely small number. It's -it's an insignificant fraction of what the current ambient air quality levels are.

As -- as an example, the maximum impact, on an annual average basis, of sulfur dioxide would be .03 micrograms per cubic meter, compared to an ambient air quality standard of 80 micrograms per cubic meter. So you can see that there's an incredibly insignificant fraction of that standard.

THE CHAIRMAN: Okay. Dr. Klemens, you had a --DR. KLEMENS: I have a

follow-up question on this. It's a very interesting discussion. I noticed, on the western boundary, the fence line, there's Page 250

1 cubic meter compared to an ambient air 2 quality standard of 12 would indicate that 3 the ambient concentrations are very low. And 4 we would not expect a lot of deposition from 5 a gas-fired power plant.

> DR. KLEMENS: In -- in wetlands, because we're not talking just about falling on the Earth. We're now talking about falling on wetlands and in stormwater ponds which have the ability to concentrate and do other things with those pollutants.

> > THE WITNESS (Seller):

Correct.

Again, the concentrations and the deposition are really very, very small. And then, beyond that, under the Prevention of Significant Deterioration regulations, we also did analyses of impacts to soils and vegetation, and looking at the most sensitive vegetation. So that would certainly include vegetation that would be expected to be in a wetland system.

DR. KLEMENS: So, in your professional opinion, the waters that are

36 (Pages 247 to 250)

Page 251 Page 253 1 going to leave the site and eventually go 1 that other airports have penetrations dating 2 2 downhill into the -- Jacks Brook and 50 years ago, I don't think is necessarily a 3 ultimately the Naugatuck River, those are not 3 good analogy. So I just -- I just mention 4 going to be polluted by these concentrations 4 that. I think, at some point -- and 5 of particulate matter? 5 obviously, this is for the FAA to ultimately 6 THE WITNESS (Seller): 6 determine. An airport, if it's now 7 7 That's -- that is my technically unsafe, it may become less 8 8 desirable to fly in and out of if you're testimony. 9 9 DR. KLEMENS: Thank you, sir. having to -- to deal with an increasing 10 10 Thank you, Mr. Chairman. number of penetrations. 11 THE CHAIRMAN: On the air 11 THE WITNESS (Gresock): And it 12 navigation -- and I'm only going to ask a 12 is something that we'll be waiting for the 13 couple of questions because I think we're 13 FAA to study. But I will say that the same 14 14 going to have more extensive discussion with situation existed in -- in their evaluation 15 several of the intervenors, but -- and this 15 and their review the -- the last time. And those stacks, at this height and at a -- at a 16 information -- we may already have it -- but 16 17 17 is this, the airport, is that primarily -- is location that impinged on additional areas, 18 it private, is it commercial, is it both? 18 has been valid for the project stacks as 19 THE WITNESS (Gresock): The 19 recently as 2011, and went through the 20 airport is owned by the Connecticut Airport 20 same -- the same review process, the same 21 Authority and has a number of different type 21 circularization and public review. So 22 of aircraft that -- that fly out of it. I 2.2 we'll -- we'll see. 23 have statistics for 2012, where there were 23 THE CHAIRMAN: Thank you. 24 47,987 total operations, and there were 128 24 Just on -- on the issue of 25 25 single engine, 8 multiengine, and 31 jet water supply and use, again, page 26. I Page 252 Page 254 1 1 think you mentioned that the -- in general, aircraft based at the airport in that year, 2 plus one helicopter. 2 the water demand is less than of the 3 THE CHAIRMAN: Okay. 3 previous. There's a substantial increase if 4 And can you, if you haven't 4 and when you have to use the oil as a fuel. 5 already, can you provide the flight pattern 5 And I think that may have been 6 for the -- for the runways? Because, to me, 6 also noted -- I'm not sure -- in the -- I'm 7 that's more significant than people flying up 7 not sure -- in the letter from the Department 8 overhead at whatever the altitude you 8 of Health, but that is a question of what 9 9 mentioned. there seems to be. And it seems to be, the 10 THE WITNESS (Gresock): So an 10 answer is, well, hopefully, we only -- we 11 illustration of the various flight pattern 11 will only need the oil for a very limited 12 12 areas would be helpful? amount of time. 13 THE CHAIRMAN: Right, 13 But if, all of a sudden, there 14 particularly -- primarily for landing, 14 are issues with gas supply, that -- that 15 15 because -limited amount of time might be significant. THE WITNESS (Gresock): We 16 16 And then your reserves that you have are, I 17 17 can -- we can certainly do that. It always think, could be an issue. 18 18 helps to be clearer with a picture. THE WITNESS (Bazinet): So 19 19 THE CHAIRMAN: All right. in -- in thinking about what would be the 20 And I guess this is more of a 20 appropriate water supply for exactly those 21 21 conditions, we conducted a pretty detailed comment than a question, although you can 22 22 analysis of our expected dispatch for respond. But I am -- the fact that there are 23 23 already penetrations -- I think that's what operation over last winter using historical 24 you call -- or obstacles, I'm not sure its 24 values. 25 25 necessarily a good idea to add. And the fact Last winter was, in the last

(Pages 251 to 254)

Page 255 Page 257 1 25 years, one of the two worst winters on 1 2015, Department of Public Health, actually 2 2 record and experienced from, at least a gas it's to the Siting Council. And the fifth 3 3 supply interruption standpoint or bullet on the bottom of page 1 talks about 4 curtailment, effectively unprecedented. So 4 the original -- CP -- CPM notes that HWC --5 in -- in doing that, we came up with an 5 and these are not my requests to initial 6 б expected dispatch profile of 541 hours in 15 everything -- but has a limited supply of 7 7 separate instances, of which we would have water available to provide to the project. 8 been able to satisfy all 15. And in only two 8 Have you found it? 9 instances would the dispatcher request have 9 And therefore, says, you need 10 10 been longer than the 52 hours that we would more. And they, apparently, in 2010, the 11 be able to support. 11 Department of Public Health allowed this to 12 12 happen. And I think it just begs the THE CHAIRMAN: Okay. 13 13 question, particularly if we run into very Mr. Hannon has a follow-up. 14 14 MR. HANNON: It talks about, dry years, which we haven't for a few years, 15 again on page 26, 720 hours of -- of, I 15 but we certainly have in the past, if you're 16 guess, operating by oil. Is -- is that part 16 having to, you know, get water from one place 17 17 of the application from the resource review which has to get water from another place, program? Is that a limit that's in the 18 18 what is the impacts going to be on aquifers 19 application itself? 19 and the rivers? 20 THE WITNESS (Gresock): Yes, 20 THE WITNESS (Bazinet): So 21 21 the -- the issue that you're referencing is that's -- that's the number of hours to which 2.2 we -- we would be restricted under that 22 not unique to Towantic as a member -- or as a 23 23 customer of Heritage Village Water Company. permit. 24 MR. HANNON: And are there any 24 And there has been a commitment letter that's 25 25 been issued from Heritage Village that is exceptions or exemptions from that limit? Page 256 Page 258 1 THE WITNESS (Gresock): No. 1 conditioned on exactly that interconnection 2 2 MR. HANNON: Thank you. that's referenced. 3 THE CHAIRMAN: Also, on the 3 So that -- with that, they've 4 subject, a letter, dated January 8, 2015, 4 reviewed their water supply plan. And my 5 from the Department of Public Health, it 5 understanding is that they're in the process б states on the bottom of the first page 6 of updating that currently. But factoring in 7 that -- where is it -- the water company, 7 the what -- the -- the project's requirements 8 which is Heritage, whatever, H -- HWC, it 8 over the long term -- I believe it's 50 years 9 9 says they have enough -- a limited supply of is what they look at -- there's -- assuming 10 water available to provide for this project, 10 that that interconnection exists, there's 11 and therefore, they need additional source. 11 sufficient supply for the project and all of 12 And that, in 2010, the Department of Public 12 the other customers -- excuse me -- of 13 13 Health issued a sale of excess water permit Heritage Village, for that matter. to the Connecticut Water Company in 14 14 THE CHAIRMAN: Do we know when 15 that updated report is going to be available? 15 Naugatuck. THE WITNESS (Bazinet): No. 16 16 So is that -- is that -- do 17 you agree with that -- that statement, and 17 No, I don't. My understanding is right now 18 18 they're in the middle of a -- a rate case therefore, is it therefore correct that your 19 19 main water provider doesn't even have enough that's consuming the -- the lion's share of 20 water to satisfy your needs without getting 20 their time. But their report, I believe, is 21 this additional water or am I misreading it? 21 in draft form. 22 22 THE WITNESS (Jones): I'm THE CHAIRMAN: And just also 23 23 sorry. As I was looking for the document, to reiterate what I stated previously, the could you just reference the --24 last page of that letter, the last sentence, 24 25 25 the sentence does raise the issue that the THE CHAIRMAN: January 8,

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Page 259 Page 261 1 water demand has increased for -- in some 1 region. 2 2 operational modes. And I assume that's So do you want to comment, 3 mainly when the oil is used. 3 because I'm concerned that you really did not 4 But, I guess, they're asking 4 give enough attention to the demand side. It 5 you to demonstrate that you're optimizing 5 was too heavily on the supply side. 6 6 water conservation opportunities. And I THE WITNESS (Powers): And 7 7 assume you intend to respond to the public you're correct. Those -- those measures are 8 8 health, that you're -- everything else seems all making --9 9 to be, you know, state of the art, up to THE CHAIRMAN: I'm correct 10 date. But the one area -- one of the areas 10 that they didn't or --11 where there's a significant increase in usage 11 THE WITNESS (Powers): I'm 12 happens to be in the -- in the need for water 12 sorry. Correct that those are all making 13 when your oil is being used. 13 important contributions to reduction in 14 14 demand. But the Connecticut IRP, the draft THE WITNESS (Bazinet): So --15 so we've -- while that's absolutely true, 15 IRP that was just released, as well as ISO 16 we've taken every effort to incorporate 16 New England, is still projecting, I think, 17 17 conservation measures into the project, about a half a percent a year increase in 18 substantially on the discharge side, as well 18 demand. So it would be higher but for those 19 as the supply of water side. We -- we 19 types of -- of measures being successful. 20 unfortunately cannot change the water demands 20 THE CHAIRMAN: And one could 21 of the facility while ultralow sulfur 21 also argue that, if we continue to invest in 22 distillate is the fuel that's being operated 22 those programs, it could also be lower over 23 23 the next 10 or 20 years? 24 What we've done to try to 24 THE WITNESS (Powers): You 25 mitigate our impacts during those conditions 25 know, it's -- it's hard to say. I mean, Page 260 Page 262 1 is limit the amount that we would take on a 1 it's --2 daily basis from Heritage Village to no more 2 THE CHAIRMAN: You don't have 3 than what was previously approved. So that, 3 to answer. That was probably more of an 4 obviously, creates a balancing act between 4 opinion, but one which this person --5 managing a continuous production capacity. 5 individual -- I also want to bring your 6 But we felt that, in doing that, and 6 attention to something, and that, I think, 7 analyzing the worst, you know, one of the two 7 the Council is very proud of, and that's the 8 worst winters on record over the past 25 8 10-year forecast of Connecticut electric 9 9 years, we've -- we've fairly accomplished loads, which staff, and Mr. Perrone is the 10 minimizing the amount of water we would take 10 prime author -- and I'm not going to say how 11 relative to the expected oil-fired operation 11 good he is because somebody might steal him 12 12 for the facility. some day -- but in a couple of -- in this 13 13 THE CHAIRMAN: I'm now going report, which, I think, in many ways is 14 14 to Exhibit 2, I guess, your market analysis. similar to ISO, it -- I think it states that 15 I know that these were mentioned, but I 15 in the -- in the future, the planning future, 16 think -- I'm not sure you gave them as much 16 that there really is no need for additional 17 weight as perhaps you should have. And that 17 generation, certainly in Connecticut. 18 has to do with improvements and the 18 And I know we've been back and 19 19 combination of energy efficiency, forth and you've -- you've commented, but 20 conservation -- which I would put in bold and 20 when you add in those demand changes, and 21 highlight -- distributed generation, the use 21 also the large investments with -- in 22 of microgrids and fuel cells, all of which, 22

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transmission facilities, which this Council

really -- it really is hard to -- or I have

trouble making the case that this plant is

has been involved in the approval of them, it

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if I have read the information correctly, are

it in the state and, hopefully, in the

actually reducing the demand, not increasing

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Page 263 Page 265 1 1 really needed, at least on the issue of to the Council. And the paragraph noted 2 2 market. energy supply context, where they reference 3 3 Now, maybe the issue of the that estimates of generous -- generation 4 environment, and if this really results in 4 capacity in New England that will be lost to 5 closing down of other older plants, but in 5 retirement over the next five years vary from 6 the market, from these reports we have, 6 a conservative 3200 megawatts for known, 7 I'm -- I'm at somewhat of a loss of really 7 formally announced retirements, up to 8 8 seeing the need. And, you know, part of our 8,300 megawatts of capacity being at risk of 9 9 job is to balance need with the impacts. retirement in that same period. And that's 10 10 THE WITNESS (Powers): I think per ISO New England's estimate. 11 from, and as Andy has mentioned before, from 11 So the addition of our plant, 12 a regional perspective, I think it's -- it's 12 it's not just us on an island saying this is 13 clear that we do need generation. From --13 needed. I feel like the Department of Energy 14 from a local perspective, in terms of pure 14 and Environmental Protection sees it that way 15 megawatts, the -- the state of Connecticut 15 as well, as well as ISO New England. 16 has enough pure megawatts to meet reliability 16 THE CHAIRMAN: Okay. We just 17 17 got it. I haven't had a chance to read it requirements. 18 I think the piece that -- that 18 yet -- maybe you haven't, either -- a letter 19 we're missing that we haven't talked about, 19 from the Department of Energy and 20 there's -- there's two pieces of reliability. 20 Environmental Protection on some of these 21 There's megawatts, which is the adequacy of 21 issues. But I can't talk and read at the 22 generation in the ground, but there's another 22 same time. I have certain limitations. 23 piece of resource adequacy -- or adequacy, 23 MR. SMALL: But that's a 24 which is security, which is the ability of 24 letter, Mr. Chairman, that we were referring 25 the system to sustain instantaneous changes. 25 to. That's -- it discusses this issue Page 266 Page 264 directly. 1 So -- and that's what the transmission 1 2 improvements were designed to get at, was the 2 THE CHAIRMAN: All right. 3 security piece of reliability. 3 Mr. Lynch. 4 And I think the most recent 4 MR. LYNCH: Just as a 5 ISO Southwest Connecticut needs assessment 5 follow-up. You keep mentioning the region. б showed that, while there have been great 6 Could you define "the region"? Does it 7 strides in addressing local reliability 7 include the tristate area of New York, or is 8 requirements in terms of security with the 8 it only New England? 9 addition of transmission, there -- there are 9 THE WITNESS (Bazinet): Just 10 still some local concerns that ideally are 10 New England. 11 addressed with transmission, in addition to 11 MR. LYNCH: Thank you. 12 local generation, that gives the ISO more 12 THE CHAIRMAN: And Dr. Bell. DR. BELL: Just a follow up on 13 flexibility to dispatch resources and to 13 14 address instantaneous disturbances on the 14 when we're talking about the New England 15 region needs, and so forth. Isn't it true, I 15 system. 16 THE WITNESS (Bazinet): I'd 16 believe -- and I'm not sure which page it's 17 17 on in your CEA report, but it -- I -- I like to add one small piece to that -- and I 18 apologize for any redundancy -- but the 18 believe it's in there, and it certainly would 19 19 economic impacts of the regional shortage is be something that you would know from other 20 felt across the region and in Connecticut, 20 sources, ISO, that the two most constrained 21 specifically due to the nature of Connecticut 21 regions in New England are in Rhode Island 22 22 and southeastern Massachusetts, which is being an import-constrained zone.

40 (Pages 263 to 266)

basically the Boston area. If anybody has

been to the Boston area lately and looked

around, you can see the huge amount of energy

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And furthermore, that's

emphasized by the Connecticut Department of

Energy and Environmental Protection's letter

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going into all those construction projects all over Boston, and then we get into the past of how much energy they needed for the Big Dig, and so forth and so on.

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So this is not -- this is common knowledge. And that seems to be what -- where ISO says the two most constrained regions are for now and the foreseeable future. So, really, all that -the regional impetus is towards providing energy for Rhode Island and -- well, northern Rhode Island, which is, again, feeding into the Boston area and -- and southeastern Massachusetts.

So my question is: Even at a regional level, quite apart, we discussed Connecticut and the lack of need in Connecticut, but even at a regional level, a gas plant in, arguably, west central Connecticut, where the transmission difficulties we know are east-west difficulties, not north-south difficulties -and that's what the Council has been trying to remedy, both in -- in the Middletown to Norwalk peak and Plumtree peak and in the Page 269

Southeastern Massachusetts and Rhode Island was 4FCA9 -- to be conducted on Monday actually -- is newly -- is a newly deemed import constrained zone.

So there's two distinctions I'd like to draw: The -- the distinction between, one, an import constrained zone; and two, the actual supply demand balance within that zone.

And you're absolutely on the money that Connecticut, when you look at it in isolation as an import constrained zone, has a surplus of capacity. And northeastern Mass, as recently as, I believe, '13, was short of capacity. And SEMRI, Southeastern Mass and Rhode Island, is expected to be short of capacity for this auction. The rest of pool -- so the rest of the region is also short of capacity.

In fact, in FCA9, at a minimum, the rest of pool needs to procure 2,000 megawatts of new capacity to satisfy the net installed capacity requirement which is the target -- effectively, the target reserve margin for the entire region. That

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NEEWS projects, which are all oriented towards east-west transmission.

Given the need in east of -to the east, and given the lack of -- or constraints -- let's put it this way -constraints, east-west constraints in the transmission system, when you look at it that way, it doesn't seem to be that a plant in west central Connecticut is the best place to serve the most constrained regions in New England.

THE WITNESS (Bazinet): There's quite a few topics there, so I'm going to try to start in reverse order with the last.

So electrically, this plan's location is deemed to be in southwest Connecticut. And while it's true that many of the projects -- transmission projects that have been completed to relieve the east-west transfer, notably, including Lake Road as a new -- effectively, a new generating resource in Connecticut, Connecticut remains an import constrained zone just like northeastern Massachusetts and southeastern Massachusetts. Page 270

can come from anywhere in the region.

The last point I'd like to make is that, although -- and again, I apologize if I'm -- if this is a bit redundant -- but that -- there's been a lot of discussion and -- in the ISO New England world and others, around the expectation for future retirements. And while Connecticut can reliably say that it's -- or can accurately say that it's meeting its local sourcing requirement today, that's not the expectation for the very near future.

It is expected to -- if -- in other words, if the 2500 or so megawatts of 55-plus-year-old generation were to retire, it would quickly find itself drastically short. And the planning horizon for projects like this for transmission is such that that shortage would be -- would persist for quite some time, and prices would respond to that.

So the proposal that we put in front of you is, one, satisfying both the regional need, and as a result, a need that translates to Connecticut, but a forecasted need is -- I'm sorry -- a regional current

41 (Pages 267 to 270)

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need, but a forecasted local need as well. DR. BELL: I thank you for your answer. It's a complicated matter. There are many factors. I just have one follow-up.

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When I have made statements or asked questions that's in relation to the -it's with the IRP in the background, as I stated to begin with. And I do note that the IRP has in it strategies for how to meet the need going forward on these various fronts that you've been mentioning.

And I put it to you, have you seen, in the IRP -- and they have, I think it's eight resource strategies that they -that they give for how to meet any needs that they see. And my question is: Have you seen anything in those strategies that mentioned the word "gas plant, large gas plant"?

THE WITNESS (Bazinet): You'll have to pardon me while -- while I find the reference in the document.

THE WITNESS (Powers): So I think it addresses several strategies in the executive summary for ensuring the -- the

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DR. BELL: Yes. If you look at the actual -- I think you're following the executive summary, and it does say that. If you actually look at the text behind which, you know, is multipages, at the end there, the question is: To what extent would they want to procure fossil fuel generation?

The point that you're making about the demand resources being cast into doubt is a big problem, but it does not have to do with procuring new generation in -- in a conventional sense. It has to do with figuring out how to get demand response back into the market. So that is -- that's a very big question. And I don't -- I certainly don't have any knowledge about an answer.

The other problem has to do with the matter that you also mentioned in your report, which I asked a question about earlier. That is resources that won't be able to enter the market in the way they have in the past because they might be handled through state mandated contracts. And -- but that's a question we're not dealing with here because we're dealing with a proposal for a

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future of Connecticut in terms of reliability. And -- and a lot of these are things that -- that Connecticut and the ISO are promoting and are already doing. I think the one that's important to look at is be prepared to procure new generation.

You know, the market is a very, especially now, very fluid. So Andy mentioned retirements. If you look at the picture today, there's a lot of risk associated with that picture. You've got retirements that are a major risk. While demand response has made, you know, great, great strides in the market, there's a lot of uncertainty around 3,000 megawatts of demand response in New England, with the FERC ruling on whether or not those can play in the markets, as well as how much will come in going forward.

So the -- the IRP specifically states that if the -- if the capacity market can't attract new resources just by setting price signals, that Connecticut will have to be prepared to procure new generation as well.

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1 new plant. 2

So I'm just commenting, but I don't have -- I'm not suggesting that it's material at this instant.

Thank you.

THE CHAIRMAN: Senator Murphy. MR. SMALL: May we respond on that? Can we have just one moment?

Just a brief response.

THE WITNESS (Bazinet):

Just -- I'm sorry. One other -- and I apologize. I know I'm reading from materials that you -- the Council hasn't

yet had an opportunity to review. But, 14 15 again, from the January 28th letter from 16 DEEP -- Connecticut DEEP -- excuse me -- the 17 addition of a 785 megawatt net output of

18 natural gas-fired power from a dual-fuel 19 capability plant will -- will both shore up

20 the supply needs of Connecticut and the 21 region and improve the reliability of the 22 electric system. Further, the ability of the

23 proposed facility to quickly ramp up or ramp 24 down, et cetera et cetera.

So I mean, I -- it's -- it's

42 (Pages 271 to 274)

	Dago 275		Page 277
	Page 275		Page 277
1	our belief that at least the Department of	1	MR. SMALL: I see I may
2	Energy and Environmental Protection sees the	2	be missing it, but I see the Norwalk Harbor
3	same need and believes that a natural	3	units in the potential retirements.
4	gas-fired generation project would be	4	SENATOR MURPHY: Yeah.
5	beneficial to the region as well as the State	5	MR. SMALL: I don't see
6	of Connecticut.	6	them oh, wait.
7	And I'll just note that this	7	SENATOR MURPHY: They're
8	is as of January 2015, whereas, you know, as	8	they're next to the the third and fourth
9	is the case with all studies, you begin, and	9	from the bottom.
10	by the time you're, you know, done, you could	10 11	MR. SMALL: Oh, I see that.
11 12	restart because the assumptions made may or	12	Yes, I see.
13	may not be stale due to short-term market influences.	13	THE WITNESS (Bazinet):
14		14	That and that is an error. The they should only be the retire existing
15	The other point that you made there was the risk well I'm sorry	15	retirement section.
16	the nature of state sponsored contracts. And	16	SENATOR MURPHY: And the
17	the risk associated with moving forward under	17	Montville units, potentially retire, I
18	that type of program is well, it's	18	thought they were down. I thought they had
19	unknown, or it's not defined at this point,	19	been
20	so it's up to the market to respond to market	20	THE WITNESS (Bazinet):
21	need currently. And the proposal that we've	21	There there are still capacity resources
22	kind of put put forth is premised on a	22	that ISO New England relies on.
23	market-based solution that effectively	23	MR. ASHTON: Montville 5 was
24	mitigates that potential risk.	24	gone ten years ago.
25	THE CHAIRMAN: Senator Murphy.	25	THE WITNESS (Bazinet): Yeah.
	The emination is Senator Marphy.		THE WITTNESS (Buzinet). Tean.
	Page 276		Page 278
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1	SENATOR MURPHY: This is in	1	There's
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	SENATOR MURPHY: This is in kind of follow-up to some of the responses made about retirements and potential		There's
2	kind of follow-up to some of the responses	2	There's THE WITNESS (Gresock): Well,
2	kind of follow-up to some of the responses made about retirements and potential	2	There's THE WITNESS (Gresock): Well, we'll double-check those. I know the Montville I know the Montville units submitted retirement requests, but they're
2 3 4	kind of follow-up to some of the responses made about retirements and potential retirements. And your Late File 2I and	2 3 4	There's THE WITNESS (Gresock): Well, we'll double-check those. I know the Montville I know the Montville units submitted retirement requests, but they're not yet officially retired. They still have,
2 3 4 5	kind of follow-up to some of the responses made about retirements and potential retirements. And your Late File 2I and you provided the list of retired facilities and potential retired facilities. And my question really is	2 3 4 5 6 7	There's THE WITNESS (Gresock): Well, we'll double-check those. I know the Montville I know the Montville units submitted retirement requests, but they're not yet officially retired. They still have, I think, two more years on their capacity
2 3 4 5 6 7 8	kind of follow-up to some of the responses made about retirements and potential retirements. And your Late File 2I and you provided the list of retired facilities and potential retired facilities. And my question really is whether you put the two Norwalk Harbor	2 3 4 5 6 7 8	There's THE WITNESS (Gresock): Well, we'll double-check those. I know the Montville I know the Montville units submitted retirement requests, but they're not yet officially retired. They still have, I think, two more years on their capacity obligation.
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	Page 279		Page 281
1	Thank you.	1	(Whereupon, a recess was taken
2	THE CHAIRMAN: And I've got	2	from 3:05 p.m. until 3:12 p.m.)
3	one one more question at this point.	3	THE CHAIRMAN: Ladies and
4	Several places you mentioned as an obvious	4	gentlemen, the five minutes are up. Let's
5	benefit is that, if this plant were to be	5	get back to before we get to the Town of
6	constructed and go into production,	6	Middlebury, which I hope we will very
7	presumably, where there are more less	7	shortly, we have some questions first from
8	efficient plants would go out, that it would	8	Mr. Ashton.
9	lower the wholesale market price.	9	MR. ASHTON: We lost our
10	I think the people, other than	10	applicant.
11	the companies that sell the wholesale to the	11	THE CHAIRMAN: Well, ask them
12	retail market, but I think the people really	12	anyway. If they can't answer, it will be
13	want to know is it going to have a real	13	duly noted.
14	impact on what they're paying for	14	MR. ASHTON: I probably can.
15	electricity.	15	Some of these are more mechanical.
16	Do you have any examples	16	In the Interrogatory 2-D, for
17	anywhere that can make this point?	17	dog, they talk about efficiency winter,
18	THE WITNESS (Bodell): Tayna	18	summer average, unfired, duct-fired, and so
19	Bodell again.	19	forth. And it talks about LHV and HHV.
20	The numbers are not in the	20	Do you know what those
21	report but, obviously, we could provide	21	abbreviations are, and can you explain them
22	those. The estimated reduction in	22	for the untutored?
23	electricity prices for the region is two to	23	THE WITNESS (Donovan): Sure.
24	four dollars per megawatt hour and escalating	24	I can I can take this. The LHV is
25	over time. And for Connecticut, it's three	25	it's LHV stands for lower heating value,
	Dago 280		Dago 282
	Page 280		Page 282
1	to five dollars per-megawatt-hour reduction	1	and HHV is higher heating value. It's all in
2	to five dollars per-megawatt-hour reduction because of the addition of this facility.	2	and HHV is higher heating value. It's all in how the the fuel is purchased.
2 3	to five dollars per-megawatt-hour reduction because of the addition of this facility. And that is as high as it	2 3	and HHV is higher heating value. It's all in how the the fuel is purchased. MR. ASHTON: And what does the
2 3 4	to five dollars per-megawatt-hour reduction because of the addition of this facility. And that is as high as it because of the tight supply-demand	2 3 4	and HHV is higher heating value. It's all in how the the fuel is purchased. MR. ASHTON: And what does the difference mean?
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	Page 283		Page 285
1	specifically at the load flows in the way	1	THE WITNESS (Bazinet): No.
2	that they flow in the model. They may change	2	MR. ASHTON: Has there any
3		3	consideration been given to establishing a
	over time, depending on the capacity, but I		
4	would have to get back to you.	4	nearby impoundment where a large volume of
5	MR. ASHTON: So your answer is	5	water could be stored for later use?
6	you don't know?	6	THE WITNESS (Bazinet): We
7	THE WITNESS (Bodell): Right	7	we haven't considered it. We could look at
8	now, no, I do not know.	8	it.
9	MR. ASHTON: And can you	9	MR. ASHTON: You you could
10	answer that in a late-file?	10	look at it?
11	MR. SMALL: Yes, we can.	11	THE WITNESS (Bazinet): Yes.
12	MR. ASHTON: Okay.	12	MR. ASHTON: It would probably
13	I may have asked this question	13	mean an additional property acquisition. I
14	before. If I have, please forgive me.	14	don't think you're going to do it on
15	Can the unit be fired	15	26 acres.
16	partially on oil, partially on gas; in other	16	THE WITNESS (Bazinet):
17	words, could one unit be fired with oil, one	17	Understood. But, I mean, we could analyze
18	unit fired gas in a shouldered situation?	18	the the feasibility of it, is, I guess,
19	THE WITNESS (Donovan): The	19	what I was referring to.
20	answer is yes.	20	MR. ASHTON: I think a quick
21	MR. ASHTON: Okay. That's it.	21	and dirty look at it might be worthwhile.
22	I'm not looking for it's fairly simple.	22	In looking at the discharge of
23	Has there any comparison	23	water from the plant, there are at least four
24	has there been any noise study made of the	24	power plants, to my knowledge, that establish
25	noise generated by the plant versus noise	25	an NPDS discharge plant on their own
	noise generated by the plant versus noise		an 147 BB discharge plant on their own
	Page 284		
	1490 201		Page 286
1		1	
1 2	generated by the airport, and especially,	1 2	property. You know, it gets rid of the oils
2	generated by the airport, and especially, flights overhead?	2	property. You know, it gets rid of the oils and stuff like that. But they also found
2 3	generated by the airport, and especially, flights overhead? And if it's a simple yes you	2 3	property. You know, it gets rid of the oils and stuff like that. But they also found that where the the products of corrosion
2 3 4	generated by the airport, and especially, flights overhead? And if it's a simple yes you have, late-file it. If you haven't, is there	2 3 4	property. You know, it gets rid of the oils and stuff like that. But they also found that where the the products of corrosion coming out of a plant that were would be
2 3 4 5	generated by the airport, and especially, flights overhead? And if it's a simple yes you have, late-file it. If you haven't, is there any way it can be done reasonably?	2 3 4 5	property. You know, it gets rid of the oils and stuff like that. But they also found that where the the products of corrosion coming out of a plant that were would be removable by these little sewage treatment
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45 (Pages 283 to 286)

Page 287 Page 289 1 1 it compare with the cost of having a little denominator, the individual homeowner, what 2 2 surplus in the capacity? this means, and I think it would be helpful. 3 3 THE WITNESS (Bazinet): So That's the comment, as you do these 4 just to clarify, the -- you're generating 4 late-files. 5 capacity as a region or --5 I have two comments on C310. 6 б MR. ASHTON: If you have to Again, when you're colleagues go through and 7 curtail load because of a shortage in 7 start asking questions, you have more 8 8 questions. And on C310, two things came up, capacity, what's the societal impact of that 9 9 and I'm bringing this up because possibly versus having -- society having to carry a 10 10 this is something that Dean should address. long picture where you have excess 11 generation? 11 You'll have to address this through a 12 THE WITNESS (Powers): Well, 12 late-file also. 13 I -- speaking from a market perspective, I 13 But as I understand it, 14 think, as we've seen in past capacity 14 correct me if I'm wrong, this facility sits 15 auctions, when you're a little bit long, it 15 at the crest of a hill. Is that correct? 16 provides incremental reliability benefits and 16 THE WITNESS (Bazinet): The --17 17 your prices are, you know, reasonably low. it's -- it sits -- the --18 When you go short, even just a 18 THE WITNESS (Jones): So I more accurately describe it as in a saddle 19 little bit, and in the last auction we went 19 20 short a lot, but with the structure of the 20 where to the north and south it rises up 21 market, even when you go short a little bit, 21 slightly, and to the east and west it drops 22 prices rise to the cost of new entry. So 22 off slightly. 23 you're paying significantly more money when 23 DR. KLEMENS: Well, to the 24 you're a little bit short than when you're a 24 east and west. Can we say that water is 25 25 flowing off the site in many different little bit long. Page 290 Page 288 1 MR. ASHTON: Thank you. Those 1 directions now and feeding many different 2 are my questions. 2 wetlands? 3 THE CHAIRMAN: Thank you. 3 THE WITNESS (Jones): The 4 Dr. Klemens. 4 water is flowing off the site in many 5 DR. KLEMENS: I have a general 5 different directions. That's shown on our --6 observation. As you're going to be producing 6 on the drainage area map. 7 these late-files, there's been a lot of 7 DR. KLEMENS: Okay. So what 8 discussion at the large scale. Last time, 8 I'm seeing here now on -- on your stormwater 9 9 there was the discussion about what the cost management plan, is that you are capturing 10 and the savings would be. 10 all the water on the site and discharging it 11 Would it be possible to take 11 to a single discharge point. Is that 12 some of these concepts and distill it into 12 correct? the most basic level, the single ratepayer, 13 13 THE WITNESS (Jones): That's and what it means to them? It would 14 14 not correct. 15 certainly, I think, be helpful to me to 15 DR. KLEMENS: Could you tell 16 16 understand, and I think to many of the me where the --17 citizens that have asked questions, what does 17 THE WITNESS (Jones): So there 18 it mean to them? 18 are several discharge points. 19 19 Likewise, with the issue of DR. KLEMENS: Oh, I don't see 20 the particulate pollution, the Chairman 20 them. I see the two detention ponds all 21 wanted to see maps of where it was going. 21 being taken to one point into that swale that 22 And I think it really is to respond to the 22 Mr. Hannon was so concerned about. 23 huge volume of citizen concern that we've 23 THE WITNESS (Jones): So we'd 24 received. Is there any way you can think 24 like to submit as a Late-Filed exhibit our 25 about the lowest -- the lowest common 25 drainage area map showing pre and

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	Page 291		Page 293
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1	postdevelopment drainage areas and the	1	THE WITNESS (Bazinet): Yes,
2	discharges from each of those areas pre and	2	they do.
3	postdevelopment. I think it would directly	3	MR. LEVESQUE: And all the
4	address your question.	4 5	studies you have, or reports about how
5 6	DR. KLEMENS: Well, my	6	your your contract would work and and the study of the supply of the water that
7	question is maintaining the preexisting hydrology and not capturing all the hydrology	7	you that you want to buy from them, have
8	from the site and putting it in one wetland.	8	you submitted that in this app?
9	THE WITNESS (Jones): That's	9	THE WITNESS (Bazinet): So
10	correct.	10	there was a response to interrogatory that
11	DR. KLEMENS: I'm	11	described how we would meet our water demands
12	particularly, again, concerned about the	12	during oil-fired operation. The balance of
13	contribution of Wetland 1, which I believe	13	the year, during gas-fired operation, there
14	you're proposing to fill?	14	is no there is no, you know, need to
15	THE WITNESS (Jones): That is	15	balance continuous hours of oil-fired
16	being proposed to fill.	16	operation with water supply.
17	DR. KLEMENS: Well, there's	17	MR. LEVESQUE: Okay. And then
18	water coming out of that which feeds directly	18	your water needs for nonpotable are supplied
19	into Wetlands Number 2 and 3. So how are you	19	from that treatment plant?
20	going to maintain the hydrological balance in	20	THE WITNESS (Bazinet): All of
21	those wetlands post development?	21	the facility's water requirements are
22	THE WITNESS (Jones): We would	22	supplied by Heritage Village.
23	like Mr. Gustafson to to answer that for	23	MR. LEVESQUE: After the
24	you.	24	filtration plant?
25	DR. KLEMENS: That will be	25	THE WITNESS (Bazinet):
	Daga 202		Dago 201
	Page 292		Page 294
1	answered by Mr. Gustafson or answered by the	1	It's there it's all potable water, so
2	answered by Mr. Gustafson or answered by the late file, or both?	2	It's there it's all potable water, so yes.
2	answered by Mr. Gustafson or answered by the late file, or both? MR. SMALL: Probably	2 3	It's there it's all potable water, so yes. MR. LEVESQUE: Is there a
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Page 295 Page 297 1 1 different context, but the -- the end -- the So, in other words, our impacts on the plant 2 2 end result was the same, in that the of that size are probably not --3 3 feasible -- while technically feasible, the MR. LEVESQUE: It would take, 4 routing plan to get from Point A to Point B 4 like, a quarter of their -- your maximum use 5 was just not -- just not something that we --5 might be a quarter of what they put out? 6 6 we deemed was a viable option. THE WITNESS (Bazinet): 7 7 MR. LEVESQUE: Is the Correct. 8 8 Naugatuck one closer? MR. LEVESQUE: Okay. Thank 9 THE WITNESS (Bazinet): 9 you very much. 10 10 Actually, Waterbury had --THE CHAIRMAN: Okay. 11 there -- there are more direct routes to 11 The Town of Middlebury, thank 12 Waterbury using the existing right of way --12 you for your patience. And I don't know 13 rights of way. But, yeah, it's not something 13 which of you two gentlemen would like to 14 that I think would be looked upon favorably. 14 start, but --15 MR. LEVESQUE: How about 15 MR. SAVARESE: Mr. Chairman, 16 prefiltration plant water from Heritage? 16 my name is Attorney Stephen Savarese. I'm a 17 17 THE WITNESS (Donovan): I licensed attorney and representing the Town 18 mean, one thing that -- that Mr. -- in -- in 18 of Middlebury. 19 response to Mr. Ashton, I think, is -- we 19 MR. LYNCH: Mr. Savarese, keep 20 should have highlighted further was we are 20 your voice up. 21 incorporating a number of recycling methods 21 MR. SAVARESE: Yes. I'm going 22 inside the plant, innovative things to -- to 22 to defer to my senior colleague who has been 23 reduce the water consumption and the water 23 part of the process through the entire 24 discharge to an absolute minimum, far lower 24 proceedings that were held in 2006 and 2007. 25 than comparable projects. 25 And then, we are hopeful that Page 296 Page 298 1 MR. LEVESQUE: Okay. 1 we're going to get a further opportunity to 2 But did you check about 2 address the Council and all the after-filed 3 getting water from the Heritage effluent 3 materials because we are the first of the 4 plant, or is it a matter of cost? 4 party intervenors to come forward, but the 5 THE WITNESS (Bazinet): Yeah, 5 evidence is still coming in that we're having 6 I'm not certain what that -- no, we didn't 6 to evaluate and critique. 7 examine that plant specifically. 7 So just on a fairness basis, 8 MR. LEVESQUE: Because they --8 we would hope that, at some point, we would 9 9 be entitled to go again to address what is they have a sewage district, too. 10 THE WITNESS (Bazinet): Yeah, 10 still being filed by the applicant. 11 11 THE CHAIRMAN: Somebody has to my understand is that's --12 MR. LEVESQUE: They're one of 12 go first, and the Council was probably at an the only two regulated public utility sewage 13 13 equal disadvantage, and there will be another opportunity. We just want to ask you, and 14 districts. That's what I'm aware of. 14 15 15 we'll ask everybody, including ourselves, THE WITNESS (Bazinet): Yeah. 16 16 that when we respond to late filings, we keep My understanding is that the capacity of that 17 17 our questions concise and don't repeat, but plant is extremely small. 18 18 that's not an issue at the moment. THE WITNESS (Jones): About 19 19 800,000. MR. SAVARESE: Understood. 20 THE WITNESS (Bazinet): Yeah. 20 And again, we developed our questions without 21 About 800,000 gallons a day relative to 21 the knowledge of what preceded this morning. 22 Naugatuck to Waterbury. I think Naugatuck 22 So again, we apologize if we're going to be 23 23 repeating, in even an nuanced manner, some of has a designed capacity of about 10 million gallons per day. And Waterbury 24 24 the questions that were diligently put 25 is, I believe, 37 million gallons per day. 25 forward by the Council and answered by the

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	Page 299		Page 301
1	applicants.	1	standards of the state and local level. We
2	We also note that the	2	also, in addition, for comparative
3	transcript from the prior proceedings had not	3	information, provide information about the
4	yet been filed, so we did not have further	4	ambient background and do a comparison so
5	opportunity to to cross-reference that	5	that those who live in the area can
6	we're not repeating the question that was	6	understand the degree to which the sound
7	answered asked and answered back on	7	levels will or will not change.
8	January 15th. But without further ado,	8	MR. PIETRORAZIO: Okay. I
9	Mr. Ray Pietrorazio.	9	guess that partly answers my question. But
10	CROSS-EXAMINATION	10	the the validation to my question comes
11	MR. PIETRORAZIO: Thank you	11	from the EPA standards that mandates that all
12	Stephen. Good afternoon. Thank you for this	12	noise issues that all noises that are
13	opportunity to speak to the Council and to	13	are in the area of the receptors to be
14	cross the applicant.	14	combined to arrive at the final decibel
15	My name is Raymond	15	rating. Is that correct?
16	Pietrorazio. I reside in Middlebury,	16	THE WITNESS (Gresock): Can
17	Connecticut. I'm approaching 76 years of	17	you give me a citation on that standard?
18	age, and I've never been in this type of	18	MR. PIETRORAZIO: Well, I'm
19	forum before. I'm sure both panels here have	19	I'm mainly concerned with the the
20	been, but this is my first time, so I beg	20	combination of noise from both the airport
21	your indulgence.	21	and the plant.
22	I will start by saying that	22	MR. SMALL: If you can tell
23	I've tried to maintain a pretty narrow focus	23	that if you can provide us with a
24	on this whole issue since my involvement in	24	reference to the regulation you're asking us
25	the year 2000, and mainly, that is with	25	about, we can we can respond.
	Page 300		Page 302
1		1	
1 2	Page 300 relation to the plant stack discharges and the effects it would have on the aviation at	1 2	MR. PIETRORAZIO: I'd be happy
	relation to the plant stack discharges and the effects it would have on the aviation at		MR. PIETRORAZIO: I'd be happy to I'd be happy to. As I say, this came
2	relation to the plant stack discharges and	2	MR. PIETRORAZIO: I'd be happy to I'd be happy to. As I say, this came up just as Chairman Councilman Ashton
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2 3 4	relation to the plant stack discharges and the effects it would have on the aviation at the Waterbury-Oxford Airport. And you know the history there, so I want take any longer.	2 3 4	MR. PIETRORAZIO: I'd be happy to I'd be happy to. As I say, this came up just as Chairman Councilman Ashton brought up the subject.
2 3 4 5	relation to the plant stack discharges and the effects it would have on the aviation at the Waterbury-Oxford Airport. And you know the history there, so I want take any longer. There were a few comments made	2 3 4 5	MR. PIETRORAZIO: I'd be happy to I'd be happy to. As I say, this came up just as Chairman Councilman Ashton brought up the subject. With regard to
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Page 303 Page 305 1 1 sound levels and the change in ambient sound be well below permissible levels? 2 2 THE WITNESS (Seller): Yes, levels obviously has all sources included. 3 So the project contribution would be 3 the primary purpose of the stack is -- is 4 reflected in the comparative information that 4 precisely that, is that to safely emit the 5 would show what the change in sound level 5 products of combustion and -- which -- which 6 6 are, you know, common products of combustion would be. 7 7 are found in any combustion process, to The project, however, sound by 8 8 itself is what is regulated by the state and levels that comply with ambient air quality 9 9 the local standards. So I think there -standards. 10 10 there are just two -- two different types of MR. PIETRORAZIO: Thank you. 11 11 analysis and consideration should be given. Do you agree that the stack 12 MR. PIETRORAZIO: Sure. The 12 designed for such a project as this is a very 13 reason why I bring it up is I'm sure the 13 complex undertaking that involves many 14 Council would be very interested in knowing 14 factors and considerations? 15 15 what the final decibel rating is. Thank you. THE WITNESS (Seller): Yes. 16 16 With regard to excess The height of the stack takes into account 17 17 the height of the buildings, nearby terrain, generation, isn't it true that the loads and 18 forecast that the Siting Council has produced 18 and the nature and properties of the exhaust 19 for many years now, at least decades that I 19 gas itself. 20 know of, has repeatedly stated that the 20 MR. PIETRORAZIO: Thank you. 21 excess generation in Connecticut -- maybe 21 Can ground concentrations of 22 this question is better directed to the 22 pollutants be reduced by the use of higher 23 Council -- but the excess generation in 23 stacks? 24 Connecticut has been on the order of 18 to 24 THE WITNESS (Seller): In some 25 25 20 percent, isn't that correct, by the loads instances, yes. Page 304 Page 306 1 and forecast in the recent, say, two decades? 1 MR. PIETRORAZIO: Would you 2 THE CHAIRMAN: Well, this is 2 say in most instances? 3 really your opportunity to cross-examine the 3 THE WITNESS (Seller): 4 applicant. Obviously, if we have a ready 4 In many instances, but not --5 answer to clarify, we'd be glad to. 5 not -- certainly not in all instances. б I don't have the percentage, б MR. PIETRORAZIO: Thank you. 7 you know, 18 or 20 percent. I know that, 7 Would two 150 -- I'm sorry --8 fairly consistently, even with the -- with 8 160-foot tall stacks at the CPV Towantic be 9 9 the plant retirements and planned more effective in the dispersion of 10 retirements, our particular study has, in the 10 contaminants than the current 150-foot high 11 past, shown that there is sufficient supply. 11 stacks? 12 12 THE WITNESS (Seller): There Beyond that, as I said, 13 13 we're -- this is really your unique may be a marginal difference in -- in the 14 14 opportunity to ask questions of the ultimate concentrations, but the result in 15 applicant. 15 concentrations from the emissions of 150 feet 16 16 MR. PIETRORAZIO: Thank you, are well below all of the applicable 17 17 Chairman Stein. air-quality standards. And so such an 18 18 additional stack height would be unnecessary. The first question on my list 19 19 here that I prepared: Isn't one of the MR. PIETRORAZIO: I'll be 20 principal purposes of the stack to convey the 20 providing a document to the Council that --21 products of combustion containing toxic gases 21 that states that the -- a 20-foot change in 22 and/or particulate material to a point high 22 height in the stacks will produce more than 23 double the deposition. And I just -- the 23 enough above the ground level so that, after 24 normal dispersion above the stack, the ground 24 import is on the height of the stacks. 25 25 level concentration of any contaminants will For the record, do you know

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	Page 307		Page 309
1	the height of the stacks of the most recent	1	velocity were to increase, would it have a
2	dual-fueled combined cycle electric	2	direct effect's on the ground level
3	generating facility to become operational in	3	pollution?
4	Connecticut?	4	THE WITNESS (Seller): If the
5	MR. SMALL: Which facility	5	exit velocity alone were to increase, but the
6	would that be, Mr. Pietrorazio?	6	mass flow rate and the temperature were the
7	MR. PIETRORAZIO: Well, I'm	7	same, it would have a marginal, at best,
8	asking you if you know what the most recent	8	improvement.
9	one is.	9	MR. PIETRORAZIO: But it would
10	Well, let's take if you	10	improve?
11	don't, let's take Middletown, the Kleen	11	THE WITNESS (Seller):
12	Energy plant.	12	Slightly.
13	THE WITNESS (Seller): I don't	13	MR. PIETRORAZIO: Thank you.
14	know what the height of that stack is, no.	14	What is the relationship of
15	MR. PIETRORAZIO: The	15	stack gas exit velocity and the turbulent
16	Killington plant?	16	wake of the stack itself?
17	MR. ASHTON: No, Killingly.	17	THE WITNESS (Gresock): I'm
18	MR. PIETRORAZIO: I'm sorry,	18	not sure I completely understand the
19	Killingly.	19	question.
20	MR. ASHTON: The Killingly	20	MR. PIETRORAZIO: Well, maybe
21	Plant, Lakeville, Lake Road.	21	if I used a different term for the turbulent
22	MR. PIETRORAZIO: Lake Road.	22	wake. I'm talking about what we refer to in
23	THE WITNESS (Bazinet): Don't	23	the industry as cap stack tip downwash; in
24	know what the stack height is there, either.	24	other words, the downwash of the pollutants
25	MR. PIETRORAZIO: Thank you.	25	of the plume itself caused by the erratic
	Page 308		Page 310
			Page 310 II
1		1	
1	From the findings of Fact	1 2	airflow around the top of the chimney, the
2	From the findings of Fact Number 33 for Docket 255, available from the	2	airflow around the top of the chimney, the best I can describe it.
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Page 311 Page 313 1 1 There is a critical wind because the atmosphere is comprised of about 2 2 velocity, quote/unquote, for every stack exit 80 percent nitrogen, so in the combustion 3 3 velocity. Can you please explain what is process there would be some conversion from 4 meant by the term "critical wind velocity"? 4 atmospheric nitrogen to various oxides of 5 THE WITNESS (Seller): I -- I 5 nitrogen. 6 have no idea. 6 If there are sulfur impurities 7 7 in any fuel, those would oxidize into sulfur MR. PIETRORAZIO: Thank you. 8 8 dioxide. Any particulates in the inlet air, And what is meant by the term 9 "terrain downwash"? 9 like pollen or dust, plus any partially 10 10 THE WITNESS (Seller): If burned hydrocarbons, could form particulate 11 there is terrain very close to the facility 11 matter. And any unburned fuel that would go 12 itself that is taller than the stack and 12 through go the system would comprise of all 13 within very close proximity to the stack, air 13 of the organic compounds or hydrocarbons. 14 14 There would be trace emissions flowing across the terrain can influence the 15 downwash of the stack, the same as -- of 15 of various other -- other chemicals on the 16 having a very tall building immediately 16 basis of what would be in either the air that 17 17 adjacent to the stack. went into the combustion or in the fuel 18 MR. PIETRORAZIO: Very good. 18 19 19 MR. PIETRORAZIO: Thank you. Thank you. 20 20 I'm sorry. Did -- did you And what is meant by the term 21 "building downwash"? 21 mention, in the beginning of your response, 2.2 THE WITNESS (Seller): The 22 carbon monoxide? 23 23 THE WITNESS (Seller): same effect, the air flowing across the 24 building can cause the -- the escaping plume 24 That's -- no, I'm sorry. I 25 to -- to move in a downward direction before 25 omitted carbon monoxide. So any incomplete Page 314 Page 312 1 it resumes upward. 1 combustion of the fuel would result not only 2 MR. PIETRORAZIO: And -- and 2 in hydrocarbons but also partially combusted 3 adversely affect normal dispersion? 3 carbon or carbon monoxide. 4 THE WITNESS (Seller): 4 MR. PIETRORAZIO: Thank you. 5 Building induced downwash is 5 And what are the average 6 taken into account in all of the atmospheric 6 minimum and maximum percentages of full 7 modeling, yes, because it can have an 7 rating that the plant would operate at; in 8 influence on where and -- and the location 8 other words, the plant is capable of 9 and magnitude of the point of maximum impact. 9 operating at a minimum and maximum capacity, 10 MR. PIETRORAZIO: Thank you. 10 and I'd like to know what you would 11 Besides water vapor and carbon 11 contribute as being the minimum and maximum 12 12 dioxide being the main products of combustion averages. 13 of natural gas, what other gases will be 13 THE WITNESS (Bazinet): So the emitted from the stacks of this plant? 14 14 five data points, I believe, you're asking 15 THE WITNESS (Seller): Okay. 15 for, an average load, a minimum load, a 16 In any combustion process of -- of any fuel, 16 maximum load, and the minimum and maximum of 17 so whether it's in a power plant or in your the average. 17 18 car or in your home, the primary products of 18 MR. PIETRORAZIO: That's 19 combustion --19 correct, yes. 20 MR. PIETRORAZIO: Carbon based 20 THE WITNESS (Bazinet): So the 21 fuels? 21 maximum load is 100 percent of the planned 22 THE WITNESS (Seller): Any 22 output. The minimum load is -- can be found 23 carbon based fuel, the products of combustion 23 on Table 2 -- 23 of the exhibit. It's 1 on 24 would be carbon dioxide, water, and then, 24 page 8, and that's 30 -- 30 percent. 25 nitrogen dioxide, which is formed primarily 25 MR. PIETRORAZIO: What was

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Page 315 Page 317 1 going to -- if we're going to build an 800 that number? 1 2 2 THE WITNESS (Bazinet): Thirty megawatt plant, the conjecture must be that 3 3 percent. your -- your average maximum load is going to 4 The average load is going to 4 be on the higher end of that 800 megawatts. 5 depend entirely on the dispatch request from 5 Is that correct? 6 ISO New England, demand at any given point in 6 THE WITNESS (Bazinet): So 7 time, ambient temperature, a number of 7 what I -- what I can direct you to is Figure 8 different factors. And it's kind of 8 23 of Exhibit 2 of our filing. It's on 9 impossible, at this point, to say what the --9 page 44. That provides, over the first ten 10 10 well, the min -- the min and max of that -years of operation, the expected capacity 11 that average would be because we don't 11 factor of the plant, that is, the total 12 actually know what that average would be at 12 possible megawatt hours generated as -- as 13 this point. 13 the denominator, assuming 8,760 hours of 14 14 operation, and the numerator being the MR. PIETRORAZIO: Okay. 15 So you don't have -- it's the 15 projected generation over that same time period. 16 same answer for the maximum average? 16 17 17 THE WITNESS (Bazinet): The --Figure 23, on page 44, I think 18 the average dispatched load of the plant is 18 it is. 19 going to be dependent on so many different 19 MR. PIETRORAZIO: Yes, we got 20 variables in the future, that we can project, 20 it. Thank you. 21 and we can project an expected capacity 21 So correct me if I'm wrong. 22 factor at full load, but the -- the requests 22 You're mostly in the lower 70s range, 23 made by ISO New England, at any given point 23 70 percent, 72, 71? 24 in time, could vary for a number of different 24 THE WITNESS (Bazinet): That's 25 reasons such that it would be impossible for 25 correct. So on an average annual basis, the Page 316 Page 318 1 us to say today what the average expected 1 expected capacity factor is in that range. 2 operating mode of the plant is in any given 2 Correct. 3 year. 3 MR. PIETRORAZIO: Thank you. 4 MR. PIETRORAZIO: So in -- in 4 And what would be the exit 5 trying to determine the -- the size of the 5 velocities of stack gases at that average 6 plant that you're going to build, you 6 rate, say, 72 percent? Do you have that? I 7 would -- you would have some conception of 7 believe I saw in the submittal the -- the one 8 what the demands are going to be so that --8 figure for exit stack velocity, but I didn't 9 9 well, let me rephrase here. Let me back up see it for the range. 10 just a little bit. 10 THE WITNESS (Bazinet): I just 11 11 want to correct a statement. That -- that The -- the plant overall 12 12 efficiency, in other words, from fuel to does not assume that the plant will be 13 13 megawatt, the -- is dependent somewhat, and operated at an average rating of 70 percent. 14 It's simply the megawatt hours expected to be 14 largely, I think, the efficiency of the plant 15 15 generated divided by the total potential would be on the percentage of rating. 16 16 megawatt hours that could be generated. That Correct? 17 17 could happen at a variety of different There is a point at which the 18 18 operating points over the -- over the span of plant is most efficient in its operation. Is 19 19 that correct? a year. 20 THE WITNESS (Bazinet): Yes. 20 MR. PIETRORAZIO: I 21 MR. PIETRORAZIO: And it's 21 understand. I was seeking information. I 22 22 didn't get it, but I was seeking to find the usually at the higher end? 23 23 THE WITNESS (Bazinet): That's average that you expected the plant be 24 24 operated at, and you couldn't answer it, so correct. 25 25 that's fine. MR. PIETRORAZIO: So if we're

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	Page 319		Page 321
1	So do we have the exit	1	the difference in exit velocities affect the
2	velocity at 72 percent of rating?	2	stack gas dispersion?
3	(Pause.)	3	THE WITNESS (Seller): The
4	THE WITNESS (Gresock): We	4	stack gas dispersion, again, is primarily
5	we have some information on some load cases,	5	influenced by the mass flow rate which is
6	but we don't have information for 72 percent	6	indirectly related to the exit velocity, as
7	load. We use a typical operating case, which	7	well as the temperature. So when the exit
8	we call "the ISO condition," which is the	8	velocity is lower, it typically means there's
9	plant operating at a hundred percent load	9	less mass flow rates, so less less total
10	in including yeah and the unfired	10	air coming out of the stack and at a lower
11	case, which is which is a higher or	11	temperature.
12	which is the the higher velocity is	12	Under those conditions, there
13	56.2 feet per second velocity for the for	13	would be higher ambient concentrations
14	that hundred percent load case.	14	predicted than, say, when there was a higher
15	MR. PIETRORAZIO: Thank you	15	flow rate and a higher temperature. Now,
16	very much.	16	that's juxtaposed against a higher emission
17	And what material would the	17 18	rate at the higher temperature, so there's
18 19	internal liner of the stacks be constructed of?	18	really competing variables that that go in. So for some of the cases, the maximum
20		20	
20	THE WITNESS (Donovan): The stacks are going to be carbon steel, and	21	impact may be at 50 percent load, and for other pollutants the maximum impact may be at
22	there may be a stainless liner for the	22	a hundred percent load.
23	first for the first section. I don't know	23	MR. PIETRORAZIO: I see.
24	how tall that would be.	24	THE WITNESS (Seller): But in
25	MR. PIETRORAZIO: For the	25	our air modeling to support our air permit
23	MR. HETRORAZIO. Tor the		our an moderning to support our air permit
	Page 320		Page 322
1		1	
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	Page 323		Page 325
1	stack temperature will be lower at, say, 30	1	MR. PIETRORAZIO: Around 45
2	percent of input?	2	degrees Fahrenheit?
3	THE WITNESS (Donovan): Yes,	3	THE WITNESS (Seller): Subject
4	but not not significantly lower. It's	4	to check, I'll take your word for that.
5	probably about 10 degrees lower.	5	MR. PIETRORAZIO: Thank you.
6	MR. PIETRORAZIO: Thank you.	6	Are stack gases from the
7	Do temperature inversions take	7	combustion of natural gas usually opaque
8	place at the site in Oxford, Connecticut?	8	below 45 degrees Fahrenheit ambient, and also
9	THE WITNESS (Seller): Yes,	9	on humid summer days, very humid summer days,
10	temperature inversions take place everywhere.	10	above that temperature; that is, it forms a
11	MR. PIETRORAZIO: Thank you.	11	visible plume or white cloud that one cannot
12	If the stack is located where	12	see through?
13	temperature inversions take place, should the	13	THE WITNESS (Seller): A
14	stack be designed so it extends through the	14	visible plume would be the condensing water
15	inversion layer?	15	vapor plume which you talked to, and those
16	THE WITNESS (Seller): That's	16	would be associated with lower temperatures
17	typically not practical nor necessary as the	17	and higher humidity.
18	inversion may may be at a very high	18	MR. PIETRORAZIO: And those
19	altitude, or it may be at a lower altitude.	19	are opaque?
20	Most of the inversions, when you have gently	20	THE WITNESS (Seller): Those
21	rolling terrain like in the Oxford area,	21	would be opaque.
22	would be rather weak thermal inversions.	22	MR. PIETRORAZIO: Thank you.
23	When you have a very, very	23	How much water vapor is
24	warm plume, it would it would be able to	24	produced for each mole of natural gas burned,
25	penetrate the inversion pretty readily.	25	in equivalent moles?
			•
	Page 324		Page 326
1		1	
1 2	Page 324 That's why in the modeling for the air permit application we use five years of hourly	1 2	Page 326 THE WITNESS (Seller): I would have to calculate that.
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	Page 327		Page 329
1	cloud?	1	understand that. Thank you.
2	THE WITNESS (Seller): It	2	All this discussion, I'm
3	certainly would not be a cirrus cloud.	3	sorry, has been with regard to the plumes
4	MR. PIETRORAZIO: Okay. Thank	4	exiting the stacks, at least that was my
5	you.	5	intention.
6	THE WITNESS (Seller): It	6	During the winter when the
7	would be puffy, but have none of the other	7	temperature is below 32 degrees Fahrenheit,
8	characteristics of cumulus.	8	will the water vapor condense to liquid and
9	MR. PIETRORAZIO: Thank you.	9	freeze?
10	Will the water vapor clouds	10	THE WITNESS (Seller):
11	cause shadows to be cast in otherwise clear	11	Certainly not you wouldn't find any ground
12	weather?	12	level freezing or ice that would be typically
13	THE WITNESS (Seller): Shadows	13	associated with, say, a wet-cooling tower.
14	from water plumes would be pretty finite and	14	As far as forming ice crystals in the
15	pretty limited spatially, and would depend on	15	atmosphere, it would behave the same as any
16	the sun angle and a number of other factors.	16	other water in the atmosphere. If there was
17	MR. PIETRORAZIO: The physical	17	a particle to absorb onto, it could do that.
18 19	size of the plume. Correct? THE WITNESS (Seller): Most	18 19	MR. PIETRORAZIO: Thank you.
20	and its juxtaposition to the sun, so if the	20	Therefore, will the freezing created by the condensation of water vapor
21	sun	21	cause slippery road conditions, icing of
22	MR. PIETRORAZIO: Absolutely.	22	tarmacs, aircraft and other services that the
23	THE WITNESS (Seller): was	23	condensation comes in contact with as
24	between the if the plume was between the	24	experienced with high water vapor stack
25	sun and the ground, it would do the same	25	plumes from paper mills?
			Francis cross fulfus comme.
	Page 328		Page 330
1	Page 328 thing that a cloud would do between the sun	1	Page 330 THE WITNESS (Seller): No.
1 2		1 2	
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2 3 4	thing that a cloud would do between the sun and the ground.	2 3 4	THE WITNESS (Seller): No. The the plume would be considerably too high to come into contact with the ground and cause icing. Those types of plumes are
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design this plant in the vicinity of the airport. THE WITNESS (Gresock): And as we've already stated, under cold conditions, the plume would be visible, and pilots certainly should have the opportunity to avoid flying through the plume for a variety of reasons. MR. PIETRORAZIO: Yes, but isn't it true that most good flying weather is when you cannot see the plume? It's above 45 degrees. THE WITNESS (Seller): And under those under those circumstances, it wouldn't be condensed water vapor, so the risk of any icing would be very, very negligible. MR. PIETRORAZIO: Well, okay. The icing of aircraft carburetors, if you've looked into this, takes place at temperatures, at normal temperatures well above freezing, well above 40, 50 degrees because of the vacuum on the carburetor, it	THE WITNESS (Seller): Yes, and that would be released into an atmosphere over, say, Oxford that would weigh approximately a billion tons. So it's a small amount of water that's being introduced. MR. PIETRORAZIO: It is a small amount of water that is placed directly in the path of the aircraft. Isn't that correct? THE WITNESS (Seller): No, I would not agree with that. MR. PIETRORAZIO: Thank you. I think that's all I have for this afternoon, but I certainly want to reserve my I don't know if it's right or not, but I had certainly planned to have many more questions, and I beseech the Council to allow me to continue at a later date with regard to cross-examination. Thank you. MR. SAVARESE: Mr. Chairman, I have questions.
causes the freezing. So THE WITNESS (Seller): It's	24 THE CHAIRMAN: Oh, okay. 25 CROSS-EXAMINATION
also my understanding that that would occur quite a residence time. You'd have to be flying in the plume for a fair amount of time, not passing though a plume. You'd have to be hovering over a plume or flying in a plume or flying in a cloud for that matter, for a considerable period of time. MR. PIETRORAZIO: And and couldn't that be very dependent on the type of plume, whether it was a fumigation plume or whether it was a conical plume, what the wind direction and speed was, as to the physical size of the plume which could be stretched out for literally miles? THE WITNESS (Seller): Yeah. The plume is going to dissipate pretty fast when it leaves the stack, and so you're not going to have a high condensation of, you know, a high concentration of water from that plume that would cause that, that effect. MR. PIETRORAZIO: Isn't the water vapor to be produced by the combustion of natural gas for this size plant on the	MR. SAVARESE: And my questions are directed mostly at Exhibit 2, but my first question is based on the petition dated November 3, 2014, to reopen and modify. Is the applicant abandoning the proposal to construct, operate and maintain the 512 megawatt dual-fuel combined-cycle electric energy plant in Oxford? THE WITNESS (Bazinet): No. MR. SAVARESE: Is the applicant prepared to commence construction of the 512 megawatt facility based on the reopening of Docket 192 in 2006, resulting in a decision issued in 2007? Are you prepared to build the plant that you're not abandoning if, in fact, this 805 is denied? THE WITNESS (Bazinet): At this point, at this current juncture, today, no. MR. SAVARESE: What would be
24 order of over a million gallons per day if 25 the plant were at full output?	required to revert to the 512 megawatt facility to get under construction?

57 (Pages 331 to 334)

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	Page 335		Page 337
1	THE WITNESS (Bazinet): There	1	from the FAA?
2	will be a few different items that would be	2	THE WITNESS (Gresock): Not
3	required. Certainly a lot of the work we've	3	currently.
4	done since proposing the expansion has gone	4	MR. SAVARESE: If denied on
5	toward revising certain approvals or	5	the 805, how much time do you think it would
6	modifying certain approvals that currently	6	require to thereby proceed with the 512
7	exist. So certainly a lot of that work would	7	megawatt approval process?
8	need to be undone.	8	THE WITNESS (Bazinet): It's a
9	But with respect to and we	9	great question. As I said, there are a
10	could we could put together a more	10	number of different things that are at play
11	comprehensive list, but there's a few	11	there including our own internal analysis and
12	different things that would need to be done	12	evaluation of whether or not we would proceed
13	in order to commence construction of that	13	with that 512 megawatt plant. But there are
14	facility.	14	a few variables at play including the DEEP
15	MR. PIETRORAZIO: Can you say	15	review process that you just mentioned, an
16	whether you're	16	FAA permit. To project the exact amount of
17	MR. SMALL: Excuse me for one	17	time, I'd be guessing.
18	second, please.	18	MR. SAVARESE: Is it fair to
19	MR. SAVARESE: Would your	19	say that the electric-gas market conditions
20	current filing with the DEEP be satisfactory	20	were known to the Council at the time of it's
21	to allow for the air modeling, to allow you	21	decision on Docket 192 in 2007?
22	to maintain an air quality permit?	22	MR. SMALL: Which electric
23	THE WITNESS (Seller): The	23	market conditions were known, Mr. Savarese?
24	facility has a valid air quality permit right	24	MR. SAVARESE: All of them.
25	now for the 512 megawatt facility.	25	MR. SMALL: Could you just
	Page 336		Page 338
1		1	
1 2	MR. SAVARESE: That has no	1 2	clarify that question?
	MR. SAVARESE: That has no expiration date?		clarify that question? MR. SAVARESE: The knowledge
2	MR. SAVARESE: That has no	2	clarify that question? MR. SAVARESE: The knowledge of the Council, do you think it's fair to say
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present, and I don't think it's necessary to be reviewing from 1999 to present when this Council has reviewed this application most recently, going through the public hearing process, had issued a decision in 2007, and that should be the base point of what we're suggesting are changed circumstances.

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I'm trying to determine from what changes are we trying to go forward. Because the longer the period of time the more obnoxious it is to suggest that there aren't some changed circumstances.

MR. SMALL: I think that's, you know, Mr. Chairman, I think that's an issue for the Council. We approached it both ways in the sense that we had a 1999 approval, and that was the approval we requested -- we were requesting through this process be changed. We also pointed out the changes, which, in some ways, are even more radical ironically since 2007. So the record has both sets of changes. It's really up to the Council and its legal advisors as to which is a relevant date. But I just think -- I therefore, on that basis, I guess,

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The paragraph continues: "In the ISO New England draft 2014 regional system plan, ISO New England is projecting a regionwide capacity shortage of 424 megawatts in 2019, increasing to 1,155 megawatts in 2023. In addition, the ISO New England 2004 CELT report projects the region to fall below the target reserve margin by 2018. Towantic will provide critical generation to meet the region's reliability needs identified by ISO New England."

Isn't this entire report a type of Monday morning quarterbacking of the Council's prior findings and forecasts?

THE WITNESS (Powers): This report reflects what's known and knowable today. Today we have capacity shortage in New England that Towantic will help to alleviate. Back in '99 it was a completely different set of circumstances, so we are basing this report on what we know today, which is a capacity shortage.

MR. SAVARESE: Right. Well, the quote I just read specifically talks about '07's decision, 2005-2006 10-year

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I object to the question as being irrelevant.

THE CHAIRMAN: We'll take that under advisement. I'm not prepared. The Council is not being cross-examined.

MR. SAVARESE: I understand, Mr. Chairman.

With respect to Exhibit 2 of the petition prepared by Concentric Energy Advisers, CEA, and entitled, "The New England Wholesale Power Market Changes, 1999 to Present," it provides at the last paragraph on page 26, "All of the changes in the wholesale market since 1999, as described above, have increased the need for plants like Towantic."

In the Connecticut Siting Council findings of fact in Docket Number 192-A, dated January 4, 2007, the Siting Council noted that "The 2005 to 2006 10-year forecast of load and resources of Connecticut electric utilities showed that supplies were expected to meet demand under normal weather conditions in the near-term, although a more conservative load forecast showed a shortage of supply."

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forecasts that bring us to this era, 2005 to 2015, 2016, which is when we were supposed to have a 512 plant that would have otherwise addressed the shortfalls that have been cited or possibly addressed by the need.

What assurances are we going to have that we're ever going to see a plant going forward when, in fact, for 15 years there has been no action at the repeated extensions being granted by this Council?

THE WITNESS (Bazinet): The CPV Towantic is attempting to move the project forward based on the market signals that Ms. Powers just mentioned.

With respect to assurances, I don't think anybody could guarantee the project will move forward. It's dependent on a number of different circumstances that includes Siting Council approving -- approval of our petition, as well as an air permit application that's pending at DEEP, and other -- other forces that, while we will put our best foot forward, we certainly don't control entirely.

MR. SAVARESE: That's fair.

59 (Pages 339 to 342)

Page 343 Page 345 1 1 Isn't one of the premises of the CEA report THE WITNESS (Powers): There 2 2 that all the changes in the wholesale market are two pieces as -- as we talked about 3 3 since 1999, as described above, have before. There's an adequacy piece, which are 4 increased the need for plants like Towantic 4 correct. You can put a facility in a number 5 as the reference to "like Towantic" referred 5 of different places. Connecticut has ongoing 6 6 to only generating facilities larger than local reliability concerns that help will --7 7 this plant will help to address. 512 megawatts? 8 8 THE WITNESS (Powers): No. MR. SAVARESE: Is there any 9 I -- I think that the need for facilities 9 particular advantage to the wholesale market 10 10 like Towantic is based on a couple of things. for locating the next electric generating facility greater than 500 megawatts at 11 It's replacement of -- of, you know, capacity 11 12 that's already announced retirement, and 12 Towantic Hill in Oxford, Connecticut? 13 integration of renewables into the market 13 THE WITNESS (Powers): There 14 14 where you need flexible resources, and is a benefit to Connecticut in general. 15 reliable resources, which is the dual-fuel 15 Connecticut is not an isolated -- it's not an 16 component of Towantic. So it's not a 16 island. Connecticut made a decision many 17 17 statement based on any size. It's a years ago to join ISO New England, so to the 18 statement based on the type of facility. 18 extent that there's a shortage of other parts 19 MR. SAVARESE: Okay. And does 19 of the system and Connecticut helps to solve 20 it matter where in the region it's going to 20 that shortage, prices will decrease. 21 add this capacity? 21 MR. SAVARESE: So these -- is 22 THE WITNESS (Powers): It --22 on the Algonquin Pipeline. Kleen Energy is 23 it does based on how the market clears and 23 on the Algonquin Pipeline. Doesn't this rob 24 how the market is structured, but it is safe 24 from the capacity of Kleen Energy to continue 25 to say that based on the shortage of capacity 25 to satisfy ISO New England's demands? Page 344 Page 346 1 in New England, Connecticut CEMA, NEMA, those 1 THE WITNESS (Bazinet): No. 2 are all areas that are import constrained 2 MR. SAVARESE: And why not? 3 where any addition of generation will help 3 THE WITNESS (Bazinet): The 4 alleviate reliability concerns. 4 pipeline of the Algonquin system capacity is 5 MR. SAVARESE: But isn't 5 available to a number of different generating 6 mostly what it's directed at is that there's б units, including Kleen and including Towantic 7 a need for baseload facility in the system? 7 should it be built. 8 THE WITNESS (Powers): There 8 MR. SAVARESE: My 9 is a need for all kinds of facilities on the 9 understanding is there are times of year that 10 system. We are in a -- in a capacity 10 there's not enough energy to keep the plants 11 shortage which means we need -- megawatts can 11 operating on gas, therefore, you would think 12 12 that there's competition for the gas. Does come from a number of different sources. 13 13 They could come from demand response. They that only happen one time a year? January 6, 2014, was that the only time in that '13-'14 14 can come from renewables. They can come from 14 15 resources like Towantic that are flexible. 15 winter? THE WITNESS (Bazinet): You're 16 We need a lot of different solutions to the 16 17 not far off by saying that it only happens 17 problem. Towantic is one solution. 18 one time a year. The expansion projects that 18 MR. SAVARESE: So trying to 19 19 understand the premises of Exhibit 2 of the are proposed are, you know, major capital 20 petition. My reading of it was that the 20 investments that are intended to solve a 21 problem that happens very infrequently. 21 electric generating facility of more than 512 22 Certainly, you know, less than say, maybe two 22 megawatts located anywhere in Connecticut, 23 or three weeks out of the year and not 23 Rhode Island, Massachusetts, Vermont, 24 contiguous. It's dependent on a number of 24 New Hampshire or Maine satisfies the ISO New 25 different factors and that can change on a 25 England region. Is that correct?

60 (Pages 343 to 346)

Page 347 Page 349 1 1 short-term basis. MR. SAVARESE: Okay. A 2 2 For instance, the cold period follow-up on that. Shouldn't the model have 3 3 that was experienced, I believe it was two been presented based on certain variations 4 weeks ago, the market has responded to that. 4 based on the most recent three-year 5 And LNG imports have been coming into New 5 operations reported by ISO? 6 6 England on the other side of the pipe THE WITNESS (Bodell): Over 7 7 providing gas to the system to allow all the last three years there have been 8 8 gas-fired generators to run despite the significant changes to the marketplace. To 9 9 extremely cold temperatures. rely on information from three years ago 10 10 So unlike 2014 where that would result in a stale analysis that would 11 might have been a scenario where gas supply 11 not be indicative of the need for this 12 was curtailed and Towantic would have been 12 facility sitting here today. 13 forced to run on fuel oil, that wouldn't be 13 MR. SAVARESE: Exhibit 2 of 14 14 the case in 2015 currently. the petition, the CEA report published in 15 MR. SAVARESE: On page 39 of 15 October 2014, Anticipate the recent downturn 16 Exhibit 2, the petition, CEA's report lists 16 in wholesale oil price that has fallen to 17 17 five assumptions as keys to determining the less than \$50 a barrel from an average of 18 multi-area production simulation model; 18 approximately \$100 a barrel for the past 19 namely, supply, existing generation, fuel 19 three years, and it's impact to the wholesale 20 costs, emission costs, forecast of demand, 20 market in January 2015? 21 and transmission constraints of delivery. 21 THE WITNESS (Bodell): The 22 22 For each of these factors assumption for oil prices was based on the 23 23 projections available at the time in October. presumptions were made to the conditions in 24 24 MR. SAVARESE: What would be 2018, three years in the future. What 25 25 the effect on the model of a sustained price assurance provides the Council and interested Page 348 Page 350 1 parties and intervenors that this docket 1 of oil under \$50 a barrel on the 2 underlying two different -- these key 2 profitability and likelihood of retirement of 3 assumptions are accurate? 3 the electric generating facilities operating 4 THE WITNESS (Bodell): The 4 on oil listed in Figure 18 on page 34 of the 5 basis for these assumptions relied on public 5 CEA report? 6 forecasts that had been made by New England 6 THE WITNESS (Bodell): There 7 ISO -- ISO New England that had been made by 7 were a lot of factors that would impact that, 8 NERC as part of it's reliability assessments. 8 and I cannot, sitting here today and having 9 9 And I think in almost every case we relied on not run an alternative oil price scenario, I 10 public forecasts -- where available. 10 can't tell you what the net effect would be, 11 With respect to the 11 but there are countervailing forces. 12 12 On the one hand, the lower oil transmission load flows, we took load flows 13 13 and updated them to account for new price will decrease peak price for energy, which have -- would have an adverse impact on 14 transmission that is projected to be built 14 15 15 and have that operational according to the a lot of plants that rely on the higher peak 16 16 prices for their revenues, yet the oil price time frames announced. 17 For plant additions we took 17 going down would result in a lower cost. 18 the announced additions that are in the queue 18 There may be a change in the 19 19 supply stack, although for the most part I at ISO New England. And for retirements, we 20 relied only on the retirements that had been 20 think oil plants are going to be more 21 announced as reported by ISO New England and 21 expensive than natural gas and coal plants 22 as reported in Ventyx, confirmed by us 22 and so it's just a matter of level. 23 23 through our own research. That led to around But these are the examples of 24 24 the countervailing forces. You'd have to 4,000 megawatts of retirement where there is

61 (Pages 347 to 350)

rerun the model with a new oil price if you

potentially 8,000 at risk.

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wanted to o get a conclusion about how lower oil prices would impact. And I also have to say the question is not what are oil prices today. What are oil prices going to be in 2018 to 2028?

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And the projections that are out there, different projections, although Saudi Aramco is following a long-term strategy, their own projections have indicated \$80 a barrel prices by the end of the year. Of course whether or not that happens is a difference, but I think we have to remember that we're talking about 2018 to 2028 and whether or not the oil prices are going to be at the levels they are today, and I think is unlikely.

MR. SAVARESE: But my premise here is that you're guessing that at five different parameters, and nowhere would any of us have anticipated that oil prices were going to drop to less than \$50 a barrel, which is one of the major components of the analysis, what the wholesale market is doing.

So how reliable is your prediction of where we're going to be in 2018 Page 353

1 lagging behind some of its brother states in 2 New England in the percentage on natural gas. 3

But here in Connecticut we have an adequate supply of power, and we now have a boondoggle of oil now priced at under \$50 a barrel. Why would we gamble our health on Towantic coming into the region?

THE WITNESS (Bodell): I don't agree with you that this is a gamble on health. In fact, I believe that any market that is relying on oil today, and coal, needs a gas plant more than ever to assure reliability and adequacy given the changes that have been occurring and are anticipated to occur in the post 2015-'16 period.

MR. SAVARESE: The current locations of the plant in Connecticut have been satisfactory for generations. There is no plant in Oxford. There is no plant on the Middlebury boundary. The location of five 150 megawatts plants distributed throughout New England, two in Connecticut, two in Massachusetts, one in Vermont, New Hampshire or Maine, would then satisfy 800 megawatts of demand that are being proposed

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much less going out to 2028?

THE WITNESS (Bodell): I don't accept your premise that these are based on guesses. When running these models you're looking for insights into what the impacts are going to be.

The oil price is one factor, but the oil is setting the price on a small number of hours, so it may not have a very large effect. Again, you want to look at that to see if that's the case, but I don't anticipate a huge impact.

As far as the other ones are concerned, it's important to look at the information that's available at the time you're running these analyses to come up with conclusions. If anything, I think that there are forces in play that could result in higher retirements, and therefore, higher benefits associated with the Towantic facility.

MR. SAVARESE: But again, we talked about generations of different fuel, and we currently are coming out of the oil era, if you will. And Connecticut has been

for Oxford. Is there any reason why?

For jobs alone, we shouldn't be placing five 150 megawatt plants throughout New England as opposed to centering them all on Towantic Hill in Oxford.

THE WITNESS (Bazinet): The reality is that there's a need for more than just Towantic. So there's absolutely no reason that what you're proposing couldn't happen. It obviously requests private investment -- or requires, excuse me, private investment and a sponsor to move that private investment forward.

I -- I can say, however, that by building five separate 150 megawatt plants you're doing so at significant economies of scale disadvantages and also at thermal -excuse me, efficiency disadvantages because there is no combined-cycle configuration that can be set forth at heat rates that we're proposing today and at that size level. Excuse me.

MR. SAVARESE: Under today's technology, but you don't know where you're

62 (Pages 351 to 354)

	Page 355	Page 357
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	going to be in 2028. Mr. Chairman, that's all the questions I have for the applicant. THE CHAIRMAN: Okay. Thank you. CL&P, do you have any cross? MR. MORISSETTE: No, we don't. We have no present questions, Mr. Chairman. THE CHAIRMAN: Thank you. And the Town of Oxford, do you have any cross-examination? MR. CONDON: We have no questions, Mr. Chairman. Thank you. THE CHAIRMAN: The next on the list are grouped from starting with Naugatuck Valley Chapter Trout unlimited. Since I wanted to close at five, since obviously we're not going to end everything this afternoon, I think what we'll do is we're going to adjourn the hearing now, and we will continue the evidentiary portion of this hearing in New Britain on Tuesday, February 10th, at 11 a.m. in the same place. Please note that anyone who has not become a party or intervenor, but who	1 CERTIFICATE I hereby certify that the foregoing 247 2 pages are a complete and accurate computer-aided transcription of my original 3 verbatim notes taken of the Continued Public Hearing in Re: DOCKET NO. 192B, MOTION TO 4 REOPEN AND MODIFY THE JUNE 23, 1999 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY 5 AND PUBLIC NEED BASED ON CHANGED CONDITIONS PURSUANT TO CONNECTICUT GENERAL STATUTES 6 §4-181A(B) FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A 785 MW DUAL-FUEL COMBINED 7 CYCLE ELECTRIC GENERATING FACILITY LOCATED NORTH OF THE PROKOP ROAD AND TOWANTIC HILL 8 ROAD INTERSECTION IN THE TOWN OF OXFORD, CONNECTICUT, which was held before ROBERT 9 STEIN, Chairperson, at the Connecticut Siting Council, 10 Franklin Square, New Britain, Connecticut, on January 29, 2015. 11 12 13 14 15 16 Robert G. Dixon, CVR-M 857 Court Reporter 17 UNITED REPORTERS, INC. 90 Brainard Road, Suite 103 18 Hartford, Connecticut 06114
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	desires to make his or her views known to the Council, may file written statements with the Council until the record closes. Copies of the transcript of the hearing will be filed at the Oxford and Middlebury Town Clerk's offices. And thank you all for your participation and patience, and drive home safely. (Whereupon, the witnesses were excused, and the above proceedings were adjourned at 4:39 p.m.)	Page 358 I INDEX WITNESSES JON DONOVAN TANYA BODELL Page 118 DANIELLE POWERS ANDREW J. BAZINET D. LYNN GRESOCK FREDERICK SELLARS CURTIS C. JONES Page 119 EXAMINATION Mr. Perrone Page 122 Mr. Pietrorazio Page 291 Mr. Savarese Page 334 EXHIBITS (Received in evidence.) EXHIBIT DESCRIPTION PAGE II-B-1 Motion to Reopen and Modify 122 the Connecticut Siting Council's June 29, 1999, issuance of a Certificate of Environmental Compatibility and Need, received November 3, 2013 II-B-2 Pre-Hearing Conference 122 Submittal, dated November 12, 2014 III-B-3 CPV Towantic Responses to 122 Council's Interrogatories, Set 1, dated December 29, 2014 a.) CPV Towantic Bulk Filing on CD in response to Council Interrogatory 14, dated December 19m, 2014. II-B-4 CPV Towantic Responses to 122 Town of Middlebury's Interrogatories, dated January 8, 2015 II-B-5 CPV Towantic responses to 122 Borough of Naugatuck/WPCA Interrogatories, dated January 8, 2015

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7 8 9	II-B-11 CPV Towantic Updated Witness 113 List with Attached Resume of Jon Donovan	
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