1 STATE OF NEW HAMPSHIRE 2 SITE EVALUATION COMMITTEE 3 October 20, 2016 - 1:30 P.M. DAY 11 AFTERNOON SESSION 4 49 Donovan Street Concord, New Hampshire ONLY 5 6 SEC DOCKET NO. 2015-02 IN RE: 7 ANTRIM WIND ENERGY, LLC; Application of Antrim Wind Energy, LLC for a Certificate 8 of Site and Facility. 9 (Hearing on the merits) 10 11 PRESENT FOR SUBCOMMITTEE: SITE EVALUATION COMMITTEE: 12 Cmsr. Robert R. Scott Public Utilities Commission 13 (Presiding as Presiding Officer) Cmsr. Jeffery Rose 14 Dept. of Resources & Economic Development 15 Dr. Richard Boisvert Dept. of Cultural Resources/ (Designee) Div. of Historical Resources 16 John S. Clifford Public Utilities Commission (Designee) 17 Dir. Eugene Forbes Dept. of Environmental (Designee) Services/Water Division 18 Public Member Patricia Weathersby 19 Also Present for the SEC: 20 Michael J. Iacopino, Esq. (Brennan... 21 Pamela G. Monroe, SEC Administrator Marissa Schuetz, SEC Program Specialist 22 COURT REPORTER: Cynthia Foster, LCR No. 014 23 24

INDEX WITNESS PANEL CHRIS WELLS MARY ALLEN (Resumed) Cross Examination by Ms. Scott QUESTIONS FROM SUBCOMMITTEE MEMBERS & SEC COUNSEL BY: By Cmsr. Rose By Mr. Clifford By Cmsr. Scott WITNESS CHARLES A. LEVESQUE PAGE NO. Direct Examination by Mr. Iacopino Cross-Examination by Ms. Von Mertens Cross-Examination by Ms. Linowes Cross-Examination by Mr. Block Cross-Examination by Ms. Berwick Cross-Examination by Ms. Maloney Cross-Examination by Mr. Richardson Cross-Examination by Mr. Needleman {SEC 2015-02} [Day 11/Afternoon Session ONLY] $\{10-200-16\}$

1		INDEX (Conti	nued)
2			
3	QUESTIONS FROM SUBCO MEMBERS & SEC COUNSI		
4			1 E O
5	-	. Boisvert	
6	-	. Weatherby	
7	-	. Clifford	
8		sr. Scott	
9	By Mr	. Iacopinio	160
10	Redirect Examinatior	ı by Ms. Allen	173
11			
12			
13	WITNESS DR.	FRED WARD	PAGE NO.
14	Direct Examination k	by Mr. Iacopino	169
15	Cross-Examination by	y Ms. Linowes	171
16	Cross-Examination by	/ Ms. Berwick	193
17	Cross-Examination by	Mr. Richardson	210
18	QUESTIONS FROM SUBCO		
19	MEMBERS & SEC COUNSI	CL BY:	
20	By Mr	. Iaocopino 22	3
21			
22			
23			
24			
	{SEC 2015-02} [Day 1.	1/Afternoon Session	ONLY] {10-200-16}

1		EXHIBITS	
2	EXHIBIT ID	DESCRIPTION	PAGE NO.
3	LA 15	Document titled "Allen/	
4		Levesque Intervenor Antrim	
5		Wind/Town of Antrim PILOT	
6		Agreement Analysis Update"	29
7	LA 16	Response to Request No. 20	
8		Witness: Charles levesque	172
9	Antrim 7	Document from Innovative	
10		Natural Resource Solutions,	
11		LLC titled "Cost of Community	
12		Services Study Town of Mont	
13		Vernon, NH	103
14	Antrim 8	Webpage Printout: Town of	
15		Antrim, NH Planning Board	
16		Minutes of January 23, 2014	122
17	Antrim 9	Docoument titled "Skiing/Cross	ł
18		Country", Page 48	125
19	Antrim 10	Document with the title of	
20		"Norman MacDonald, 77	
21		longtime WBZ weatherman	
22		by Tom Long, Globe staff,	
23		(4/26/2002)	221
24	App. 45	Document from Jean Vissering	

1		Landscape Architecture titled
2		"Preliminary Review of Antrim
3		Wind Energy Ordinance and Wind
4		Energy Siting Considerations,
5		(7/25/11) 136
6	App. 46	Webpage Printout: Town of
7		Antrim, NH, Planning Board
8		Minutes, 7/28/2014 136
9	Abutter 44	Document from NOAA titled
10	(AB 44)	"Local Climatological Data
11		Monthly Summary" unmarked
12	Abutter 45	Applicant's Response to
13	(AB 45)	Site Evaluation Committee
14		1-1, Witness: Robert O'Neal unmarked
15	Abutter 46	Document from NOAA titled
16	(AB 46)	"2015 Local Climatological
17		Data Annual Summary with
18		Comparative Data Concord, NH" unmarked
19		
20		
21		
22		
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	[SEC 2015-02]	[Day 11/Afternoon Session ONLY] {10-200-16}

1	PROCEEDINGS
2	
	(Hearing resumed at 1:33 p.m.)
3	WITNESS PANEL: CHRIS WELLS MARY ALLEN
4	(Resumed)
5	PRESIDING OFFICER SCOTT: All right. We're
6	back. A couple of administrative items first.
7	Ms. Berwick, you handed out something you had
8	marked Abutter Exhibit 42. We're actually going
9	to label it Exhibit 43 for the record. Also for
10	the SEC Administrator, you had some words of
11	advice on the Wi-Fi here.
12	PAMELA MONROE: Yes. I just wanted to, I
13	was talking to Counsel for the Public shortly
14	after the break, and I just wanted to let folks
15	know for the Wi-Fi network the one that you
16	should be on is NP Public. If you're on a
17	different Wi-Fi, it's not really as robust as
18	the NP Public so there's no password needed.
19	Just connect into that. I know she was having
20	some trouble accessing documents.
21	PRESIDING OFFICER SCOTT: Okay. So we left
22	off with the current panel. Mr. Levesque has
23	since joined the room so what we'll do is when
24	we're done with the Wells/Allen panel, we'll

 $\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session] $\{10-20-16\}$

1		bring Mr. Levesque up, and, hopefully, we won't
2		retread any ground, but we'll move on from
3		there. So I think and we left, was it Ms.
4		Scott, are you questioning, is that right?
5		MS. SCOTT: Yes.
6		CROSS-EXAMINATION
7	BY M	IS. SCOTT:
8	Q	So Mr. Wells, I'd like to start with you.
9		Quabbin to Cardigan isn't governed by a Board.
10		It's just made up of partners.
11	А	(Wells) Correct.
12	Q	And those are private and public partners?
13	A	(Wells) correct.
14	Q	Among them, and I'm just going to name the ones
15		that have been involved in this docket are the
16		Nature Conservancy, NEFF, New Hampshire Audubon,
17		the Harris Center, and AMC was involved in the
18		prior docket and has not participated in this
19		docket because they've reached settlement with
20		the Applicant. U.S. Fish & Wildlife and New
21		Hampshire Fish & Game. Do you have reason to
22		know that fact that I've just told you?
23	А	(Wells) You're asking for confirmation, yes.
24		They would all be part of the Q2C.

1	Q	Okay. These entities in their involvement with
2		Q2C, they're the ones that actually perform
3		studies and physically manage conservation lands
4		that are part of this swath of maps.
5	A	(Wells) Correct. Right. The Quabbin to
6		Cardigan does not in itself do transactions. It
7		does not in itself as its own separate entity
8		manage properties. It's a selection of agencies
9		and entities and organizations that do.
10	Q	Yes. The conservation plan that you talked
11		about sort of participating in the foundation of
12		it was completed in 2007.
13	А	(Wells) Yeah, '06, '07, yes.
14	Q	So I know you weren' part of the prior docket,
15		2012 docket, like Ms. Allen was, but certainly
16		that plan would have been done, it would have
17		been public, people would have been aware of it
18		in the 2012 docket?
19	А	(Wells) Should have been, yes.
20	Q	And all of those members we already talked
21		about. The partners of the partnership.
22	А	(Wells) Yes.
23	Q	It certainly could have been considered at that
24		time. You don't know one way or the other

 $\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session] $\{\texttt{10-20-16}\}$

1		whether it was because you weren't
2		participating.
3	А	(Wells) I don't.
4	Q	Is it fair to say you haven't carefully reviewed
5		all the documents submitted in this docket?
6	А	(Wells) Like globally speaking all the
7		documents? That's fair enough. Yes.
8	Q	What about the Application?
9	A	(Wells) The Application, have not.
10	Q	Okay. And you specifically referenced a Nature
11		Conservancy letter?
12	А	(Wells) Yes.
13	Q	That you didn't read but you sort of skimmed it.
14	А	(Wells) I gave it a scan yesterday.
15	Q	So assuming that letter is tailored to an
16		evaluation of this specific project site?
17	А	(Wells) Right.
18	Q	That's something the Committee should put
19		special weight in.
20	А	(Wells) Are you telling me that?
21		MS. MALONEY: I'm not sure that he's
22		qualified to answer that.
23	Q	I think you already have. I think earlier when
24		you were speaking, you were suggesting and maybe

1		I can just rephrase this. That to the extent
2		that the Committee has specific information
3		about the specific site, that is the information
4		they should rely on more heavily than sort of
5		this compilation of maps.
6		MS. MALONEY: I'm going to object again.
7		I'm just going to object that if Nature
8		Conservancy wanted to be an Intervenor, they
9		could have. They submitted a comment letter.
10		So we don't even know what kind of evaluation
11		that they did. All we have is the four square
12		of the letter. So I don't think that based on
13		that letter they should be given higher and
14		greater weight than any other commentator, and I
15		don't think Mr. Wells is qualified to answer
16		that.
17		PRESIDING OFFICER SCOTT: Well, we've given
18		a lot of purviews to some others and, again, we
19		do have Mr. Wells' resume or CV so we'll take
20		that into account so give a concise answer if
21		you could.
22	А	(Wells) Concise answer would be I would not have
23		an opinion one way or the other whether it
24		should be given more or less weight.

1	Q	When you were speaking earlier and answering
2		some questions about the way that the Q2C map
3		that we've all been talking about was compiled
4		it's based on high-level, statistical
5		information about general landscape features.
б	А	(Wells) That's fair.
7	Q	So you would agree then to the extent that there
8		are specific studies and evaluations of this
9		project site, those would trump a high level map
10		in terms of how you should value the information
11		provided therein?
12	A	(Wells) And I guess I will just repeat myself.
13		I will not agree to say that it should, I mean,
14		as you phrased it, should trump that. No. To
15		Chairman Scott's point, I'm going to try to keep
16		it quick. So no, I would not agree with that
17		statement.
18	Q	A high-level map detailing landscape level
19		information doesn't provide more information
20		than an onsite study evaluating wildlife and
21		ecological impacts.
22	А	(Wells) Again, you're trying to use essentially
23		sort of quantifying terms here. I think they're
24		kind of apples and oranges, and what I was

 $\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session] $\{\texttt{10-20-16}\}$

trying to get at earlier, you know, couple of 1 2 times was what I think is of real interest is on 3 these kinds of projects and any other big 4 projects being proposed in some of these areas 5 is how does the on-the-ground detail-level 6 research inform back to the higher level 7 planning documents that we're all using for guidance and really do. Significant pots of 8 9 money attached to them, et cetera. So that's 10 what I'm, I'm not saying, I'm really not saying 11 whether one is better than the other. I think 12 hopefully that the site specific informs and 13 helps better calibrate the broader planning 14 documents that you're using is what I'm saying. 15 So I'm not going to agree with you that one 16 should trump the other. Considering the partners of the Quabbin to 17 Q 18 Cardigan Partnership you would agree it's 19 important to consider their individual opinions 20 to the extent that they have stated what they 21 are. 22 (Wells) Yes. Α 23 0 The broader Quabbin to Cardigan purpose is 24 conservation of land forever, right? I mean --

1	А	(Wells) Correct.
2	Q	that's the number one objective.
3	А	(Wells) Correct in those areas that are, based
4		on everything we think we know, those highest
5		priority lands to be protected in perpertuity,
6		yes.
7	Q	So if we look at Exhibit LA-14, and I'm talking
8		about that exhibit specifically because there's
9		a circle on it, are you aware from what you have
10		reviewed in this docket that if this project is
11		approved, the area within that circle that's
12		currently not colored would be become largely
13		green. It would be conserved in some way that
14		it would have one of these green scale
15		designations.
16	А	(Wells) I am generally aware that there is some
17		kind of deal that has been struck for an
18		easement to be put on the balance of the
19		property, yes, I am aware of that.
20	Q	So at the Application 33 Figure C-5, that's
21		actually where the chunks of land parcel that
22		would be subject to conservation easements are
23		reflected in. Have you reviewed that specific
24		figure?

1	A	(Wells) I have not.
2	Q	Okay. Those conservation lands would actually
3		physically abut other conservation lands that
4		you do see appearing on that map.
5	A	(Wells) Um-hum.
6	Q	That would certainly make them higher in value
7		to physically abut other conservation lands from
8		a conservation perspective, right?
9	А	(Wells) Again, you're hitting me with these sort
10		of qualitative/quantitative. I mean, I guess I
11		would just reply, yes, generally speaking, I
12		mean, I was the one that used the puzzle pieces
13		analogy earlier. Those of us that arein the
14		business of trying to put these lands together
15		out of what are many individual parcels, we do
16		try to put puzzles together so if you are
17		putting in a big puzzle piece abutting these
18		other surrounding lands, then, yes, that would
19		be a good thing.
20	Q	Are you aware that those owners of those lots
21		have said if this project is not approved, they
22		would not, every single one of them have said
23		they would not conserve that land.
24	A	(Wells) I was not aware of that one way or the

 $\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session] $\{\texttt{10-20-16}\}$

1		other.
2	Q	And you don't have reason to know that the
	Q	-
3		content of those easements is such that they
4		would become effective as soon as the project is
5		operational? Not some 50 years from now.
6	А	(Wells) I did not know the detail one way or the
7		other.
8	Q	The sooner land could be conserved the better
9		from a conservation perspective, right?
10	А	(Wells) Here we go again. I guess that's one of
11		those "it depends." I mean, it's a very generic
12		question so I'm not sure I know how to answer it
13		one way or the other so I guess I won't.
14	Q	When the Quabbin to Cardigan partners that have
15		been involved in this docket have made their
16		decisions about whether to support, remain
17		neutral, oppose or not, one of the things that
18		they're looking at in making those decisions is
19		certainly their own individual values, but it
20		would also be the impact of the project. You
21		would agree with that as a proposition of how
22		they make their decisions?
23	A	(Wells) Make sure I'm straight. They be the
24		Quabbin to Cardigan partnership?

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1	Q	Members or partners. I'm sorry.
2	A	(Wells) Partners, members, whichever. Just to
3		make sure we're clear with each other, you know,
4		to my knowledge and I'm pretty sure it's
5		certain, this is not, this or any other like
6		project has never been brought up in the context
7		of the Quabbin to Cardigan partnership so just
8		to make sure that everybody understands that.
9		And to reiterate again, I am here as a citizen
10		with a lot of experience from the formation of
11		Q2C partnership trying to provide information so
12		just to recap that after lunch. So any
13		discussions about this or any other project
14		will, by default, will be by individual
15		organizations deciding what they want to do or
16		not do. So I'm confirming what you're saying
17		but giving some context.
18	Q	And they're going to be looking at the long-term
19		conservation values of specific areas of land.
20	A	(Wells) If the "they" is now we're talking about
21		the individual groups, is that what we're
22		talking about?
23	Q	Yes.
24	А	(Wells) Well, then that, not to be glib but I

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1		mean that's for them to answer.
2	Q	Absolutely.
3	A	(Wells) Right?
4	Q	Absolutely.
5	A	(Wells) I'll leave it at that. It's for them to
6		answer.
7	Q	Ms. Allen, I have have a series of questions for
8		you now.
9	А	(Allen) Okay.
10	Q	You were a participant in the 2012 docket?
11	А	(Allen) Yes.
12	Q	In that, in your testimony in that docket, you
13		spoke about tax issues.
14	А	(Allen) Right.
15	Q	You never raised Quabbin to Cardigan or the
16		Harris Center Sanctuary?
17	А	(Allen) No. That was not my concentration at
18		that point.
19	Q	But both of these organizations and their
20		initiatives and mission existed in 2012.
21	А	(Allen) Yes.
22	Q	And you were aware of them in 2012?
23	А	(Allen) Yes.
24	Q	You are not a member of any of the Quabbin to

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1		Cardigan partners?
2	A	(Allen) No, I'm not.
3	Q	You don't speak on behalf of any of them today?
4	A	(Allen) No. I don't.
5	Q	And the Harris Center is one of those so in
6		asking that question I'm also asking if you're a
7		member of the Harris Center.
8	A	(Allen) I am not.
9	Q	You have been actively involved in this docket.
10		So is it fair to say you're aware of
11		organizations that are Quabbin to Cardigan
12		partners and whether they are positive,
13		negative, neutral, supportive of the project?
14	A	(Allen) Yes.
15	Q	And so if I were to recite that the Nature
16		Conservancy is supportive, NEFF is supportive
17		you would agree with me?
18	А	(Allen) Um-hum.
19	Q	That in fact of all of the Quabbin to Cardigan
20		partners that are in any way participating in
21		this docket, the only one that opposes it is New
22		Hampshire Audubon.
23	А	(Allen) Yes. I think that's, I believe that the
24		Harris Center has remained neutral on it.

1	Q	Right.
2	А	(Allen) they're not part of the
3	Q	I mean they're participating, they're here,
4		they're sitting in the room, and they're not
5		opposed to it.
6	А	(Allen) They are neutral.
7	Q	Okay. I have no further questions for this
8		panel.
9	A	(Allen) thank you.
10		PRESIDING OFFICER SCOTT: Dr. Boisvert?
11		DR. BOISVERT: No questions.
12		PRESIDING OFFICER SCOTT: Commissioner
13		Rose?
14	BY (COMMISSIONER ROSE:
15	Q	Thank you. Just one or two real quick
16		questions. I guess, would it be fair to say
17		that the Q2C primary focus is on land
18		conservation, is that fair to say?
19	A	(Wells) Yes.
20	Q	And the ridgeline that you expressed concerns
21		about earlier, that is not currently protected,
22		is that right?
	A	
22	А	is that right?

 $\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session] $\{10-20-16\}$

1		proposed to be built is just currently, is
2		currently private property subject to no
3		restrictions. There's a bunch of land around it
4		that is.
5	А	(Allen) that's true.
6	Q	So there would be long-term benefit to having
7		that ridgeline under an agreement?
8	А	(Wells) Yes. Just give a yes.
9	Q	Great. And so even in so, but when you look at
10		it from a long-term benefit, that's the way that
11		you're looking at it from a land management
12		perspective is sort of the long-term benefit?
13	А	(Wells) I'm not, I just want to make sure I
14		understand the context of your question.
15	Q	Getting the land, the conservation lands that
16		would be coming to this as part of this project,
17		that would have a long-term benefit that would
18		be consistent with the Q2C overall objective?
19	A	(Wells) I think I can only say that that's a
20		fair enough thing to say, yes, but I will then
21		just with a caveat to say but this is, as you're
22		well aware, I mean this is what you're spending
23		all this time on, that's one issue but then the,
24		what is the near sort of short-term, medium-term

1		and then long-term impact of the actual facility
2		to be built is kind of its own thing. And so as
3		long as you understand that I would separate
4		those two things that certainly, yes, having the
5		balance of the acreage going to permanent
6		conservation is a good thing.
7	Q	Sure. So it would be fair to there's short-term
8		and long-term perspectives on this, but
9		generally speaking from a long-term management
10		you're taking a look at the long-term?
11	А	(Wells) Generally speaking with land
12		conservation and you are, obviously, familiar
13		with it from DRED stuff, that is sort of the old
14		point. I mean, it's forever, it's perpetuity
15		saying that these are properties that we want to
16		say this is what makes the conflict, right?
17		In an undeveloped state. Well, it isn't exactly
18		that simple in this case, but the balance of the
19		property that's doesn't have a facility on it,
20		then that would apply.
21	Q	Great. Thank you.
22	А	(Wells) Thank you.
23		PRESIDING OFFICER SCOTT: Mr. Clifford?
24	BY M	R. CLIFFORD:

 $\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session] $\{\texttt{10-20-16}\}$

1	Q	This going to to be relatively pithy. You
2		talked about this ridgeline being the
3		headquarters for the Merrimack.
4	А	(Wells) This particular one? I couldn't tell
5		you without looking at the, where the line runs.
6	Q	And the Connecticut River also?
7	А	(Wells) When I said that, I was talking about
8		the whole corridor itself. So it is the
9		watershed line between the two.
10	Q	So I just wanted to remind you that the
11		headquarters of Connecticut actually start at
12		the First, Second, Third and Fourth Connecticut
13		Lakes, not this area.
14	A	(Wells) No. Totally understand, and all I meant
15		by headquarter was essentially height of land,
16		by height of land, not literally north to south.
17	Q	Okay. Thank you.
18		MR. FORBES: No questions.
19	BY I	PRESIDING OFFICER SCOTT:
20	Q	First of all, on the, I'll admit prior to this
21		docket I wasn't particularly familiar with the
22		Q2C initiative. It's very intriguing to me. So
23		I was curious. In the tracks that you have
24		right now, and I guess you can see from the

1		graphic we have, we've been handed out, is it
2		safe to say there's, for the most part, there's
3		contiguous paths for wildlife and
4	А	(Wells) In terms of conserved land or just sort
5		of the land itself?
6	Q	Lands that's not developed. Let's put it that
7		way.
8	A	(Wells) In a very general I'll take it in a
9		very general sense question and I'll answer it
10		as kind of a yes. There are obviously, here we
11		go again, fragmenting roads going off and
12		particularly going east/west across what is the
13		north/south corridor, but, yes, that was kind of
14		the main points of it is, and I've said it
15		before, that you've got these larger blocks of
16		forest land but they're still well kind of
17		connected together, both in terms of the, we
18		haven't even talked about human recreation but
19		also for purposes of human recreation but
20		certainly for wildlife passage.
21	Q	And you mentioned the obvious. Obviously, there
22		are highways and roads, and I think that would
23		be the, certainly a definition of fragmentation.
24	А	(Wells) Oh, absolutely. Yes.

1	Q	And towns obviously, too.
2	А	(Wells) Yes.
3	Q	So to paraphrase, one of your goals of the
4		organization is to try to limit the furtherance
5		of that type of activity; is that fair?
6	A	(Wells) Yes. I think that's fair. Especially
7		to be more specific to say to try to, to the
8		extent that it's possible via doing permanent
9		conservation to essentially avoid the
10		fragmentation of especially the sort of the
11		biggest and most at least we think ecologically
12		significant of these forests.
13	Q	I think you've answered this that you didn't
14		know, but I'll take a different tack. Are you
15		familiar with the conservation easements that
16		would be part of project?
17	A	(Wells) As I said to the attorney here, I'm
18		aware of them in a general way, but I don't know
19		the specifics.
20	Q	Would that be, those lands coming to
21		conservation, would they generally be helpful to
22		the initiative?
23	A	(Wells) Yeah. I mean, we've had sort of
24		versions of that question.

Q Yes.
A (Wells) I would say sure, in the grand scheme of
things, sure. It's clearly, I mean, putting the
wind farm aside for a minute, it's a big acreage
puzzle piece surrounded by other conservation
land in one of these hot spots so yes, it would
be.
Q And I understand the details are always
important.
A (Wells) Right.
PRESIDING OFFICER SCOTT: So I think we're
done with the two of you. And what we'll do is
we'll ask Mr. Levesque to come up. I thought
you left again, Mr. Levesque.
A (Wells) Thank you for your time and patience.
PRESIDING OFFICER SCOTT: Thank you. We'll
go off the record while we're moving the
panelists.
(Discussion off the record)
CHARLES A. LEVESQUE, DULY SWORN
PRESIDING OFFICER SCOTT: And, Mr.
Iacopino, if I could get you to have him adopt
his testimony.
BY MR. IACOPINO:

0 Mr. Levesque, I have in front of me LA 3 which 1 2 is identified as your Prefiled Testimony. Is 3 that in fact the case? 4 Α It is. 5 0 And do you adopt that testimony as your 6 testimony in this proceeding here today? 7 Α I do. I do have an update, however. 8 We'll get to that in just a minute. Do you have 0 9 any Supplemental Prefiled Testimony? 10 Α I did not file any formal Supplemental Prefiled 11 Testimony. 12 Q Do you have any changes to anything that's in LA 13 3? 14 Α Yes, I do. 15 Please report us to the page. 0 16 Page 6 in the numbering in my PDF, there Α Yes. 17 is a question on line 17 that says "can you tell 18 us what the property tax ramifications are," et 19 cetera, and the numbers in there have changed. 20 During the tech session Attorney Richardson 21 pointed out what he thought was an error in 22 those numbers, and I went back to take a look at 23 those, and in fact, these were projected off the 24 earlier numbers when there was an addendum to

1		the PILOT agreement, and so I've got the correct
2		numbers now based on how the PILOT agreement
3		reads.
4		And so the numbers in the answer have
5		changed, and I have a one-pager that shows that
6		if I could hand that out to you.
7		MR. IAOCOPINO: If you brought copies, that
8		would be great.
9	A	I did.
10		MR. IACOPIINO: Thank you.
11	А	I've got it listed as LA-1. I don't know if
12		that's the next one. I think so.
13		PRESIDING OFFICER SCOTT: While we're
14		checking, Mr. Levesque, so you said you thought
15		it was 16. Are you aware of a 15?
16		MR. LEVESQUE: Could be that this is 15. I
17		know that we had something that came in after we
18		originally filed, and I thought the last number
19		was 15, but it might have been 14. I can't
20		remember, but I remember that Ms. Allen had a
21		map that got added afterwards, and I actually
22		thought that was 15, but I could be wrong, and
23		it could be that this is 15.
24		MR. IACOPINO: The map is LA 14. Now,

1		there is a difference between what was filed
2		before we started as LA 14 and what we have
3		before us today, and that is the circle that was
4		drawn in the area where the project is. We'll
5		make sure that a copy with the circle is the
6		official record. Okay? So this new exhibit
7		would, if we go in order, be LA 15, not 16.
8		(Exhibit LA 15 marked for identification)
9		MR. IACOPINO: We'll make this LA 15 then.
10		Thank you, Mr. Levesque. Sorry. You were in
11		the middle of explaining what you changed.
12	А	So when I ran the model which I'm sure is going
13		to come up in this cross, we used numbers that
14		were part of the amended version of the PILOT
15		that came around before. I think it was House
16		Bill 217. That's what I recollect. But a
17		couple of years ago, and I suspect the Applicant
18		was part of the work that went into changing the
19		law.
20		The law got changed that allowed the
21		community to assess properties where a PILOT is,
22		in fact, agreed upon at a backed-out valuation
23		based on the PILOT taxes rather than full ad
24		valorem taxes. Sort of a backwards way of doing

1	it. So in this case we'll just throw out a
2	number. I think I heard this earlier when the
3	Applicant was before you. If the project is
4	worth \$65 million, the PILOT as was agreed to by
5	the Applicant and the Town of Antrim actually
б	allows for a backed-out reduced valuation on the
7	books, assessed valuation, of somewhere in the
8	order of 20 million. I don't have the exact
9	number before me. And that statute allowed that
10	to happen.
11	Prior to that, and when I first ran the
12	model, it would not have allowed that to happen,
13	and so this is based on that new assessed value
14	that the PILOT would allow should this project
15	be built so hopefully that's clear. So these
16	are the numbers that result from re-running it
17	that are much more consistent with Attorney
18	Richardson's numbers that he asked me about
19	during the tech session.
20	The net result of this change, however, is
21	that in the model calculations it still shows
22	that over the life of the project, over the
23	20-year life of the project, the ad valorem
24	method of valuation would yield somewhere in the

1	order of just over \$5 million additional net
2	property tax revenue to the Town of Antrim than
3	the PILOT itself would if in fact it goes
4	forward and the project is built.
5	So the net result is really not a whole lot
6	different than the original model runs but the
7	input numbers are very different because of that
8	change in the statute.
9	Q Is it fair to say that the difference in your
10	ultimate conclusion is the difference between
11	\$5,700,000 and \$5,151,794?
12	A That is correct.
13	MR. IACOPINO: He's available for
14	cross-examination.
15	PRESIDING OFFICER SCOTT: The Audubon
16	Society?
17	CROSS-EXAMINATION
18	BY MS. VON MERTENS:
19	Q Thank you. I don't know procedure here, and I
20	don't know how to put this in a question, and I
21	didn't know how to interrupt Mr. Wells's
22	response about the conservation easements so
23	I'll try. I think the disadvantage is that
24	Mr. Wells wasn't here when the conservation

1	easements were being discussed. So here goes.
2	And if he knew that the Ott conservation
3	easement allowed a house and a cell tower, and
4	the Bean conservation easement allowed a road
5	with utilities, and a cell tower to cross right
6	over Tuttle Hill, is there some way we can ask
7	him that question and get him to add that to
8	his because that's just such a, it's very
9	hard up there to keep your presence around you
10	and when you're being asked by the Committee.
11	PRESIDING OFFICER SCOTT: I think I
12	understand.
13	MS. VON MERTENS: Thank you.
14	PRESIDING OFFICER SCOTT: We're done with
15	the panel already, and I don't even think he's
16	here anymore so I don't think that's
17	MS. VON MERTENS: I didn't know if there
18	was a point of order or what I could do or is
19	there there a followup or something? I just was
20	struck dumb because I know what he would say.
21	MR. LEVESQUE: Mr. Chairman, I'd be glad to
22	take a stab at answering that kind of question.
23	If you think it's relevant.
24	PRESIDING OFFICER SCOTT: If your intention

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1	is to say what you think he would say, I'm not
2	interested
3	MR. LEVESQUE: No, definitely not. My
4	opinion, not his.
5	PRESIDING OFFICER SCOTT: Why don't you ask
6	Mr. Levesque that question?
7	BY MS. VON MERTENS:
8	Q Did you mention to Chris what the nature of the
9	conversation easements were?
10	A No. He didn't look at the conservation
11	easements. He didn't look at the maps. Again,
12	his was a high level view based on his past
13	experience with the Q2C. I would have answered
14	the questions that he got asked quite
15	differently, and most specifically, and some of
16	my background, my resume shows this, but I did
17	run a land trust for four years in New
18	Hampshire. I was one of the founding members of
19	LCHIP in New Hampshire. I was the original
20	cochair of the LCHIP Board, and personally we
21	donated a conservation easement on our property
22	when we lived in Deering so I have quite a bit
23	of knowledge about land trust and land
24	protection.

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And the issue here is that while there is land protection being proposed by the project, you've got what is proposed to be the largest development project in the history of the Antrim being embedded in a proposal to protect some land, and so while 50 years from now these lands may in fact be permanently protected and the site rehabilitated to the point that it can because it will never be like it is today, the fact is this is a highly irregular land protection project because it has a massive development right in the middle of it. So the 900 acres, will they have

13 14 conservation value as protected land? Sort of, 15 but right next to it and right in the middle of 16 it, you've got a massive fragmentation project that we never see what we call limited 17 18 development land protection where you have some 19 land protected and some land is developed. This 20 is a highly irregular kind of situation where 21 land has been proposed for land protection. So 22 that gets a little bit down in the weeds, but I have a specific view of it because I know the 23 24 project well, and you know, again, having a lot

A Again, this is highly irregular so I'm not aware of any kind of land protection project that has this extent of development as part of the project itself. It's unique that way.
Q Thank you. I can breathe a little more.
When Chris Wells and Mary Allen were up there, I started my questions by saying that I think it's very appropriate that your panel is here under the SEC's guidelines of orderly development of the region because that's what land conservation is and master planning, and mostly I have a couple questions only, and it's about the master plan part of your testimony.

about the master plan part of your testimony.
Looking at it, it seemed to have all the
familiar small New Hampshire town aspirational
vision statements about rural character. That's
in every master plan. And then is it in keeping
with that master plan, the vision statements and

of experience in New Hampshire doing land

protection work. So hopefully that answers your

And I guess just one followup. How common is it

to have cell towers as part of a conservation

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question.

easement on ridgelines?

1		the actual master plan that the town passed the
2		Rural Conservation District?
3	А	I mean, that happened before this master plan
4		was adopted.
5	Q	The 2010?
6	А	That's correct.
7	Q	Okay.
8	А	It happened under previous master plan, but
9		those previous master plans had similar language
10		about the rural character of the community, et
11		cetera, and I think, again, it happened during
12		the '80s or early '90s is when that happened,
13		and it was definitely one if not two master
14		plans ago.
15	Q	It's pretty standard. Rural character should be
16		capitalized.
17		If you look at the map of the Rural
18		Conservation District, it seems to be a rather
19		large part of the town. Isn't that why so much
20		of the town following orderly development of the
21		region, those tenets?
22	А	I'm not sure exactly the question. It is a big
23		part of the town. That's correct.
24	Q	It is a big part.

1	A	Yes.
2	Q	Was it a goal of orderly development of the
3		region? You identified areas appropriate for
4		conservation and areas appropriate for
5		development?
6	А	Yes. I mean, in this case my direct involvement
7		in this current 2010 master plan was as Chair of
8		the Open Space Conservation Committee, and that
9		happened prior to the adoption of the master
10		plan. So the Selectmen at the time and I'm not,
11		Mr. Robertson, were you on the Board?
12		Mr. Genest was on the Board at that time. The
13		Selectmen asked me to chair the Open Space
14		Committee which they created out of thin air.
15		It was not part of the Conservation Commission
16		to, in fact, develop an open space conservation
17		plan for Antrim, and we did that with a
18		volunteer Committee that they appointed in all
19		of 2005.
20		The plan that came out of that which is
21		part of my testimony as one of the appendices
22		identifies that whole western part of town as
23		priority area for permanent land conservation,
24		and, again, it was based on focus groups and

This plan was built from the bottom up.

conservation section, essentially, of the master plan. So my involvement was in developing that That was, you know, later became part of plan. the master plan. Hopefully that gets to what you were after.

I think -- I come from Peterborough and

Peterborough has its north/south and east/west

highways, 101 and 202, right pretty much in the

middle of the town so open space planning is

more difficult, and I look at your east/west

highway and your north/south highway, Route 9

and 202, and to me there's great logic, and I'm

jealous that you could say the western part of

2 then this plan was adopted at Town Meeting in 3 2006 on a voice vote with no nays. And that 4 plan was incorporated into the master plan in 5 2010 as the conservation section, the permanent 6 7 8

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plan.

Good.

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public meetings and those kinds of things, and

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The Applicant's, Antrim Wind's

1	Application mentions that this project is in
2	keeping with the Antrim master plan. It's
3	mentioned a number of times, and I'm just going
4	to quote one, I guess it's a couple sentences on
5	Application Page 13. I think it's short enough.
б	I don't think you have to look at it, but it
7	says, and it's typical of the other citations.
8	"The Antrim master plan updated in 2010
9	speaks extensively and supportively of the need
10	for renewable energy development." See Appendix
11	15. "The master plan contains a 15-page section
12	addressing climate change, energy efficiency and
13	renewable energy and calls for the Planning
14	Board and planning department to encourage
15	renewable energy uses. The project is clearly
16	consistent with these goals."
17	Your testimony in large part is about the
18	master plan. When I read this in the
19	Application, I looked at that Section 4 in the
20	Antrim Master Plan, and it's titled Energy Usage
21	and Conservation. So my question to you, my
22	sense reading the master plan was that it really
23	was about energy usage and conservation, and so
24	my question to you being more familiar with the

1		master plan, was it advocating a utility scale
2		wind energy project in the conservation
3		district?
4	А	That section of the master plan, and again, this
5		came out when the Selectmen were on, we had
6		discussions about this, but that section of the
7		master plan does not get specific at that level,
8		and so on a broad level, I think the Applicant's
9		correct. It talks about encouraging renewable
10		energy, and in that respect it's consistent with
11		the master plan, but as I asked the Applicant
12		and the Selectmen when they were here, you know,
13		they chose to ignore the other section of the
14		master plan which essentially adopts the Antrim
15		open space conservation plan and that plan says
16		that we should work to conserve, permanently
17		conserve, that whole part of town.
18		So while the project may be consistent with
19		one part of the master plan it is totally
20		inconsistent with the other part which is about
21		land conservation and open space conservation.
22	Q	Okay. I interpreted the title of the chapter or
23		the section Energy Usage and Conservation as
24		meaning the more standard things like an Energy

1		Committee Antrim her on Encourse Committees
1		Committee. Antrim has an Energy Committee?
2	A	It is. That's what that section about.
3	Q	It's energy audits of town buildings. And just
4		one last question. I read the same regional
5		newspaper you do, and I think I've read about
6		Antrim is in the process of starting a solar
7		project. Would that be in keeping with your
8		master plan?
9	A	Yes. A developer has come in to utilize some
10		town-owned land around the wastewater treatment
11		plant.
12	Q	Oh, just like Peterborough.
13	A	Exactly.
14	Q	We have the largest in the state. Are you going
15		to be larger?
16	A	I don't think so.
17	Q	We like the boasting rights. So will that be
18		distributed energy into like Peterborough and to
19		local
20	A	Goes into the grid. So just like the proposed
21		wind project goes into the grid and wherever you
22		buy your power determines whether you get it or
23		not. At least on paper.
24	Q	Okay. Thank you.

1		PRESIDING OFFICER SCOTT: Are you all set?
2		MS. VON MERTENS: Yes.
3		PRESIDING OFFICER SCOTT: Ms. Linowes?
4		CROSS-EXAMINATION
5	BY I	MS. LINOWES:
6	Q	Thank you, Mr. Chairman. Good afternoon.
7		According to your Prefiled Testimony on page 2,
8		I just want to confirm this. You're covering
9		several major points in your Prefiled Testimony
10		including the PILOT agreement and the town
11		zoning. Is that correct?
12	A	That's correct.
13	Q	And on page 6, line 17, you talk about the
14		property tax ramifications as a result of the
15		PILOT which I did hand out this handout.
16	A	Yes.
17	Q	And I wanted to ask you, Antrim is part of the
18		ConVal School District; is that correct?
19	A	That's correct.
20	Q	And how many towns are in that School District?
21	A	Antrim is one of nine communities in the ConVal
22		School District.
23	Q	And does this PILOT agreement affect those towns
24		in any way?

1	А	Yes. So prior to, again, I believe it's House
2		Bill 217 that passed that affected that
3		valuation issue which I addressed before, and
4		that was two sessions ago, I believe. Prior to
5		that, if a project like this came to town,
6		whether it's this project or any large project,
7		the valuation, the assessed valuation that goes
8		on the books then is used in the formula that
9		ConVal uses to essentially charge the towns for
10		being a member of the School District for
11		sending your kids to the School District, and
12		the formula in the ConVal School District is 50
13		percent based on assessed valuation and 50
14		percent based on number of students. Okay?
15		So prior to House Bill 217 passing, if I
16		got that correct, the valuation for the School
17		District assessment of each town would have
18		changed based on the assessed value that this
19		project, again, if we assume 65 million when
20		it's built, would assume that \$65 million is
21		assessed value that would affect that 50 percent
22		that is based on the assessed value.
23		So if prior to House Bill 217 the valuation
24		would have obviously increased tremendously in

1	Antrim compared to any other community like in
2	one year, and it could have caused the formula
3	to require Antrim to pay the district a whole
4	lot more money, and assuming normal budgeting
5	processes, it essentially would reduce the
6	payments that other communities would have to
7	make, right? Because it's the overall
8	assessment among nine communities, and Antrim's
9	just increased by X amount.
10	So after House Bill 217 and with the PILOT
11	should the project go forward, that principle
12	still would hold except that in this case,
13	because the legislation allows the assessed
14	value to be based on that PILOT agreement which,
15	again, I think it's somewhere in the order of 20
16	million as opposed to 65 million and don't, you
17	know, I'm not sure of the exact number, but it's
18	in that range, it would mean that the rest of
19	the communities, the other eight communities
20	will be paying more taxes than they would have
21	had the PILOT not been agreed to and had not
22	House Bill 217 passed. So the other communities
23	are affected by this project, and with the
24	passage of that legislation, and the change in

1		the assessed value that it allows, the other
2		communities with affected in a negative way.
3	Q	Okay. Thank you. I want to come back to that
4		in a little bit, but also I wanted to ask you,
5		according to your Prefiled Testimony you also,
6		at one time lived in Deering; is that correct?
7	A	Yes. We lived in Deering for about 10 years, I
8		believe.
9	Q	And you chaired the Conservation Commission
10		there?
11	A	I did.
12	Q	And also you were town moderator?
13	A	I was town moderator for three terms, and I also
14		was on the Master Plan Committee during one of
15		the cycles.
16	Q	And Deering is immediately east of Antrim; is
17		that correct?
18	A	Correct. It abuts Antrim to the east.
19	Q	And you also served on Antrim's Open Space
20		Committee?
21	A	I chaired that Committee, yes.
22	Q	And on the Planning Board?
23		MR. NEEDLEMAN: Mr. Chair, I'm going to
24		object at this point. It sounds like we're just

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1		running through his resume. Stuff that's
2		already on record.
3		MS. LINOWES: That's okay. I'm sorry. I'm
4		fine.
5	Q	So in your role on the Open Space Committee and
6		also the Planning Board, is it reasonable or
7		expected that these committees and boards would
8		pay attention to what's happening in neighboring
9		communities?
10	A	The Planning Board?
11	Q	Yes.
12	A	I mean, the Planning Board has a responsibility
13		to look at projects that may have regional
14		impact, and then allow essentially other
15		communities or residents thereof to have
16		standing in Planning Board processes.
17	Q	So it's fair to say that if this project were to
18		go through the Planning Board process in the
19		town as opposed to the SEC, that it would likely
20		be deemed a development of regional impact?
21	А	My opinion would be that it would likely be,
22		right. They would be going for a major site
23		plan review if they tried to build a project at
24		the local level, and I can't believe, I mean,

1		the Planning Board would have to deem it a
2		project of regional impact.
3	Q	And just to be clear, my understanding of that,
4		a development of regional impact, is any
5		proposal that could be expected to impact a
6		neighboring community; does that sound about
7		right?
8	A	Yes.
9	Q	Now, you're aware that the town of Deering
10		submitted a letter to the Site Evaluation
11		Committee expressing its opposition to this
12		project and also stating that it had passed a
13		wind ordinance aimed at protecting viewsheds,
14		are you aware of that?
15	А	Yes. I read it.
16	Q	Are you aware of or have you seen anything in
17		the Application submitted by AWE that includes
18		an assessment of economic effect of the facility
19		on the towns in the ConVal School District?
20	А	In the Application? I mean it's, I don't have
21		it up, and it's been a while since I went
22		through the whole thing. I don't recall that
23		being in there, but I could be wrong.
24	Q	Are you aware of or have you read anything in

1		the AWE Application that describes the
2		prevailing land uses of each community abutting
3		Antrim and whether this project as proposed is
4		consistent with those land uses?
5	A	I don't believe it does that.
6	Q	Are you aware that under our New Hampshire site
7		Rule 301.09(b)(1), the Application as submitted
8		shall include an assessment of economic effect
9		on abutting communities? Are you aware of that?
10	A	I mean, I've read the new rules so yes, to an
11		extent. I don't have it up before me, but yes.
12	Q	And are you aware that also this would be New
13		Hampshire site Rule 301.09(a)(1), the
14		Application should also include a description of
15		the prevailing uses of the affected communities,
16		affected communities being abutting communities?
17	A	Again, I don't have it here. I'll take your
18		word for it that you read out of the rule.
19	Q	And the last one then is probably the same
20		answer, but I'll ask it anyway, 301.09(a)(2),
21		the Application shall include a description of
22		how the proposed facility is consistent with
23		such land uses and abutting communities and
24		identification of how the proposed facility is

1		inconsistent with such land uses.
2		Are you aware of that?
3	A	Sounds right.
4	Q	So and one last question: In the Town of
5		Stoddard, since it is predominantly a community
6		that has significant areas that have been
7		conserved, would you say that this project is
8		consistent or inconsistent with the town of
9		Stoddard?
10		MR. RICHARDSON: I'd like to object to that
11		question please, if I may. The statute calls
12		upon this Committee to consider the views of
13		municipal governing bodies and Planning
14		Commissions, and the letters that have been
15		submitted by Deering and Stoddard speak for
16		themselves. The witness before us is not an
17		official in any town. He's not a Planning Board
18		official. He's not in any municipal official
19		capacity for the Town of Antrim. So his views
20		on whether or not it's consistent or
21		inconsistent really has no bearing. It's not
22		what the law requires this Committee to consider
23		under RSA 162-H 16.
24		PRESIDING OFFICER SCOTT: Ms. Linowes?

It was already stated when I 1 MS. LINOWES: 2 was going through his past experience, it was 3 stated it's already in his resume, so I don't 4 think it was, I stopped that, but clearly he has 5 significant experience in the Town of Antrim to 6 be able to answer that question, whether he's 7 serving today as an official, I don't think is 8 relevant, but --9 PRESIDING OFFICER SCOTT: Can you remind me 10 what the last question was? 11 Yes. The question was in the MS. LINOWES: 12 town of Stoddard which is largely a community 13 that has significant conserved land, would he 14 consider this project consistent with the land 15 uses in an abutting town 16 PRESIDING OFFICER SCOTT: So I have to 17 agree. Why don't we keep the questions to the 18 area of expertise that he's laid out which would 19 be Antrim, I believe, is what he's discussing, I 20 believe. 21 MS. LINOWES: Yes, only to the, and that's 22 fine, but only to the extent that he said he's 23 served on open space communities which means 24 that goes beyond actually the boundaries of

1	Antrim. That would be my comment, but I'm fine.
2	He doesn't have to answer the question.
3	PRESIDING OFFICER SCOTT: Okay. We'll move
4	on.
5	A Mr. Chairman, could I make I'm sorry. Could
6	I respond a bit to Attorney Richardson's
7	comment? Would you allow me to say a few words?
8	Because there's something significant that isn't
9	in the record about that, and I just wanted to
10	make sure it was.
11	PRESIDING OFFICER SCOTT: I think we're
12	going to need to move on.
13	MR. LEVESQUE: Okay. Thank you.
14	MS. LINOWES: Thank you Mr. Chairman. I'm
15	all set. Thank you.
16	PRESIDING OFFICER SCOTT: Mr. Ward?
17	MR. WARD: No questions.
18	PRESIDING OFFICER SCOTT: Again, I don't
19	see anybody from the Stoddard Conservation
20	Commission. Mr. Block?
21	CROSS-EXAMINATION
22	BY MR. BLOCK:
23	Q Yes. Thank you. Mr. Levesque, your Prefiled
24	Testimony states, quote, "I was the appointed

	chair of the Antrim Open Space Committee that
	completed its work in 2006," unquote. Can you
	briefly describe what that work of the Committee
	was?
A	So early in 2005, I don't recall the month
	although I know it was in the winter so probably
	it was January or February, the Selectmen in
	town and I, again, Selectmen Genest was part of
	that body, I can't remember the other two
	Selectmen at the time, asked me to chair an Open
	Space Committee. The Conservation Commission
	had for whatever reason chosen not to develop an
	open space plan for the town, and the Selectmen
	felt that it would add value to the existing
	master plan, and they asked me if I'd be willing
	to chair a Committee to develop an open space
	conservation plan for Antrim, and as part of
	that they asked me to suggest some names of
	individuals who might serve on the Committee,
	and they essentially appointed a Committee and
	we worked all during 2005 and what we did was we
	developed essentially a natural resource
	inventory or assessment of the whole town using
	GIS technology and public information data sets
	A

1	that were available. We pulled together some
2	draft sets of maps and as a starting point and
3	then we began to encourage the public to
4	participate in the process by holding a number
5	of public meetings. We did a survey of citizens
б	in town. We encouraged them to react to some
7	maps, and I remember Town Meeting that year
8	which would have been March of 2005 we had a map
9	that was both up during the voting portion and
10	then during the actual town meeting during that
11	week where we asked people to identify areas
12	that were of special natural resource value to
13	them in Antrim, and to write something about
14	that on a map, and so we came away with that,
15	with all kinds of special places people
16	identified like Willard Pond and like Gregg Lake
17	and whole bunch of other places in town that
18	helped to inform the Committee about where to
19	take the work following that.
20	So from all of that information we then
21	developed a plan that was a draft plan that in
22	fact had some recommendations that came directly
23	out of what we heard from citizens in town
24	during that year which included, again, some

recommendations on which areas citizens 1 2 considered important to protect from a land 3 conservation perspective to protect permanently, 4 and that went into a draft plan in the fall, and 5 then we held a public hearing around the draft 6 plan to get reaction to it and then the 7 Committee itself adopted it, and then we sent it 8 to the Selectmen because they had appointed the 9 committee. We sent it to the Selectmen as our 10 report of that. The Selectmen and I'm pretty 11 sure Eric Kenny was one of the other selectmen 12 because he suggested at a meeting that, in fact, 13 the Selectmen accepted report and he suggested 14 and the other Selectmen agreed that we should 15 bring it to town meeting to see if the town 16 meeting had an opinion about the report since, 17 obviously, as these things go only some people 18 in town participated in the process. We brought 19 it to town meeting and as I said before. It was 20 adopted at town meeting on voice vote. 21 Q So what role does that report now play in the 22 overall master plan of Antrim? 23 Α It is part of the master plan. It was adopted

24

as part of master plan, but just remember master

1		plans are developed by planning boards or
2		committees of planning boards. They're put out
3		for hearing, but in the end master plans are
4		adopted by planning boards, not by town meeting.
5		So the open space component of it was the only
6		portion of the master plan that was actually
7		adopted by full town meeting so really kind of
8		has the force of law a little different than
9		what master plans are.
10	Q	So what were the conclusions arrived at in this
11		report regarding the specific recommendations to
12		the area on and surrounding the Tuttle
13		Hill/Willard Mountain range?
13 14	A	Hill/Willard Mountain range? So as we surveyed people and as people brought
	A	
14	A	So as we surveyed people and as people brought
14 15	A	So as we surveyed people and as people brought to us their opinions about what was special
14 15 16	A	So as we surveyed people and as people brought to us their opinions about what was special about town, essentially the whole of the western
14 15 16 17	A	So as we surveyed people and as people brought to us their opinions about what was special about town, essentially the whole of the western part of town that is undeveloped which really
14 15 16 17 18	A	So as we surveyed people and as people brought to us their opinions about what was special about town, essentially the whole of the western part of town that is undeveloped which really starts kind of at the base of the ridge that
14 15 16 17 18 19	A	So as we surveyed people and as people brought to us their opinions about what was special about town, essentially the whole of the western part of town that is undeveloped which really starts kind of at the base of the ridge that we're talking about for the proposal here before
14 15 16 17 18 19 20	A	So as we surveyed people and as people brought to us their opinions about what was special about town, essentially the whole of the western part of town that is undeveloped which really starts kind of at the base of the ridge that we're talking about for the proposal here before the SEC and then goes west from there to the
14 15 16 17 18 19 20 21	A	So as we surveyed people and as people brought to us their opinions about what was special about town, essentially the whole of the western part of town that is undeveloped which really starts kind of at the base of the ridge that we're talking about for the proposal here before the SEC and then goes west from there to the boundary of Hancock, west and south from there,

1		area was a real special asset in the town. So
2		the plan itself recommends that that part of
3		town be permanently protected, if possible.
4		Again, remember, and it's been said here many
5		times by the Applicants, a good portion of that
6		part of town is already protected, the area that
7		immediately surrounds Willard Pond, but a good
8		portion is still privately owned and not
9		protected. So it really was looking at a whole
10		area as a region building on the existing
11		protected land that is in and around Willard
12		Pond and beyond that and looking at the land
13		that isn't protected but that is privately owned
14		and still controlled by those private land
15		owners as it should be, but it really identified
16		that as the priority for land conservation in
17		town.
18	Q	So are these recommendations still a valid
19		component of the Antrim master plan?
20	A	They are part of the current 2010 adopted master
21		plan.
22	Q	The Antrim Selectmen and others have stated that
23		they believe that the 2011 and 2012 Antrim
24		zoning amendment votes would have been too
	1	

A That's what they said.
Q Would the zoning ordinance as it stands today

recollection?

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4 5 permit AWE's project? 6 It would have to go through the Zoning Board to Α 7 get a variance, and that's a fairly high bar for any development to go through and be granted a 8 9 variance before to come back to the Planning Board for site plan review. So, you know, my 10 11 professional judgment is that it would never, it 12 wouldn't be possible under local zoning because 13 of that. 14 Do you recall what the Selectmen said was their Q 15 recourse since the existing zoning is too 16 restrictive and they wanted to see this project 17 built? 18 They basically said that we should go to the А 19 SEC, the town should go to the SEC to bypass 20 local zoning. If a restrictive ordinance had passed in 2011 or 21 Q 22 2012, could the Board of Selectmen have taken the same course of action in order to try and 23 override that ordinance? 24 NORTH COUNTRY COURT REPORTERS West Lebanon, New Hampshire 03784 northcountrycr@gmail.com (603) 443-1157

restrictive to allow AWE's project; is this your

not the question before the Committee. We're reviewing this project under the 162-H:16 criteria and the SEC rules, and those rules require reconsideration of the views of immune governing boards and planning officials. This is not such an official, and whether it complies with zoning, the whole purpose of the committee is to take this out of the zoning world and into the 162-H criteria.

MR. BLOCK: Part of my argument all along has been how well does this project fit in with the overall plans and desires of the citizens of Antrim. This was my last question. I could go either way with it.

19 PRESIDING OFFICER SCOTT: Proceed. Go why20 don't you go ahead.

Q So if a restrictive ordinance had passed in 2011 or 2012, could the Board of Selectmen have taken the same course of action in order to override that ordinance?

question, and the reason is, whether this

project complies with zoning or how it might

move through the local zoning process is really

MR. RICHARDSON:

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I'd like to object to this

They could have. 1 Α Yes. 2 Thank you. I'm done. 0 Ms. Berwick? 3 PRESIDING OFFICER SCOTT: 4 CROSS-EXAMINATION 5 BY MS. BERWICK: 6 Thank you. Mr. Robertson and Mr. Genest have 0 7 been reelected as the Committee noted, but it is 8 my understanding that both were elected in races 9 that had three people running and that more 10 people actually voted against them than for 11 them; is that correct? 12 That's what I recall. There were a number of А 13 races, and, you know, in recent years, in fact 14 most of the Selectmen races had at least three 15 in them so it was possible to get elected with 16 less than a plurality, and I believe that was 17 the case in both of their situations. 18 Thank you. Mr. Raphael stated that Willard Pond 0 19 conservation area is not considered that 20 important to the town by the Town Plan because 21 it was not specifically listed and if it was 22 specifically listed it would elevate its value 23 in its report which would elevate the numbers 24 that he used to give of importance which would

1		end up making it potentially have a higher
2		impact. Can you tell me what is specifically
3		listed in our Town Plan?
4		MR. NEEDLEMAN: Mr. Chair, I'm going to
5		object to that characterization of Mr. Raphael's
6		testimony.
7		MS. BERWICK: He did state that there was
8		not specifically listed, and he actually went on
9		quite a bit about things that had to be
10		specifically listed.
11		PRESIDING OFFICER SCOTT: We don't have the
12		transcript here, but you could probably just ask
13		the same question without the preamble.
14		MS. BERWICK: Okay.
15	Q	Can you tell me what is specifically listed of
16		value in the Town Plan?
17	A	I can bring it up. It's going to take me a few
18		minutes if you want me to do that, but just for
19		the Committee, if you remember, when I
20		cross-examined Mr. Raphael, we talked about this
21		very issue, and we had a back and forth around
22		that section of master plan that actually did
23		list, along with other water bodies in town,
24		Willard Pond as a valued scenic resource.

1		So I think it's in the record and that's
2		what the the plan says. It just didn't do it in
3		the way that he wanted it to do it. But it
4		certainly did it because there was a preamble
5		paragraph and then a list and that preamble
6		paragraph says that it's a valued scenic
7		resource so I think it does do that. In fact, I
8		know it does do that.
9	Q	Okay. Thank you. Can you provide any details
10		regarding the 2014 vote in which the citizens of
11		Antrim turned down Antrim Wind Energy's efforts
12		to put through a zoning change?
13	A	The 2014 vote?
	A Q	
13		The 2014 vote?
13 14	Q	The 2014 vote? Yes.
13 14 15	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals
13 14 15 16	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning
13 14 15 16 17	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning Board. We had a Committee that worked on the
13 14 15 16 17 18	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning Board. We had a Committee that worked on the first one, and then we updated it for a second
13 14 15 16 17 18 19	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning Board. We had a Committee that worked on the first one, and then we updated it for a second vote, and this third one as has been stated in
13 14 15 16 17 18 19 20	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning Board. We had a Committee that worked on the first one, and then we updated it for a second vote, and this third one as has been stated in this docket was put forth by the Applicant and
13 14 15 16 17 18 19 20 21	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning Board. We had a Committee that worked on the first one, and then we updated it for a second vote, and this third one as has been stated in this docket was put forth by the Applicant and was signed, I think it was a petition, citizen's
13 14 15 16 17 18 19 20 21 21 22	Q	The 2014 vote? Yes. Yes. So this was after we had two proposals that were put before the voters by the Planning Board. We had a Committee that worked on the first one, and then we updated it for a second vote, and this third one as has been stated in this docket was put forth by the Applicant and was signed, I think it was a petition, citizen's petition to change the zoning ordinance which is

1	As part of that process, and I was still on
2	the Planning Board at the time, the Planning
3	Board must by law hold a public hearing about
4	citizen petition zoning ordinance changes, and
5	we, in fact, did that, and that hearing was well
б	attended. My estimate, I remember we were in
7	the upper Town Hall, and so there were certainly
8	80 people if not 100 present, and I do remember
9	it because since none of the members of the
10	Planning Board were involved in developing that
11	proposal, the Chair, I was the Vice Chair at the
12	time, the Chair asked the group of folks in
13	attendance if anybody wanted to speak to the
14	proposal. Since we hadn't developmented it, we
15	couldn't speak to it. We don't know what was in
16	it. We don't know why what was it in it was in
17	is, and we asked if one of citizens who had
18	signed the petition wanted to present it
19	essentially to the hearing so that people could
20	then ask questions about it, and not a single
21	person stood up to, in fact, speak to it.
22	So it told me, at least, that this was
23	something, and I think the Applicant has said in
24	this docket that, in fact, they developed it

1		based on the agreement they had with the
2		Selectmen, but that the citizens involved really
3		had no knowledge about what was in it, and yet
4		they signed their name to a Petition to put it
5		on the ballot, and so that ballot obviously did
б		not pass.
7	Q	Thank you. As a public official, are you aware
8		of citizens who changed their original position
9		regarding Antrim Wind Energy perhaps favoring
10		the wind energy project in the past but are now
11		opposed?
12	A	First off, I am no longer a public official in
13		Antrim.
14	Q	I'm sorry.
15	A	I brought materials forth that suggest that I
16		am, but I did that because the Planning Board
17		chose not to be here, and the Selectmen did not
18		bring these materials forward; that being the
19		master plan, open space conservation plan, the
20		zoning. If I had not come forward to be an
21		Intervenor, these materials would not be as part
22		of the record, and it really needed to be, but
23		I'm not a public official. Do I know people who
24		changed their mind from early on to now? Yes, I

1		do.
2	Q	Have you heard any reasons behind such changes
3		of position?
4	A	Well, a few people I'm thinking about off the
5		top of my head are supporters of renewable
6		energy as I am and as are many people in town,
7		and early on the notion of supporting renewable
8		energy locally was attractive to them until they
9		found out the size of the project and where it
10		was going to be located. So the two people that
11		I'm thinking of off the top of my head after
12		they looked at maps and understood where it was
13		being proposed for then changed their mind. One
14		of them specifically said to me that the issue
15		for her was what it would do to the viewscape at
16		Willard Pond, but, again, that's a couple of
17		people, it's anecdotal. There are many people
18		that probably have a different opinion today
19		than they did before.
20	Q	Right. Did you know that there was presented at
21		these hearing the change in the contract between
22		the Town of Antrim and Antrim Wind Energy?
23	А	Yes.
24	Q	Is it allowed by our town for Selectmen and the

1		town's lawyer to write a change in a contract
2		without public input?
3	A	You know, I'm probably the wrong person. I'll
4		probably agree with the Applicant's attorney.
5		I'm probably the wrong person to answer that.
6	Q	Is the Antrim Conservation Commission in favor
7		of this project?
8	А	I do not know. I'm not a member of the Antrim
9		Conservation Commission.
10	Q	Okay. On $9/24$, the SEC received a letter from
11		Marshal Gail and Sara Gorman in which he asked
12		the committee to deny the Antrim Wind Energy
13		permit. Is Marshal Gail the Town of Antrim's
14		Fire Chief?
15	A	Yes, he is.
16	Q	We have heard threats of a major development
17		happening on the land that will be eventually
18		put into some sort of conservation if Antrim
19		Wind Energy project does not go through. Do you
20		have any insight into exactly what type of
21		development could happen in that area and the
22		likelihood of that happening considering the
23		physical limitations of that property?
24	A	I will say that answering this would be

speculation. I suspect counsel for the 1 2 Applicant might object. I just will say that a 3 number of folks have spoken to that during this 4 docket and suggested that massive development 5 could happen on the same land, but we have slope 6 requirements in the zoning ordinances, a bunch 7 of stuff in there that would really limit the kind of residential or other development that 8 9 could happen in that area. So could something 10 be developed there? The reality is, you know, 11 the kind of development that might happen which 12 would be mostly residential would be very, very 13 expensive development. We have a development in 14 town, and I believe the Selectmen are well aware of this, but that it's been, I think it's taken 15 16 back by the bank. It has a paved road on it. It's right off of 202, and I don't believe 17 18 anything has happened. That development was 19 approved probably ten years ago, and that's a 20 much more desirable area for development than up 21 on a ridgetop. So while something could, could 22 something legally be built on this ridgetop in the way of a residential or other development as 23 24 allowed by the zoning? Legally, it could. I'd

1		say in the current market and the market in the
2		foreseeable future, it just wouldn't happen.
3		There isn't going to and market for that given
4		the other kinds of developments in much more
5		highly developmentable areas in town that aren't
6		selling.
7	Q	During these proceedings you made a statement
8		that I made a note about, and I could have
9		written down incorrectly, but my note says that
10		100 acres that Antrim Wind Energy is using does,
11		100 acres of, that there are 100 acres that
12		Antrim Wind Energy is using that will not go
13		into conservation and can be developed. Did I
14		get that right? And if I did, could you explain
15		that?
16	А	Well, I mean, I think it's building on some

16 А I mean, I think it's building on some 17 other things that were said about the private 18 landowners who own the land on which the leases 19 have been agreed to that would allow this to be 20 built. With some of the conservation easements 21 that are being proposed should they be built, 22 some of those landowners retain substantial 23 development rights after the, should the project be built and dismantled after 50 years as the 24

1	conservation easements require, the landowners,
2	it's not like it extinguishes all the
3	development potential on those lands after the
4	wind farm is taken down. Some of those
5	landowners in those conservation easements
6	retain substantial development rights. Mr. Ott,
7	for one, who can build a house up on the top of
8	the ridge, and so, you know, it's not like when
9	and if this is built and when and if it's
10	dismantled after 50 years that this will be the
11	way it is today. That's just not going to be
12	the case.
13	Q Okay. Thank you very much.
14	PRESIDING OFFICER SCOTT: Mr. Newsom, does
15	the Harris Center have anything?
16	MR. NEWSOM: No questions.
17	PRESIDING OFFICER SCOTT: Counsel for the
18	Public?
19	CROSS-EXAMINATION
20	BY MS. MALONEY:
21	Q I'm going to try to make it quick because some
22	of this has been already touched on, but I just
23	wanted to ask, I'm looking at a couple sections
24	of the master plan. I'm looking at the water

1 resources section. Do you recognize the 2 sections of the master plan? 3 Α Yes, I can pull it up. It will take me a second 4 here. Well, I just have a couple quick questions based 5 0 6 on your recollection. 7 Α I've got it up. What page are you on? 8 I was just looking at the water resources 0 9 section, and I think, I don't know what exhibit that is. 10 11 This is LA-5. А 12 MR. IAOCOPINO: Ms. Maloney, do you have a 13 PDF page? Top of your screen, left. 14 MS. MALONEY: I don't see it. 15 It's there for sure in the PDF version. А T'm 16 looking for it now. 17 It's just a real quick question. If he recalled Q 18 that under the section "other water resources" 19 that the master plan indicated that like the two 20 major rivers in town, Antrim's lakes, ponds and 21 streams are important water, recreational and 22 scenic resources. Do you recall that as being 23 part of the plan? 24 Yes, I do. Α

Yes.					
And then on the other section of the master plan					
under Natural Resources?					
Yes.					
That there is some discussion about how to					
balance open space with development. Do you					
recall that as part of that section?					
Yes, I do.					
But they talk about areas that they need to					
preserve from development and they indicate that					
the purpose of the chapter is to identify Antrim					

14 tify Antrim t 15 Natural Resources and proposed conservation 16 efforts to preserve other critical areas?

17 А Yes.

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Q

Pond?

- 18 And among the areas they identify in that is the 0 19 O2C conservation collaborative?
- 20 Α That's correct.
- 21 Q And also the dePierrefeu Wildlife Sanctuary?
- 22 Α Yes.
- And another trail, Meadow Marsh, that's well 23 0 24 known in town?

Franklin Pierce Lake, Gregg Lake and Willard

And among the ponds and lakes listed are

1	A	Yes.
2	Q	That's all I have.
3		PRESIDING OFFICER SCOTT: I think we're up,
4		Mr. Richardson is next.
5		CROSS-EXAMINATION
6	BY I	MR. RICHARDSON:
7	Q	Mr. Levesque, do you have any experience as an
8		appraiser? Are you a certified appraiser?
9	A	I am not.
10	Q	Have you ever acted as an official, as an
11		official assessor?
12	A	I have not.
13	Q	And you've never been a member of the Board of
14		Selectmen responsible for assessing properties
15		in any of the towns you've lived in?
16	A	I have not. However, I am a licensed forester
17		and a lot of the work that foresters do really
18		starts with land. If we start out with a new
19		landowner, we're always looking at valuation
20		associated with that land, and so while I have
21		some training about that as part of my forestry
22		degree, it's something that as a forester we
23		work with every time we work with a landowner.
24		We're always looking at assessments, valuation
4 1		we is always rooking at assessments, varuation

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1		and I coordinated recently an appraisal, worked
2		with the appraisal for a property in Goffstown,
3		for example. That's something that foresters do
4		often so we're integrally involved in
5		assessments and appraisals even though we're not
6		appraisers or Assessors per se.
7	Q	Of forested land. But that wouldn't include the
8		appraisal or assessment of wind energy
9		facilities.
10	A	Well, actually, our company, and, again, I'm
11		here as an individual, not representing my
12		company
13	Q	Right. So let's focus on your experience.
14	A	Well, it is my experience as a professional.
15		You went there. So I will go there as well. We
16		have had many opportunities to work with
17		landowners who are interested in developing wind
18		farms on their property, and so we've worked for
19		probably a half dozen over the last ten years,
20		and we work on those projects from the
21		landowner's side of things so it's really from
22		the land use side, not from the technical
23		development side of things, and it often
24		involves appraisals, it often involves valuation

and looking at land before a proposed wind project comes forward.

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And so as a company, we've been involved in a number of those projects as part of the work that we do in renewable energy generally because we've, obviously, our expertise is focused much more on biomass energy, but we've done considerable amount of work on wind farms in that capacity and also on large scale solar generation as well. Usually looking at it from the land side of things.

12 Q You've testified in court and in hearings13 before, right?

14 A Yes.

15 Okay. So what I would like to do is have this 0 16 discussion with you, and I'd like to ask the questions fairly specifically. If you're not 17 18 able to answer them, that's okay. So what I'm really trying to get at is not the valuation of 19 20 the forest land that would be used for a wind 21 project, but the valuation of the wind project 22 itself, and it sounds from your answer that your 23 firm hasn't done any appraisals or assessments 24 of what the value of a wind project is in its

1		fair market value if someone were to buy it.
2	А	Well, actually we have. Directly, we worked
3		with an appraiser associated with a wind farm in
4		New England that I will not name because it's a
5		proprietary arrangement that our company has had
6		with them, and they were having issues with the
7		communities relative to the appraisal that was
8		being done. Those were appraised at, this
9		particular wind farm was being appraised at ad
10		valorem value, and we were asked to come in to
11		work with an appraiser to determine whether or
12		not the assessments that were being used on the
13		wind farm, and you know this better than I do,
14		all wind farms go into these discussions and
15		there are disagreements all the time. To help
16		the appraiser in looking at land values and in
17		looking at the valuation of this particular site
18		for that wind farm. So the appraiser had the
19		specific expertise around the built-in
20		infrastructure of the wind farm, but it also
21		involved the associated land, some of which was
22		forested, some of which had been cleared for the
23		wind farm. So we were integrally involved in
24		that particular situation.

0 testimony, and you do recall me actually asking you about a letter you had written to the Monadnock Ledger in which you stated that --Α Is this in my testimony somewhere? I don't recall that. Q This is during the technical session. I asked

Okav. All right. Let me turn to your

wind energy facility or structure?

you why you had written a letter to the Monadnock Ledger which said that the Antrim PILOT agreement was giving away 4 to \$5 million?

And your firm hired an appraiser because you

valuation of the project components, the

physical structures.

didn't have the expertise on the assessment or

hired the appraiser and hired us as a separate

Has your firm ever prepared an appraisal of a

We are not appraisers. I said that in the first

Okay. So you know there's three approaches to

That's not correct. The landowner itself

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Q

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No.

consultant.

sentence.

valuation.

I'm familiar with that.

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23

1	А	Yes.
2	Q	Do you remember saying that you weren't sure but
	Q	
3		that may have been a figure that or letter that
4		you wrote on your cell phone?
5	А	If that's what I said, I may have said that,
6		yes, because it's possible that I in fact did do
7		that, but I don't recall.
8	Q	So do you have your testimony in front of you?
9	А	I do, yes. Send me to a page and I'll go there.
10	Q	Why don't you look at PDF page 46 which is your
11		testimony on page 8, and
12		MR. IACOPINO: Which page, Mr. Richardson?
13	А	My testimony goes to page 29.
14	Q	The way it's organized on the website is
15		Mr. Wells' and Mr. Levesque's testimony is
16		combined into the same PDF file so it's page 8
17		on the document, but if you look, if you open
18		the PDF you have to skip beyond Mr. Wells'
19		testimony to PDF page 46.
20	А	I don't know why that was done that way. I'm on
21		numbered page 8 of my testimony.
22		MR. IACOPINO: That would be 8 on the PDF,
23		what I passed around as just his testimony.
24	А	Yes.

Which line? 1 MR. IACOPINO: 2 It's the paragraph that begins, I don't have the 0 3 question in front. You were asked to describe 4 what would happen under this project, and you 5 say yes, the projection for property taxes is if 6 there were no PILOT agreement signed the Town of 7 Antrim would receive approximately 19 million in 8 property taxes, tax revenue, over the 20-year 9 life of the project while with the PILOT in 10 place the projected property tax revenue would 11 be 14,200,000. 12 Α That's actually on page 6 of the PDF. 13 0 Okay. 14 And my addendum or supplemental that I Α Yes. 15 handed out at the beginning of when I was sworn 16 in, in fact, corrects those numbers. That one 17 pager that got handed out, that's in fact the 18 answer that was corrected. 19 Q So then the four to five million in the 20 Monadnock Ledger was wrong? 21 Α No. That's not correct. 22 0 Okay. 23 So the four to five million was talking about Α 24 the lost revenue from using a PILOT compared to

1		having the project assessed at ad valorem value
2		and this new LA 15 which was again correcting
3		the answer to that question that you referenced,
4		in fact, is the result of the additional new run
5		of the model that I created, and the answer is
б		\$5.151 million as the differential between ad
7		valorem taxation over the 20-year period and the
8		PILOT over the 20-year period so that's really
9		consistent with what I said in the Monadnock
10		Ledger.
11	Q	So what you say in your testimony, though, is if
12		you look at this you take the 19
13	А	Again, that's been replaced with this new so
14		that's no longer relevant. This is the new
15		testimony. It replaced that.
16	Q	I'd like to ask the question, if I may, and then
17		we can, if there's objections, we can let the
18		Committee decide if it's relevant or not. So
19		let's start with the 19.9.
20	А	Mr. Chairman, those numbers are no longer
21		relevant. That's why I handed this out and
22		so
23		PRESIDING OFFICER SCOTT: Let's let him ask
24		the question first and see where he's going with

	this.
0	You take the 19.9 figure and then you subtract
×	
	the 14.2, and is that the source of the \$5
	million figure that you referenced in the
	Monadnock Ledger in the amount of tax revenue
	that was being given away?
A	No. It's on this new run that is part of the
	addendum that was handed out at the beginning of
	my testimony.
Q	Okay. But you were trying to describe the
	discrepancy between what would be received on an
	ad valorem basis versus what was received under
	the PILOT agreement in this paragraph, right?
A	That may be in fact received over the life of
	the project, yes.
Q	Okay. And that, that was approximately \$5
	million there, and now it's been updated.
A	Correct.
Q	Okay. So I want to ask you about that because
	now, so you're saying today that the ad valorem
	number, and we'll get back to that, is 19.8
	million.
A	If you're looking on LA 15, yes. Over the life
	of the project. But, remember, that's a gross
	Q A Q A

So to get the difference that the town 1 number. 2 is losing as a result of the PILOT should the 3 project be built you have to take the growth 4 from the PILOT, subtract the actual additional 5 taxes, our tax liability associated with that 6 approach, and then do the same with the ad 7 valorem to come up with the net for each of those approaches and then subtract those two. 8 9 Understand. We've got a lot of numbers to work 0 10 through so let me ask the questions, and we'll 11 focus on those answers and we can do redirect 12 later if we need to.

13 So the source of the 19.8, I believe that 14 was also a question that was raised at the 15 technical session. I heard you say in response 16 to questions earlier today that the starting 17 point was about the \$65 million construction 18 Is that correct? Is that what I heard cost. 19 you say? 20 So the counsel for the Applicant during the Α

20 A so the counsel for the Applicant during the 21 technical session asked to obtain a copy of the 22 model that I created to come up with these 23 numbers, and I did not agree to give it because 24 it's proprietary, a proprietary model of my

		WITNESS - LEVESQUE
1		company which again is separate in from this
2		company docket and my role here.
3		But as part of that, counsel asked for or
4		at least I said I would provide a narrative
5		description of how the model works, and I did
6		that, and I have it here as another exhibit, and
7		it may be valuable for the Committee if you want
8		me to hand it out. It's a little more
9		complicated than just saying you used the 65
10		million, and I've explained in that narrative
11		how the model works, but, yes, one of the many
12		inputs into the model is the assessed value in
13		Antrim over the life of the project and it
14		includes the assessed value, townwide, which
15		includes a project that starts out as an
16		additional \$65 million worth of valuation, and
17		it changes over time. So that's one of the many
18		inputs into the model.
19	Q	Right. So it starts at that value. So let's
20		assume the project's built this year, and the
21		tax rate is approximately \$28 per thousand.
22	A	Okay.
23	Q	Is that your understanding of what the town's
24		tax rate is?

1	A	Could be. Something like that. I don't have it
2		before me.
3	Q	So you don't know what the tax rate is.
4	A	Off the top of my head, I do not.
5	Q	Isn't that a pretty important thing to know if
6		you're going to be giving testimony about how
7		much tax revenue they should be collecting?
8	A	It's all in the model.
9	Q	It's all in the model. And we don't have the
10		model.
11	A	That's right. I've explained how it works in
12		the narrative, and I'd be glad to hand that out
13		here. Again, it was a response we made to the
14		technical session.
15	Q	So let me start with this then. Let's look at a
16		value in year 1 of \$65 million, and we apply a
17		tax rate of \$28 per thousand, and we multiply
18		that by those two figures together we get
19		approximately 1.8 million. Does that sound
20		about right, subject to check?
21	А	Again, this model is much more complex than
22		you're describing there, and I've described it
23		with a narrative here and I'd be glad to hand it
24		out so that people can actually understand the

1		full process.
2	Q	I'm not trying to go through all the components
3		of the model because I think we could spend all
4		day doing that. What I'd look to do is figure
5		out what we're doing in year 1 and what the
6		assumptions are. So if we start with a value of
7		\$65 million in year 1 which I believe is what
8		you used, and we apply the tax rate to it?
9	А	Apply the tax rate to the entire assessed value
10		which includes the current assessed value plus
11		65 million.
12	Q	Okay. So 65, let's just look at the \$65 million
13		for the project. We'll apply the tax rate.
14		That's approximately \$1.8 million in property
15		taxes on that \$65 million in value.
16	А	In year 1?
17	Q	Yes.
18	A	Could be. Again, I don't have my calculator
19		out. Something like that.
20	Q	And that's why I said subject to check. I've
21		done the math. I'm not a mathematician, but I
22		believe that's right. So that's 1.8 million.
23		That's about 5.6 times what the PILOT agreement
24		provides which is 324,000 in year 1. Does that

1		sound right to you?
2	A	Could be but that's a gross figure. You're not
3		talking about a net number, right? So the
4		actual benefit to the community is not the gross
5		which is that simple math that you just
6		described. That comes up with a gross revenue
7		for the community, and then you have to
8		determine how much additional liability the Town
9		of Antrim would have through the ConVal School
10		District and the Hillsborough County tax.
11	Q	Right.
12	A	So until you do that, that number is kind of
13		meaningless because it's just a gross number and
14		you've got to subtract those other liabilities.
15	Q	Do you think it's fair to assume that when the
16		town sends a tax bill for a facility, and it's
17		apportioned between county taxes, between some
18		state taxes, between local taxes and school
19		taxes, all of those taxes are really a public
20		benefit.
21	A	Are a public benefit?
22	Q	That's right. They help fund school services,
23		municipal services, county services. Those are
24		all things that are being provided by taxes paid
		I I I I I I I I I I I I I I I I I I I

	i	
1		by Antrim Wind.
2	A	Those are things that could be paid by taxes,
3		yes.
4	Q	So let's look at this at a gross level and set
5		aside the question of where does the money go
6		because that is an entirely separate procedure.
7		But if we are to, and I guess what I'd like to
8		do because I don't have a copy in front of me,
9		but you referred to House Bill 217. And are you
10		referring to the bill that changes the way that
11		property taxes are equalized by the Department
12		of Revenue?
13	A	Yes.
14	Q	And that was the problem that happened in
15		Lempster with the Goshen/Lempster Cooperative
16		School District?
17	A	I don't know if it was a problem there, but
18		that's the bill.
19	Q	Okay. And so that would be, I think that's, if
20		we look at Antrim Exhibit 2 which was Everett
21		Thurber's testimony, and we go to Exhibit 2
22		attached to that testimony, you see there's a
23	A	I don't have that before me. So if you want me
24		to look at it, it's going to take me a bit to

1		find it.
2	Q	I won't ask you to find it actually. I'm
3		explaining it so that the Committee members can
4		find it, and I'll just bring you the copy that's
5		on my laptop if I can.
6		PRESIDING OFFICER SCOTT: Off the record.
7		(Discussion held off the record)
8		PRESIDING OFFICER SCOTT: Back on the
9		record.
10	Q	So what I'd like to do is you have in front of
11		you Antrim Exhibit 2 which is Everett Thurber's
12		testimony, and then Exhibit 2 to that document.
13		On the first page of that law, chapter 277, I
14		think, is the laws of 2013, you see where it
15		says amend, RSA, under II, amend RSA 72:74, II,
16		and it says the payment in lieu of taxes shall
17		be equalized under RSA 21-J:3, III, in the same
18		manner.
19	A	Yes, I see that.
20	Q	So that's the law that you were referring to
21		earlier where there was a change in the
22		procedure for how PILOT agreements were dealt
23		with.
24	A	Yes.

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1	Q	And that refers to the paragraph above which
2		talks about equalized value which is section 1
3		at the top of that page. So if we take the
4		town's tax rate, I believe last year it was
5		just, it was 27 and change. This year it's
6		going to be about the same as I understand. So
7		we round that up to 28 which is the closest
8		number. Or 27.74, excuse me, from last year.
9		Then we multiply that by \$28 per thousand, we
10		get that figure of 0.028. We take the revenues
11		under the PILOT agreement which are 324,000,
12		right?
13	А	If you say so.
14	Q	So if we divide the PILOT revenues by the tax
15		rate, that produces a value of \$11,571,428 in
16		year one.
17	А	Okay.
18	Q	So that's the value that this law is asking the
19		Commissioner of Revenue to equalize in order to
20		determine the level of tax payments, isn't it?
21		Isn't that how the process works?
22	A	Again, you've taken a lot of time to look
23		through this. I haven't looked at this, at this
24		bill for probably six months so I'll take your

1		word for it.
2	Q	Okay. But that's not the value of 14 million
3	×	that's in your testimony or in the value in the
4		exhibit that you've just handed out.
5	А	What number are you talking about? The
6		assessment?
7	Q	Yes, that's right. Because when we look at the
8		PILOT agreement and it's \$325,000, and we apply
9		the tax rate to that, we come up with a value of
10		11.5 million. That's what is being used as the
11		value for this facility. It's not the 19
12		million, it's not any other number I've seen in
13		your testimony.
14	А	Okay. If that's the case, and I think I know
15		where you're going with it, I have to spend some
16		time with the numbers. If that's the case, then
17		the differential between the ad valorem versus
18		the PILOT over the 20-year period would be even
19		greater than five million, if in fact that's the
20		case. I don't know if it is. I've have to
21		spend some time with it, but if that number is
22		less than my assumptions in here, which, again,
23		we're just shy of \$20,000,000, for whatever
24		reason that's what they are in the model, then

WITNESS	-	LEVESQUE	

1		the differential would be much higher than five
2		million so the town would be losing more than
3		five million over the 20-year period.
4	Q	Oh, I agree, and if we were to go an initial
5		value of 65 million which, I think, is what you
6		plugged in in the first year in your model, we'd
7		be collecting 5.6 times as much as we would be
8		with the 324,000 under the PILOT agreement. So
9		that's a huge disparity.
10	A	Yes, it is.
11	Q	And you valued, I mean you've looked at
12		operating pro formas of wood-fired generating
13		facilities, and you have to agree with me that
14		increasing the taxes by a factor of five and a
15		half would pretty much kill the project.
16	А	I don't know that to be the case. These
17		projects are built all over the place with ad
18		valorem taxation so that statement probably is
19		not true. My purpose of even doing this model
20		is very simple, and that is because the
21		Selectmen are really supposed to be representing
22		the interests of the taxpayers in Antrim, and
23		they made a decision that's going to cost the
24		taxpayer, should this project be built, and

1		beyond me why the Selectmen didn't develop any
2		of their own model runs so that they could know
3		the cost of that decision that they were going
4		to make back when they made it a number of years
5		ago. The whole purpose of this is to try to
6		quantify the decision that they made, and it
7		appears to me and this is, I'm not hearing
8		anything to the contrary, that, in fact, they
9		never had any estimate whatsoever of the
10		valuation that they were giving away by signing
11		the PILOT which really is not representing the
12		interests of the taxpayers of Antrim. So
13		regardless of the numbers, whether that 11
14		million is more correct than the 19 million of
15		the PILOT valuation, the fact is that they've
16		chosen to give away a lot of money and they
17		didn't even know how much.
18	Q	And let's focus on that, but you said something
19		when you kind of went off the rails a little bit
20		and off the topics of the questions I was asking
21		you, you weren't a member of the Board of
22		Selectmen, and they were represented by legal
23		counsel as you know because you brought a
24		lawsuit against them, so you don't know whether

1		legal counsel may have brought in a valuation
2		expert to look at this and look at whether or
3		not this is in the best interests of the town,
4		right?
5	А	So Mr. Richardson, during the whole process when
6		the PILOT was discussed at a number of public
7		hearings, I actually brought in an earlier
8		version of this model to the town of Antrim to
9		the Selectmen when they were discussing this
10		before they had made a decision, and I told them
11		what my estimates were at that time of what they
12		were giving away should they sign a PILOT that
13		they had yet to sign, and they totally ignored
14		that testimony.
15		So just, this is not the first time this
16		comes up. This has been around for a long, long
17		time, certainly well back to 2010 and 2011.
18	Q	Were those estimates wrong the way they were in
19		the Monadnock Ledger, in the way they were in
20		your testimony that you just updated today?
21	A	I don't know that. You believe they are, but I
22		don't know that you're correct.
23	Q	You just brought in a correction to your
24		testimony that has a different set of numbers in

1		it.
2	A	That's right. That's right. Because I
3		identified an incorrect run of the model, and I
4		reran it with better numbers that were more
5		accurate after the passage of this legislation
6		which is, again, House Bill 1549.
7	Q	So you just discussed something that I thought
8		was interesting, and that was the amount of
9		money that the town was giving away under this,
10		and that's your testimony, that this agreement
11		is going to result, it's going to cost the town
12		money because the town is going to be giving it
13		away. Is that what you're telling this
14		Committee?
15	А	The town is going to get less revenue should
16		this project be built under a PILOT than it
17		would under ad valorem.
18	Q	Are you aware that the town of Lempster, I think
19		you were there for Everett Thurber's testimony?
20	A	I was not.
21	Q	So would it surprise you that the town of
22		Lempster has assessed for Ad valorem purposes
23		that project at \$44 million?
24	А	Again, I wasn't there so I can't really answer

the question. 1 2 So you don't know. 0 3 Α I wasn't there when Mr. Thurber was here. 4 I guess my question was would it surprise Q Okay. 5 you? 6 Again, I can't answer that. I wasn't here. Α 7 0 Would it surprise you if the Iberdrola, the owner of the project, had filed a petition for 8 9 tax abatement claiming the values were 29 million? 10 11 Those kinds of things happen all the time. А Ι 12 don't know if they did that. I wasn't here when 13 Mr. Thurber was here, but those kinds of 14 discussions happen all the time. 15 And when they do, the town is required to issue 0 16 a tax abatement if it loses in a case. So if 17 Iberdrola were to prevail, the value would be 18 corrected to 29 million, right? That's how the 19 tax abatement process works. 20 If they lost. Α 21 Q Yes. 22 Ultimately, at whatever the Board of Tax and Α 23 Lands Appeals or Superior Court or whatever, 24 yes, the town could be liable.

2		interest penalty?
3	A	I don't know that, but certainly there's a
4		penalty.
5	Q	Okay. And when that happens, the payments that
6		are made to the county and to the school, the
7		town doesn't get any reduction back. In other
8		words, it's already paid based on a value of 44.
9		If the court were to determine the value was 29,
10		the money that's paid to the school is gone and
11		the town never gets it back.
12	А	So in my testimony I used the graph which is no

- 12 13 longer correct in its individual numbers that 14 created the graph.
- 15 I wasn't asking about the graph, sir. 0

16 Α It's relevant to the answer I need to give Yes. 17 So that shows that under an ad valorem to that. 18 scenario, whether it's the numbers I originally 19 used or the updated model, it shows that the property taxes are front-end loaded under ad 20 21 valorem because each year the assessed value 22 gets reduced on the project as depreciation 23 occurs on the project, and that's logical. Ιt 24 should be that way.

And that includes a payment of 6 percent

Q

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1		When the Selectmen were discussing this
2		back in whatever, 2010, 2011 in that period of
3		time, I had suggested to them that there's a
4		simple solution to the risk involved in going ad
5		valorem because of the inherent problems that
6		occur with assessment over time with large
7		projects like this, and that was that instead of
8		spending all the money up front when you get it
9		which is again, front-end loaded, they, in fact,
10		set it aside. They set aside a huge amount of
11		that so that when problems, if they should
12		occur, that require them to pay back with
13		penalty taxes that might have been lost if
14		assessments are overturned that they would have
15		resources to do that. They could have done that
16		and set aside millions of dollars and still come
17		out ahead for the taxpayers in Antrim. Again, I
18		suggested that many, many years ago, and it is a
19		way that other communities have dealt with the
20		front-end loaded nature of ad valorem versus a
21		PILOT which is virtually straight line.
22	Q	So then under that approach, we'd be setting a
23		value that would be about 5.6 times what it is
24		in a PILOT agreement and then trying to store it

1		in the bank account and not use it?
2	A	Some of it. As a way to hedge against risk.
3	Q	Okay. But the question that I asked you was
4		actually completely different. I was asking you
5		about the fact that, and to agree or disagree,
6		the payments that are made to the school and to
7		the county based upon a figure at the higher
8		level, the town never gets those back when it
9		issues an abatement. So the town is responsible
10		to refund the entire amount of tax overpayment
11		including school
12		MS. LINOWES: Mr. Chairman, I'm going to
13		raise an objection because by using Lempster as
14		an example of the scary threat of what happens
15		if you go ad valorem has been resolved in
16		Lempster so they have come to an agreement on
17		how they're going to do it. It's not a
18		repetitive problem. So the idea that this would
19		be a continuing problem where the town will be
20		sued year after year over the issue is just not
21		realistic. Obviously, the community is going to
22		come together with the developer and resolve any
23		problems.
24		PRESIDING OFFICER SCOTT: I believe

1	Mr. Richardson is using Lempster as an
2	illustrative example, but he's talking about
3	Antrim, I believe.
4	MS. LINOWES: That's true, and the reason
5	he's comparing what happened in Lempster because
б	of the lawsuit that happened in Lempster, but
7	Lempster ultimately came to the table with the
8	developer and resolved their issue.
9	PRESIDING OFFICER SCOTT: I don't think
10	that's in dispute here.
11	MR. RICHARDSON: It is actually in dispute.
12	They were served with a lawsuit on September
13	20th, and when I said that the claim is last
14	year they were assessed at 44 million, the
15	abatement's come in claiming they're now
16	assessed at 29, and I'm trying to point out that
17	that's a very significant risk for towns.
18	MS. LINOWES: And Mr. Thurber, when he was
19	on the witness stand, it was the day after he
20	was on the witness stand, he had said they were
21	going to sit down with the developer because
22	they had a multi-year agreement over a period of
23	time, and they were going to have to
24	renegotiate. So maybe this is just part of the

1		negotiation, but to say that it's going to be a
2		problem overall, I think these things tend to
3		work themselves out.
4		MR. IACOPINO: Mr. Chairman, if I can point
5		out, the question to the witness isn't about
6		Lempster. The question is about what happens if
7		there's an abatement in Antrim and what happens
8		to that money that gets paid. Do they get the
9		money back that they paid to the School
10		District. I understand that to be
11		Mr. Richardson's last question.
12		PRESIDING OFFICER SCOTT: Why don't you
13		press on, Mr. Richardson.
14		MR. RICHARDSON: Thank you.
15	A	Would you like your computer back?
16	Q	I should really get that back although what I'd
17		like to do is get my train of thought back.
18		MR. IACOPINO: Do you want to restate your
19		question to him?
20	Q	I'm fairly confident in the answer because it's
21		really a question of law, and there's a case out
22		of Berlin that addresses this very issue so I'm
23		not sure what the issue is there.
24		So let me ask you this because in your

10 0 And you weren't able to get to that until 11 yesterday?

12 I did this last week. Α No.

get to it.

13 Q Okay. So you received data requests about the 14 You didn't update those or notify the model. 15 parties that the answers you had provided might 16 not have been accurate or would need to be 17 changed?

18 Again, I ran out, we ran it recently and I'm А 19 providing it today.

20 The tax abatements, just to close the loop on 0 21 that, obviously, they can take a couple years to 22 get through the court process, right? 23 Α I'm not an attorney so I'll take your word for

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testimony that was filed on May 23rd, that's

where you ran your model, and now we have a

which we'll get to. But what took so long?

come we only saw the correction today?

correction to it today, and it's this new figure

I'm a volunteer. I'm not being paid to be here

and so I've gotten to, you know, the work that I

How

1	Q	Okay. So it's possible then that if Antrim were
2		to be valuing this facility the way Lempster
3		was, at say a number like 44 million, and then
4		it's dropped to 29, by the time the court
5		decision was rendered, there could be
6		conceivably two or three years of potential
7		refunds that would be at stake?
8	А	I don't know that. If you say so, fine.
9	Q	Okay. So let's get back to the question that
10		you alerted to about how this PILOT agreement is
11		giving away money, and I'm going to show you a
12		document that I'm going to hand out and it will
13		take me a second.
14		PRESIDING OFFICER SCOTT: Let's go off the
15		record.
16		(Discussion off the record)
17		(Antrim 7 marked for identification)
18		PRESIDING OFFICER SCOTT: Back on the
19		record.
20	Q	Thank you. So I found this document on
21		Innovative Natural Resources website, and that's
22		your company, obviously?
23	А	Yes.
24	Q	And this was a report. Did you prepare this or

Γ

1		did you Mr. Kingsley or who did this?
2	A	I did not prepare this.
3	Q	Have you seen, you've seen the report before, I
4		assume?
5	A	Yes.
6	Q	And, in fact, your firm has done a series of
7		these, and I believe if I understand the purpose
8		correctly it was to evaluate the benefits of
9		siting a generation project like a wood biomass
10		project in a community?
11	А	That's incorrect. Would you like me to explain
12		what this is about?
13	Q	Please do.
14	А	The cost of community services studies, the
15		methodology for these was developed by this by a
16		national nonprofit organization called the
17		American Farmland Trust. They developed the
18		early ones, I believe, in the late, mid 1980s or
19		thereabouts. So they developed a methodology
20		that really took a look at what essentially the
21		cost of various land types in a community were
22		based on their use, and chiefly, it was split
23		into three categories as you see on page 3 of
24		this. It shows these three categories:

1		residential use, commercial industrial use and
2		then open space use. And so these studies,
3		again, we didn't develop the methodology, but we
4		have used it, really takes a look at this in a
5		very detailed way by going through all the town
6		records for a given year so it's a snapshot
7		study, it's not a projection, to look at the
8		revenue that is gathered from a particular land
9		type in that community, that year, and the cost
10		for servicing the acres associated with that
11		land type in that community for that year.
12		That's what these are about.
13	Q	Okay.
14	А	They have nothing to do with any kind of
15		renewable energy.
16	Q	But it is intended to assist perhaps municipal
17		officials or others in understanding the
18		positives, pros and cons, and benefits of
19		
		different forms of land uses, right?
20	A	different forms of land uses, right? We never talk about it that way. We simply,
	A	
20	A	We never talk about it that way. We simply,
20 21	A	We never talk about it that way. We simply, when town officials have asked us to perform

1		three land types in a given tax year.
2	Q	Okay. So let's look at page 2, and I want to go
3		to the middle paragraph and I'll read it to you.
4		It says in Mont Vernon, the town spends
5		1.03 for every one dollar it takes in from
6		residential land use. Better put, for every
7		\$10,000 in property tax and other revenues the
8		town receives from residential land use, it
9		spends \$10,300 to provide services.
10		So I'll ask you if I read that correctly
11		and I want to come back and ask you questions
12		about that. Is that right?
13	А	Is what right?
14	Q	Did I read that to you correctly?
15	А	Well, I think you just read the words.
16	Q	That's fine. I'm just making sure that what's
17		in the records is what's in the report so that
18		when people look at the transcript they'll be
19		able to make that connection.
20		And then the, I'll ask you questions after
21		we go over the next two sentences in the next
22		paragraph. It says for commercial and
23		industrial land, the town spends only four cents
24		in services for each dollar in revenue. This is

1		a remarkably low figure and is likely so low
2		because of the very small amount of commercial
3		industrial land in town.
4		And so I want to start with that point.
5		Like Mont Vernon in 2002, the Town of Antrim has
6		very small amounts of commercial industrial
7		property tax base, right?
8	А	I don't have the assessment rolls before me.
9		Certainly there are towns that have more
10		commercial industrial than Antrim, yes.
11	Q	In fact, when you, if you were to look at and we
12		don't have to go there, if you were to look at
13		the Antrim Exhibit 1, there's a document
14		attached to that that shows the top 10 taxpayers
15		in town, and I believe when you get to number 3
16		or number 4, it was a property that was in
17		current use. Does that sound about right to
18		you?
19	A	Again, I don't know. I don't recall seeing
20		that.
21	Q	And I think number 6 was a residence?
22	А	I don't have the list before me so I can't
23	Q	But you wouldn't dispute that that might be the
24		case.

1	A	I don't know. I haven't seen the list.
2	Q	And I'm just trying to save time. So, I guess
3		my sense coming away from this is that Antrim
4		has almost no real significant commercial or
5		industrial tax base. Do you agree with that?
б	А	Relative to Manchester, that's correct.
7	Q	Relative to many other towns as well.
8	A	Sure, but we could find towns that have less
9		commercial industrial tax base than Antrim.
10	Q	Okay.
11	A	And I should say that this analysis, the part
12		that you referenced here for Mont Vernon, it
13		looks as ad valorem taxes paid by commercial
14		industrial, not PILOTs, just so you know the
15		methodology.
16	Q	Absolutely. So let me get to the key point that
17		I wanted to make was is that the payments that
18		Antrim Wind is going to make under the PILOT
19		agreement, those are more akin to payments made
20		by an entity that's not going to cost the town a
21		tremendous amount of money in municipal,
22		education or county services, right?
23	A	To an extent, that's true. I mean, the issue
24		here that I've had since the beginning is that

2 essentially allowed the taxpayers of Antrim to 3 help finance this project, and I'm all for 4 private business, that's what my company is 5 about and all the clients we have or many of the clients we have, but it's not, I don't believe 6 7 it's appropriate for the taxpayers of Antrim to be part of the financing of this project, and by 8 9 signing a PILOT agreement, by saving the company five million or more, depending on whose numbers 10 11 we use, in taxes over the life of this project, 12 and in fact reducing the front-loaded nature of 13 ad valorem taxes which is where Antrim Wind would have all of its cost of developing the 14 15 project, the taxpayers of Antrim are paying for 16 this project by not getting the full ad valorem 17 tax revenue. That's been my issue from the 18 beginning.

WITNESS - LEVESQUE

1

by signing a PILOT agreement, the Selectmen have

19So while the town might get property tax20revenue that it would not otherwise have from21this project, it could do a lot better, and22that's what we expect of our Selectmen, to do23the best they can to reduce the tax burden of24taxpayers in town. The decision doesn't do

1		that.
2	Q	And I understand and I'm not going to argue with
3		your opinion on that because I think we have a
4		different one, and we'll just have to agree to
5		disagree, but the one thing I do take issue with
6		is when you say that the taxpayers are financing
7		this, in fact the taxpayers are receiving more
8		money that they're giving out, right?
9	А	No. The fact is that five million or more that
10		the Town of Antrim is not going to get in taxes
11		and which would help reduce the tax burden of
12		each taxpayer in Antrim is going to finance the
13		project for Antrim Wind because it reduces the
14		cost of the side of the ledger that they have on
15		their pro forma. That's a fact. If they have
16		reduced cost, then it's helping them finance
17		this and we are doing that as taxpayers under
18		the PILOT.
19	Q	Financing implies, in my view, that the town
20		would be giving money and that's not what's
21		happening. The town is not writing a check and
22		paying money to Antrim Wind, right?
23	A	No. It's the same thing. Whether you reduce
24		the revenues or provide payments directly, the

1		end result is the same in the pro forma.
2	Q	But it has a different effect because the
3		taxpayer
4		MS. LINOWES: Mr. Chairman, this is going
5		back and forth.
6	Q	If the taxpayers are actually writing a check,
7		then that's giving away money whereas in this
8		case they may be getting more, and if it's like
9		what it is in Mont Vernon they may be getting
10		one dollar in taxation that only costs them four
11		cents in services. That's possible, isn't it?
12		That's what this report says happened in Mont
13		Vernon or would have happened in Mont Vernon.
14	A	Again, this is all about semantics, and we
15		disagree on this, as you said before.
16	Q	So is it your position then that the \$324,000 is
17		something the Committee shouldn't consider at
18		all?
19	A	As I said before, what I want the Committee to
20		understand is simply that the decision making of
21		the Selectmen in Antrim has not been in the best
22		interest of the taxpayers of the town.
23	Q	So do we disregard a benefit simply because we
24		might have gotten a bigger one?

1	A	Again, I said it before. I'm not going to
2		repeat the answer.
3	Q	Okay. You know, what's funny for me, though, is
4		that it almost looks like the legislature has
5		come to a different conclusion than you have
6		because isn't the whole purpose of the PILOT
7		legislation to allow the promotion of renewable
8		energy projects by enabling them to make
9		property tax payments like this and promote the
10		projects at the same time? Isn't that the
11		purpose of the law?
12	А	That's correct, but it does not compel the
13		Selectmen to sign a PILOT. It gives them the
14		option to do so, and in choosing that option in
15		this case the taxpayers are paying for it in
16		Antrim.
17	Q	Okay. But when we turn on the lights and we buy
18		electricity, and if we have a service provider
19		that buys RECs from the wood project, we're
20		paying a premium for that. We're paying more
21		than we would need to for electricity. So
22		aren't their some types of circumstance where as
23		a policy matter the law says it's better to do
24		that than not do this?

×.	
А	That's correct. I believe I said that. I'm not
	sure where.
Q	You said it in your testimony in 2011 as well,
	right?
A	I probably did.
Q	What I find odd is that, and let me just walk
	through some of the history. When the project
	originally came, and I'm not going to ask you
	for long answers here. There was a proposed
	ordinance that would have made this an allowed
	use and you wrote a letter to the town
	challenging the notice procedures, right?
А	That's right because the procedures of the
	Planning Board for that initial foray into
	amending the zoning ordinances were against the
	law, and that's why I wrote that letter and I
	don't know town counsel, wasn't you, town
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А From where I live?

right?

Q Yes.

Α

Q

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State law. Again, the Selectmen had the choice.

believe you can see or hear the project or that

you will be able to see or hear the project,

WITNESS - LEVESQUE

You state in your testimony that you don't

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1		counsel agreed with me and so the Planning Board
2		pulled back that proposal, and it did not go
3		forward that year.
4	Q	Exactly, and I agree with your assessment. I
5		believe it was our office that agreed with your
6		position that the notice was defective. The
7		article was pulled from the warrant. But then a
8		subsequent meeting was scheduled for November of
9		2011, and a town meeting was going to be held.
10		You were elected to the Planning Board that
11		year, and I think one of the first meetings that
12		you were on the Planning Board there was a vote
13		taken to reconsider the decision to propose the
14		ordinance that had the prior notice defect,
15		right?
16	А	When was this?
17	Q	This would have been, I believe it was March
18		9th, 2011. So it would be the first
19		organizational meeting of the Planning Board
20		following your election.
21	A	Yes. So two of the members of the previous
22		Board, in other words, they carried over, their
23		term did not expire that first meeting that I
24		went to which I'm trying to remember. Anyways,

1		they made a buildin of different motions, those
2		members who were there previously, to change the
3		decisions of the previous Planning Board on that
4		Zoning Board misproposal which was, I think,
5		like a one-word proposal to allow large scale
6		wind to be a permitted use in the zone.
7	Q	Right. Right. And so you were part of the
8		Planning Board that voted to reconsider the
9		decision to hold the meeting that would have
10		made Antrim Wind an allowed use in 2011.
11	А	With a one-word amendment to the zoning
12		ordinance. Again, these Planning Board members
13		made these motions, and I did in fact vote in
14		agreement with them.
15	Q	We've all read your testimony so I understand
16		your view of what the reasons were. I'm just
17		trying to march through the different sequence
18		of events. Now, when the Site Evaluation
19		Committee, after that meeting was called off,
20		and so there was no specific meeting in 2011, I
21		believe, the Site Evaluation Committee then held
22		hearings and decided and actually voted to hold
23		jurisdiction over this project, right?
24	А	Yes.

1	Q	And you participated in that process?
2	А	As a member of the Planning Board, yes.
3	Q	And I believe a couple days after the SEC voted
4		so before its decision had even come out, you
5		wrote a memo to the Planning Board recommending
6		the Planning Board move for rehearing and appeal
7		the decision, right?
8	A	I don't recall that, but I may have.
9	Q	Okay. Do you want me to show it to you
10		because
11	A	No. I'll take your word for it.
12	Q	So that's likely true?
13	A	I did not agree with the decision that the SEC
14		made at that time. That's true.
15	Q	Okay. And here's another one that struck me
16		odd. When, and let's look at the 2014 ordinance
17		that you referred to in earlier questions today.
18		When the Planning Board decided not to recommend
19		the ordinance that had been proposed by
20		supporters, there was a vote to recommend the
21		ordinance or excuse me, recommend against it,
22		not recommend it, and that was a 4 to 3 vote,
23		right?
24	A	I guess so. I mean, it was a vote in the

1		majority to not recommend. That much I
2		remember.
3	Q	So right after and I have the minutes here, I
4		can show them to you if you'd like, but right
5		after the Planning Board voted to not recommend
6		that ordinance, there was a motion by Gordon
7		Webber to show the vote total on the warrant.
8		Do you recall that?
9	А	I don't know who made that motion. I mean, I
10		remember what decision got made in the end, not
11		to show it, yes.
12	Q	And the same 4 to 3 split that had not
13		recommended it, and you were on the side of not
14		recommending it, then voted against the motion 4
15		to 3 so that the warrant showed that the
16		Planning Board just didn't recommend it, but it
17		didn't show that it was a split vote.
18	А	Yes. That's how it turned out.
19	Q	Now, I guess, how does that, I mean, that
20		bothers me because I've been a Planning Board
21		member before, and I always feel if the Planning
22		Board
23		MS. MALONEY: I'm going to object as to
24		relevance. This has been going on for a while,

because it shows that what was done was intended				
to do whatever was possible in order to				
basically defeat the ordinance that had been				
proposed and defeat the project				

4 PRESIDING OFFICER SCOTT: Yes, can you help 5 me, Mr. Richardson? You're taking us down 6 memory lane here, I quess. How far are we 7 qoinq? Absolutely, and what I'm 8 MR. RICHARDSON: 9 trying to do is lay a foundation on the issue of 10 bias and the actions and steps that this member 11 of the Planning Board has been involved in. 12 MS. MALONEY: Mr. Levesque has clearly 13 stated his intentions with respect to the wind I think the Committee knows where he 14 farm. 15 stands on that. So I don't know what, how that 16 bias, how that is relevant. 17 MR. RICHARDSON: I think it's relevant

19 to do whatever er to 20 basically defea t had been 21 proposed and defeat the project. 22 MS. MALONEY: Same objection. 23 PRESIDING OFFICER SCOTT: Well, obviously, 24 we do have the record, but I'll ask you to do

Committee make a determination, and I'm not sure

but I'm not really sure how it helps the

where he's going with this.

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this quickly, please. 1 2 MR. RICHARDSON: Absolutely. 3 BY MR. RICHARDSON: So I guess what my question is, how is not 4 0 5 showing the public that the Planning Board's 6 decision was split 4 to 3, how was that 7 consistent with your role representing the interests of all citizens in Antrim? 8 Don't they 9 have a right to know that the Planning Board's decision was far from unanimous? 10 11 The Planning Board in past votes on issues like А 12 that didn't usually include the vote total. 13 That's why I voted against doing it. But the 14 bigger issue here, the reason why I didn't agree 15 with the previous Planning Board on putting 16 fortH a proposal for the zoning ordinance that 17 was a one-word change to the zoning ordinance is 18 that it was irresponsible for a project of this 19 magnitude for the zoning ordinance to allow it 20 without any guidelines whatsoever that would 21 govern this kind of development since there was 22 nothing else in the site plan review regulations or in subdivision or otherwise that could 23 24 properly protect the health safety and welfare

of the citizens of Antrim, if this kind of project came forth as a project before the Planning Board. So I wasn't against the project then. Ι was simply showing that that proposal with the one-word change was irresponsible. I was integrally involved in developing the various proposals the Planning Board put forth to allow for an ordinance that would in fact have allowed this as a permitted use, but because of magnitude was much more detailed to protect, again, the health, safety and welfare of the citizens of Antrim. So that's where I've come from from the beginning. PRESIDING OFFICER SCOTT: Mr. Richardson? Mr. Chairman --MR. WARD: PRESIDING OFFICER SCOTT: Just a second,

18 Mr. Ward.

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20 PRESIDING OFFICER SCOTT: Just a second.
21 You're interrupting me right now. So
22 Mr. Richardson, earlier you passed out the
23 Innovative Natural Resources. Is that something
24 you plan on being marked?

MR. WARD:

May I interrupt for one --

1		MR. RICHARDSON: I apologize. I'm trying
2		to multi-task. That is an exhibit. I believe
3		we are at Antrim Exhibit 7. I'd like to mark
4		this as Antrim Exhibit 8, and the reason, and if
5		my one of my Selectmen could distribute this, it
6		would be a great help to me. What I wanted to
7		show because as the witness was testifying, he
8		was referring to this as a vote that was taken
9		in 2014. Did I give you a copy of this? I
10		don't think I did.
11	A	You did not.
12		MR. IAOCOPINO: Mr. Richardson, when you
13		say you want to mark "this" as Antrim Exhibit 8,
14		that is the Planning Board minutes from Antrim
15		for January 23, 2014.
16		MR. RICHARDSON: That is correct.
17		(Antrim 8 marked for identification)
18		PRESIDING OFFICER SCOTT: Hold on, Mr.
19		Richardson. We have an objection here, I
20		believe. Mr. Ward?
21		MR. RICHARDSON: There's not a question
22		pending right now.
23		MR. WARD: I have a problem. If I don't
24		finish today, then I won't be married when I

2	is a lot of time being spent, and I don't see
3	much of it being done, and if it's going to
4	continue at this rate, then I would request is
5	that I get an hour or more on the stand now and
б	they can pick this up whenever they feel like
7	it. Thank you.
8	MR. RICHARDSON: I wish I had made those
9	arguments earlier in this proceeding when we
10	were discussing meteorology. I'm trying to be
11	very quick here. These aren't easy answers, and
12	I'm not getting easy answer from the witness.
13	PRESIDING OFFICER SCOTT: Mr. Ward, I'm
14	receptive to what you're saying, but we've tried
15	to give a lot of people a lot of purview here so
16	I think we're getting close to the end.
17	MR. WARD: We have spent an enormous amount
18	of time on nothing much. That's what the
19	problem is.
20	PRESIDING OFFICER SCOTT: That's your
21	opinion. I suspect Mr. Richardson has a
22	different opinion on that.
23	So why don't you press on, Mr. Richardson,
24	understanding that we do have time constraints.
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WITNESS - LEVESQUE

don't come back here for the next meeting.

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1	Q	Let me move on to the next subject then.
2		Now, I'm just about done here so I want
3		to turn your attention and this so something,
4		The Outdoor Guide for the Town of Antrim, that's
5		in your testimony, right?
6	A	No, I don't believe so.
7	Q	It's not. Okay. Well, then I have a page I'd
8		like to show you from that, and I'd like to mark
9		this as Antrim Exhibit 9.
10		(Antrim 9 marked for identification)
11	Q	It's a pretty simple exhibit. This is a page
12		from The Outdoor Guide that you participated in,
13		right?
14	А	I remember buying an ad. This is probably not
15		the most recent one. This is probably a half
16		dozen years ago. Do you know what year this is
17		from because they did many guides.
18	Q	Yes, this is the guide that's on the town's
19		website that you can download. So maybe this is
20		the current one.
21	А	I don't know.
22	Q	But so it says here that your office provides
23		services in renewable energy, and that's right,
24		right?

1	A	That's correct.
2	Q	And I believe that's almost entirely related to
3		the wood products industry, right?
4	A	That's incorrect.
5	Q	Okay. It's a fairly significant portion of it,
б		isn't it?
7	A	The renewable energy portion of what we provide
8		for services?
9	Q	Yes. You do consulting work for the forest
10		industry, for wood-fired generating facilities,
11		you did the valuation or the review of the
12		market for wood products on Schiller Station, I
13		believe.
14	A	We do a lot of work forest products industry
15		related.
16	Q	Clean power development up in Berlin?
17	A	Yes. We've done a lot of work on all kinds of
18		renewable energy including wind and including
19		solar. And biomass is our expertise.
20	Q	What strikes me is the next one where it
21		discusses advocacy services. It strikes me that
22		what you're doing in this proceeding on a
23		project that you can't see from your home and
24		that you don't expect to hear from your home,

1		yet you have brought lawsuits against the town
2		under right to know, you've challenged the
3		notices, you've refused to show the vote totals
4		on articles that were split when they were
5		presented by the Planning Board
6	А	That's incorrect. There was a Planning Board
7		vote. I was one of the individuals who voted on
8		that.
9	Q	Okay. But that's all work that seems to fall in
10		the category of advocacy, and, specifically,
11		advocacy against this project.
12	A	In all of these proceedings, I have been a
13		volunteer. It has nothing to do with my
14		company.
15	Q	Okay.
16	А	I'm a resident of Antrim, and I'm a taxpayer of
17		Antrim, and as I said before, my big issue has
18		been the PILOT agreement that got signed as a
19		taxpayer.
20	Q	And when the town of Stoddard met to consider
21		its vote to take a position against this project
22		you were invited and the Board of Selectmen was
23		not, despite requesting it.
24	A	I was invited by Geoff Jones to come. I had no

it you worked for an organ	iza
hich was the Trust for th	e N
e Lands?	
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1		idea what had happened relative to the Antrim
2		Board of Selectmen.
3	Q	And Mr. Jones has worked for the Forest Society
4		where you worked excuse me. Mr. Jones worked
5		there since 1979, according to his resume and
6		his testimony?
7	А	I don't know that.
8	Q	But you've known him for how long?
9	A	Certainly since the 1980s.
10	Q	Okay. So that's a long time and you've worked
11		with him because he's a forester, you were the
12		Executive Director of the Timberland Owners
13		Association?
14	A	Earlier in my career I was.
15	Q	Okay. So and then Mr. Wells is also someone
16		that you've known through your involvement
17		because he was at the Forest Society and you
18		were at the Forest Society although not at the
19		same time, right?
20	А	I never worked for the Forest Society.
21	Q	Okay. But you worked for an organization they
22		started which was the Trust for the New
23		Hampshire Lands?
24	A	I did.

1	Q	And they were basically, that was
2		administratively attached to the Forest Society?
3	А	Not exactly, but that's nuance.
4	Q	Was it in the same office up in Concord?
5	А	I was located at the Conservation Center.
6	Q	Okay. And how long have you known Mr. Wells?
7	А	I don't know. Since some time during the '90s.
8		I'm not sure when I first met him.
9	Q	When it came time for you to file your
10		testimony, you worked with him and wrote
11		questions for him and filled in answers based on
12		documents for his report to the Committee as
13		well.
14	А	I asked him to participate in this docket
15		because he was an expert on Q2C, and I felt that
16		that was something that the Committee needed to
17		know about.
18	Q	Were you here earlier today when he agreed with
19		me that you more or less provided the answers or
20		he pointed you to where to get the answers and
21		you put his testimony together for him?
22	A	I was not. I was not here.
23		MS. BERWICK: I'm going to object. What he
24		said was that Mr. Levesque collated the

1		information that he gave to him.
2		MR. RICHARDSON: You can word it one way or
3		the other, and that's fine.
4	A	I did not write his testimony. He pointed to
5		existing documents for Quabbin to Cardigan and I
6		literally heisted language right off the website
7		and put it in his testimony. I did not write
8		thinking for him. It's cut and paste and Word.
9		That's all I did.
10	Q	That's you. That's all I have.
11		PRESIDING OFFICER SCOTT: The Applicant?
12		CROSS-EXAMINATION
13	BY N	MR. NEEDLEMAN:
13 14	BY N Q	MR. NEEDLEMAN: Thank you. Dr. Ward, I'll do everything I can
14		Thank you. Dr. Ward, I'll do everything I can
14 15		Thank you. Dr. Ward, I'll do everything I can to get you up today.
14 15 16		Thank you. Dr. Ward, I'll do everything I can to get you up today. Mr. Levesque, afternoon. I'm looking at
14 15 16 17		Thank you. Dr. Ward, I'll do everything I can to get you up today. Mr. Levesque, afternoon. I'm looking at the Open Space Plan that you were talking about
14 15 16 17 18		Thank you. Dr. Ward, I'll do everything I can to get you up today. Mr. Levesque, afternoon. I'm looking at the Open Space Plan that you were talking about earlier, and attached to that Open Space Plan in
14 15 16 17 18 19		Thank you. Dr. Ward, I'll do everything I can to get you up today. Mr. Levesque, afternoon. I'm looking at the Open Space Plan that you were talking about earlier, and attached to that Open Space Plan in an Appendix is a survey that it appears the
14 15 16 17 18 19 20		Thank you. Dr. Ward, I'll do everything I can to get you up today. Mr. Levesque, afternoon. I'm looking at the Open Space Plan that you were talking about earlier, and attached to that Open Space Plan in an Appendix is a survey that it appears the Committee sent out to get feedback from the
14 15 16 17 18 19 20 21	Q	Thank you. Dr. Ward, I'll do everything I can to get you up today. Mr. Levesque, afternoon. I'm looking at the Open Space Plan that you were talking about earlier, and attached to that Open Space Plan in an Appendix is a survey that it appears the Committee sent out to get feedback from the community. Does that sound familiar?

1		in that survey said, please indicate any
2		specific areas in Antrim that you believe should
3		be protected as open space and why. And there
4		are general categories and only two of the
5		respondents, and I think there were something
6		like 54 respondents, only two of them said
7		mountain areas, does that sound right?
8	A	I'm looking at it. That's what it says.
9	Q	And then underneath there are specific sites
10		that you asked to be identified, and they
11		identified a bunch of specific sites and no
12		where on that list is Tuttle Hill or Willard
13		Pond; is that right?
14	А	I don't know. I'm reading it as you speak here.
15		So the open space on Route 9 is referring to
16		that. I remember discussions with individuals
17		who were talking about it that way.
18	Q	It talks about Route 9 though. It doesn't talk
19		about Tuttle Hill, and it doesn't talk about
20		Willard Pond; is that right?
21	A	Lot of people don't necessarily know the names
22		of the peaks.
23	Q	I'm not asking for a characterization. I'm
24		asking you what's on the list, and they are not

1		on the list; is that correct?
2	А	Not with those names.
3	Q	Okay. Thank you.
4	A	They are there with generic terms.
5	Q	Mr. Kenworthy in his Supplemental Testimony at
6		page 11 talked a little bit about the Open Space
7		Plan. He mentioned this issue, and also on line
8		11, he said quote, one, referring to the
9		principles that guide the Open Space Committee's
10		recommendations, he said, one of those
11		principles was that not all land can be
12		conserved; and another was that land
13		conservation techniques will only include a,
14		quote, willing buyer/willing seller and educated
15		taxpayer, close quote.
16		Does that sound familiar to you?
17	А	Yes. I wrote that.
18	Q	Okay. Thank you. So it sounds like the Open
19		Space Committee was placing a premium on the
20		desires of landowners with respect to conserving
21		open space; is that fair to say?
22	A	The members of the committee and the Open Space
23		Plan itself respected the rights of private
24		landowners, and I do that as well.

Q	And so to the extent that private landowners in
	this particular case have expressed a desire
	with respect to how they want to use their land,
	that's something that I take it you would
	respect?
A	I do respect that.
Q	Okay. Now, do you recall when you were
	cross-examining Mr. Raphael you had a back and
	forth with him about the 2010 Antrim master
	plan. I think Ms. Berwick referred to that
	earlier today; do you remember that?
А	Yes.
Q	And you asked Mr. Raphael whether the general
	statements in the plan concerning scenic values
	were something that he considered, and I think
	what he said to you was that general statements
	like that were not particularly helpful to him,
	and what he said was that frequently people in
	his profession look for specificity in plans
	about individual resources and views. Do you
	remember that back and forth you had with him?
A	Yes, I do.
Q	In 2011, I think you said you were a member of
	the Antrim Planning Board; is that right?
	A Q A

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1	A	That's the year that I was voted in. Yes.
2	Q	So you were aware of this exact issue that
3		Mr. Raphael mentioned as a member of the Antrim
4		Planning Board in 2011, weren't you?
5	A	What issue is that? I'm sorry.
6	Q	The issue about the lack of specificity in the
7		master plan in terms of identifying specific
8		scenic resources.
9	A	No, it wasn't. I will admit that when I was
10		elected to the Planning Board I had not read the
11		master plan that was adopted by the Planning
12		Board in 2010.
13	Q	Isn't it true that an ad hoc committee of the
14		Planning Board was retained at that point in
15		time to assist the Planning Board in evaluating
16		this kind of issue?
17	A	This kind of issue? I'm confused.
18	Q	The specific issue I just walked about. The
19		issue of indication of scenic resource and how
20		to describe those types of things in the master
21		plan; do you recall that?
22	A	No. I don't.
23	Q	Do you remember that the ad hoc committee
24		retained someone named Jean Vissering, and Ms.

1		Vissering was Public Counsel's visual expert in
2		the prior Antrim docket, and the ad hoc
3		committee retained her to assist you
4	A	Oh, yes, you mean for the ordinance development.
5	Q	Yes.
6	A	Yes. Okay. You didn't say that.
7	Q	Also with respect to consultation on this issue
8		in the master plan.
9	A	No. That's not why she was hired.
10	Q	Well, let's look at some exhibits. Can you pass
11		those out, please? I'm having two exhibits
12		handed out.
13	A	She was hired specifically to assist the
13 14	A	She was hired specifically to assist the Planning Board in developing a zoning ordinance
	A	
14	А	Planning Board in developing a zoning ordinance
14 15	A Q	Planning Board in developing a zoning ordinance amendment for the voters relative to large scale
14 15 16		Planning Board in developing a zoning ordinance amendment for the voters relative to large scale wind.
14 15 16 17		Planning Board in developing a zoning ordinance amendment for the voters relative to large scale wind. And I think that's what this will show, and
14 15 16 17 18		Planning Board in developing a zoning ordinance amendment for the voters relative to large scale wind. And I think that's what this will show, and we'll talk about it in a minute.
14 15 16 17 18 19	Q	<pre>Planning Board in developing a zoning ordinance amendment for the voters relative to large scale wind. And I think that's what this will show, and we'll talk about it in a minute. (Applicant 45 and 46 marked for identification)</pre>
14 15 16 17 18 19 20	Q	<pre>Planning Board in developing a zoning ordinance amendment for the voters relative to large scale wind. And I think that's what this will show, and we'll talk about it in a minute. (Applicant 45 and 46 marked for identification) So we've handed out two exhibits. I guess we're</pre>
14 15 16 17 18 19 20 21	Q	<pre>Planning Board in developing a zoning ordinance amendment for the voters relative to large scale wind. And I think that's what this will show, and we'll talk about it in a minute. (Applicant 45 and 46 marked for identification) So we've handed out two exhibits. I guess we're going to mark those as Applicant 45 and 46. 45</pre>

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1	А	Yes.
2	Q	So I'm looking at the Jean Vissering document,
3		and there is something that was her preliminary
4		review which she provided to that ad hoc
5		committee on July 25th, 2011. See that?
6	A	Yes.
7	Q	And the second paragraph in there has some
8		underlining. Can you read that underlining?
9	A	Mine doesn't have any underlining.
10	Q	I'm sorry. My apologies. So I'm looking at
11		Zoning Versus Master Plan heading. Do you see
12		that?
13	А	Yes.
14	Q	And the second sentence in there or the third
15		sentence begins, and I'll read it. The master
16		plan notes, for example, that protecting scenic
17		resources is important to citizens of the town,
18		but it provides no guidance as to particular
19		views or resources that might be important. Do
20		you see that?
21	A	Yes.
22	Q	Flip over to the next page, the top paragraph.
23		This is Ms. Vissering talking about how the Site
24		Evaluation Committee might look at issues like

1		this, and looks like on the fourth line down,
2		sentence begins, they will be looking for clear
3		language about particular resources or
4		particular concerns. General statements about
5		rural character are not particularly helpful.
б		If a lake or pond is noted only for its natural
7		values, the scenic characteristics won't be
8		given as much consideration.
9		Do you see that?
10	A	Yes.
11	Q	So isn't this the exact issue that Mr. Raphael
12		was talking to you about when you were
13		cross-examining him?
14	А	I understand how you're relating it back to
15		that. The Planning Board at that time was
16		working with the master plan that had just been
17		adopted in 2010 and which a whole group of folks
18		had worked on for years, and, frankly, the
19		Planning Board just did not have the energy or
20		the volunteer power to make any move towards
21		amending the master plan at that time because it
22		had just been adopted. I understand where
23		you're going with it, but the Planning Board
24		just didn't want to work on that. It worked

1		instead all of 2011 on developing a zoning
2		ordinance amendment that would have allowed a
3		large scale wind, and believe me, that was, it
4		took up everybody's name.
5	Q	I'm sure it did, and just to be clear, I'm not
6		talking about amending it. I'm talking about
7		knowing about this exact issue five years before
8		you cross-examined Mr. Raphael on it. That's my
9		point.
10		So let's look at the Town of Antrim
11		Planning Board minutes which is the second
12		document I handed out. In the middle of this
13		document, it talks about the ad hoc committee.
14		Do you see that?
15	A	I see where it says that. Yes.
16	Q	And it talks about receipt of this Jean
17		Vissering report. Do you see that?
18	A	No, but I'll take your word for it.
19	Q	It's the second line, the Jean Vissering report,
20		parentheses, landscape architect, has been
21		received.
22	A	Yes, I see that.
23	Q	A few lines down it notes that you were present
24		at this meeting. Do you see that?

1	A	Yes.
2	Q	And then underneath there are series of bullet
3		points; do you see that?
4	А	Yes.
5	Q	The fourth bullet point says the master plan has
6		weaknesses that should be addressed. An
7		example, quote, talks about things that we
8		value, close quote, but does not name them or
9		give a clear description. Do you see that?
10	А	Yes, I do.
11	Q	So isn't it fair to say again that when you were
12		questioning Mr. Raphael about these issues and
13		he identified them for you, that in fact Ms.
14		Vissering informed the Planning Board and you
15		about these issues over five years ago?
16	А	Yes, but you're making an assumption that I
17		agree with Ms. Vissering on these issues and
18		that's not necessarily the case. I feel today
19		as I did then that that section is sufficiently
20		clear that it's referring to Willard Pond as an
21		example because that's what I cross-examined him
22		about, and so I don't necessarily agree with her
23		that there was a need to develop more
24		specificity.

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Q	Certainly Ms. Vissering and Mr. Raphael are in
	agreement about the lack of specificity, aren't
	they?
A	It appears so.
Q	Let's turn to the PILOT agreement that we were
	talking about a little while ago. Is it correct
	that when the prior project was considered by
	the Site Evaluation Committee, a visually
	identical version of the PILOT agreement was
	before that Committee?
A	That was before that Committee?
Q	It was before that Committee, right, a virtually
	identical version?
A	I don't know if it got in the record about that.
	My role was as a representative of the Planning
	Board, as an Intervenor. The Planning Board was
	an Intervenor, and as part of that role we did
	not address issues around the PILOT. That was a
	personal issue I had. Here, this time I'm here
	as an individual citizen, and that's why I
	brought it up, but the Planning Board was not
	concerned with the PILOT agreement.
Q	If I were to tell you that the Site Evaluation
	Committee in the prior docket considered,
	Q A Q

essentially, an identical version of the PILOT agreement and that they considered specifically when they found that the project did not unduly interfere with the orderly regional development, would you have any reason to disagree with me on that? A You're making an assumption that they, in fact, decided that, and, again, they turned the project down, and they did write some language around that issue, but ultimately the project

The record will speak for itself on this issue.

to evaluate the tax issue. I think earlier you

said that you brought in an earlier version of

I think you also said that this issue had been

this model for the Selectmen's consideration and

Let's turn now to this model that you used

was turned down.

A Yes. I had talked with the Selectmen about this many, many years ago. Again, I think it certainly was in 2011. I'm not sure if it was before that.
 Q So at least five years ago, possibly longer?
 A Yes.

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around for long time; is that right?

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1	Q	So they had the benefit of your thinking about
2		this issue; is that fair to say?
3	A	I don't know that. I testified at a number of
4		hearings and spoke with them about that. They
5		ignored what I had to say.
6	Q	They heard what you had to say, right?
7	А	I don't know that they did because they
8		certainly didn't respond to it. They totally
9		ignored the comments when I made then at a
10		series of meetings. They didn't respond to it,
11		didn't ask me questions about it. They totally
12		ignored it.
13	Q	Did you have the opportunity to make your views
14		about this issue known to the Selectmen?
15	A	Yes, I did.
16	Q	And did you have that opportunity on multiple
17		occasions?
18	A	I did.
19	Q	So it sounds to me like what you're actually
20		doing here is essentially saying that you would
21		like the Committee to substitute your judgment
22		for the judgment of the Planning Board with
23		respect to the benefits of PILOT; is that right?
24	А	No. What I'm saying is as I said before in

1		answering Mr. Richardson, is that I wanted the
2		Committee to know that the Selectmen made a
3		decision about taxes in the town affecting
4		taxpayers who they are supposed to be
5		representing that affected the taxpayers in a
6		less than positive way, and they did so without
7		even knowing the magnitude of the decision that
8		they made.
9	Q	And you're basing that statement on the work you
10		did with your model; is that right?
11	A	That's correct.
12	Q	Now, we talked about your model at the technical
13		session; do you recall that?
14	А	Yes.
15	Q	This is the model that you told me was
16		proprietary and that's loosely based on a model
17		you use in your business; is that right?
18	А	Yes.
19	Q	And we asked for it and you wouldn't give it to
20		us; is that right?
21	A	That's correct.
22	Q	And you said you adapted it to use in this
23		particular case, right?
24	А	Correct.

1	Q	And I asked you whether it had ever been used
2		for this purpose before and you told me it
3		hadn't, do you remember that?
4	A	We had not used it for this purpose. It's an
5		adapted pro forma is what it is.
6	Q	I asked you what the margin of error was and you
7		told me you couldn't possibly tell me that,
8		remember that?
9	A	I do, and I also said to you at that time that I
10		would really like to see the model that the
11		Selectmen used before they made the decision,
12		and it was clear that they used no model and no
13		data at all to make a decision to give away
14		millions of dollars of tax revenue. Do you
15		remember that?
16	Q	And we agreed that you had to plug in a whole
17		range of assumptions in your model in order to
18		get to work; is that right?
19	A	That's how a model works.
20	Q	And we also agreed that if your assumptions were
21		wrong, the output would be wrong; is that right?
22	A	That's how a model works.
23	Q	And the assumptions that you included in your
24		model were things like projections about what

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	the portion of the municipal contribution of
	taxes would be; is that right?
А	That's correct.
Q	And so you had to make projections about budget
	changes, revenue sources, mill rates and so
	forth.
А	Yes.
Q	And we also agreed that another component would
	be county and school state taxes; is that right?
A	That's correct.
Q	And you had to make similar projections about
	all of that?
А	That's correct.
Q	And if you got any of those projections wrong,
	of course, that would affect the output of your
	model?
А	As it would with any model.
Q	And we also talked about the contribution of
	school taxes in particular, right?
A	Correct.
Q	And did have the opportunity to look at Mr.
	Kenworthy's Supplemental Testimony which is
	Exhibit 24 here?
A	I'm not sure that I have. You want me to find
	Q A Q A Q A Q A Q

1		it?
2	Q	It's up to you. I'm not going to ask you
3		specific questions about it. I just was going
4		to note that Mr. Kenworthy looked at the
5		specific issue of the school taxes, and I think
6		your model assumes that there would be a one
7		percent increase every year, year over year, in
8		school taxes, right?
9	А	Again, I gave you a response from the technical
10		session that described the model in a narrative,
11		and I've got it right here. Can I hand this
12		out, Mr. Chairman.
13		PRESIDING OFFICER SCOTT: Tell you what.
14		Why don't we have Ms. Monroe hand it out and
15		that way you can continue.
16	Q	But it was an one percent assumption, year after
17		year; is that right?
18	А	The assessed value, is that what you're asking?
19	Q	I'm talking about what you assumed the increase
20		in the school tax portion would be, year over
21		year.
22	A	Again, I'm reading from the narrative that I
23		gave you as a response from the technical
24		session. I see that I included in the main

1		analysis that the ConVal budget estimate was two
2		and a half percent increase over time. That
3		overall assessed values would increase one
4		percent per year.
5	Q	Did you have an opportunity to look at the
6		Exhibit JK 13 that has been attached to Mr.
7		Kenworthy's Supplemental Testimony?
8	A	I'm not sure I have. What was that?
9	Q	That's an exhibit where he looked at the
10		historic contributions that the towns in the
11		ConVal School District had to make over time.
12	А	I don't think I looked at that. I'm sorry.
13	Q	Would it surprise you to learn that the
14		contributions over time for towns like Antrim
15		have varied widely from minus 16 percent to as
16		much as 27 percent?
17	А	What do you mean by contributions over time?
18	Q	The proportional contribution that each town has
19		to make year after year to the ConVal School
20		District.
21	А	That they change over time? Is that what your
22		point is?
23	Q	Yes.
24	А	Sure they will change over time.

1	Q	So, in other words, if there's that huge
2		fluctuation, those things are not accounted for
3		in your model. You just picked a linear number
4		and put it in. You didn't look at the historic
5		numbers, did you?
6	A	The changes that result from changes in assessed
7		value town by town, is that what you're talking
8		about?
9	Q	Yes.
10	A	No. I did not project any particular large
11		changes outside of Antrim having the Antrim Wind
12		project built at estimated \$65 million and
13		instead included just the straight line kind of
14		percentage increase over time.
15	Q	In other words, you didn't look at those
16		historic changes and use them as a basis to try
17		to project future changes. You just plugged a
18		number in for linear purposes and assumed
19	A	No. That's not true. I, in fact, did look at
20		historical numbers and estimated from that that
21		it was reasonable to assume that a one percent
22		per year increase be plugged into the model.
23	Q	Now, you talked earlier about a project that you
24		worked on. I think it was in Vermont which you
	1	

1		couldn't identify. And you said that that was a
2		project that was subject to ad valorem taxes.
3		Do you recall that?
4	A	Yes. It wasn't in Vermont, and I won't tell you
5		what state it was in.
6	Q	You don't have to tell me where it is. You also
7		said as part of that discussion that with
8		respect to things like that, there are
9		disagreements all the time. Remember saying
10		that?
11	A	Oh, yes.
12	Q	Okay.
13	A	And the point there was disagreements on the
14		assessments from the assessing officials versus
15		in this case the owner of the wind farm. Those
16		disagreements and in many commercial industrial
17		developments, those disagreements happen about
18		the assessed values.
19	Q	And that actually happens all the time in New
20		Hampshire. Mr. Richardson gave you a couple of
21		examples; do you recall that?
22	A	Yes.
23	Q	And, in fact, it happens a lot through the state
24		with respect to towns assessing utility property

1		taxes; isn't that true?
2	А	I believe so.
3	Q	And it very frequently leads to litigation,
4		doesn't it?
5	A	Yes, it does.
б	Q	And litigation can be time-consuming and
7		expensive, right?
8	А	Yes, and that's why, as I said to
9		Mr. Richardson, that when I had talked to the
10		Selectmen about this and voiced my opinion that
11		the town would be better off using ad valorem
12		versus a PILOT that they in fact use the
13		advantage of having front-loaded large sums of
14		tax revenue coming in from this project to, in
15		fact, hedge the risk that there would be
16		litigation at a later time as a result of a
17		disagreement over the assessment.
18	Q	Well, that's one approach. Another approach
19		would be to enter into a PILOT agreement where
20		the taxes were agreed to so that both sides
21		could avoid that litigation; isn't that true?
22	A	That's true, and in the process of doing that
23		over time over the life of the project the
24		project does not provide as much in the way of

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1		tax revenue to the town as it does in ad
2		valorem.
3	Q	Based on your model.
4	A	Based on my model and other communities. I
5		talked with a number of Selectmen in towns in
6		Maine where projects are located in those towns,
7		and to a person, I'm thinking of one individual
8		in a northwestern town in Maine, who said to me
9		when the Selectmen were contemplating signing a
10		PILOT, he said why would they do that. There's
11		no reason to do that. These projects can be
12		built without PILOTs, and the towns do better
13		with ad valorem. So other towns have had to
14		debate this issue, and Selectmen in other places
15		have decided it's a better deal for the town to
16		not do a PILOT agreement.
17	Q	Well, it's fair to say there must be some reason
18		to do it; otherwise, the state legislature
19		wouldn't have allowed communities to do it,
20		isn't that right?
21	A	Well, again, it allows the communities to do it.
22		Does not compel.
23	Q	In fact, isn't it fair to say that by making a
24		judgment that signing a PILOT here is in the

2		avoided the illigation lisk that seems to be
3		happening in other communities?
4	A	That may have been one of the reasons why they
5		decided. I don't really know.
6	Q	So how did you factor this litigation risk into
7		your model?
8	A	The litigation risk?
9	Q	Yes.
10	A	I didn't factor it. I just said, as I said to
11		you just previously, that as I explained how the
12		differences would, that would occur as a result
13		of that ad valorem versus a PILOT when I
14		advocated for that before the Selectmen before
15		they made the decision, I simply said that it's
16		very likely that if you choose ad valorem, in
17		fact, there will be disagreement and litigation,
18		and you can hedge against that by setting aside
19		a fund to make sure you can pay for that over
20		time and in the process still gain extra tax
21		revenue over the life of the project over a
22		PILOT.
23	Q	Is it fair to say that from the perspective of
24		the project tax predictability can also be very

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best interests of the town, the Selectmen have

avoided the litigation risk that seems to be

-		WIINESS DEVESSOE
1		important?
2	A	Certainly for the developer, yes.
3	Q	And is it also fair to say that absent that type
4		of tax predictability, projects may just not get
5		built?
6	А	I don't know.
7	Q	Have you ever had any experience with that?
8	A	No.
9	Q	Do you have any reason to say that that's not
10		true?
11	A	That that's not true?
12	Q	Right.
13	A	I really don't know. Every project we've been
14		involved with at whatever level in the renewable
15		energy field they've not involved a PILOT
16		agreement so I don't really know.
17	Q	If I were to represent to you that certain
18		projects live or die based on the opportunity to
19		have a PILOT agreement, would you have any
20		reason to disagree with that?
21	А	Again, I don't know that. I haven't heard
22		anybody in this proceeding say that the PILOT
23		was a live or die kind of decision that got
24		made.

1	Q	So if this project did not have a PILOT
2		agreement in Antrim, and, therefore, wasn't
3		built, the town would get no tax revenue, isn't
4		that correct?
5	A	No. The town would have the tax revenue that it
6		currently has.
7	Q	From the land.
8	A	Correct. And all the other taxpayers in town.
9	Q	I'm talking about the difference between the
10		project being built and paying the annual PILOT
11		payments versus no project at all. That would
12		be materially less tax revenue, correct?
13	A	To the town annually, correct.
14	Q	And how did you factor that into your model?
15	A	What do you mean, factor that in? I admit that
16		certainly if the project is built with the PILOT
17		agreement that the net tax revenue as a result
18		to the town annually will be more than we
19		currently have as tax revenue. I admit that for
20		sure. My issue is that the town could be much
21		better off if it didn't do a PILOT because the
22		overall gross and then net tax revenue to the
23		town over time would be greater than if they
24		chose the PILOT.

		111111100 1000000000000000000000000000
1	Q	Thank you. Nothing further.
2		PRESIDING OFFICER SCOTT: Dr. Boisvert?
3	BY I	DR. BOISVERT:
4	Q	I want to go back to a relatively small matter,
5		but I want to make sure that I have it clear.
6		Ms. Von Mertens asked you a question regarding
7		the impact of cell towers in the conservation
8		easement, and you said yes, it would be major.
9		I was kind of surprised by that. It seemed to
10		me that when she asked the question about cell
11		towers that you were possibly thinking of the
12		wind towers.
13	А	I may have.
14	Q	And let's ask the question again. Would the
15		construction of cell towers in conservation land
16		have a negative effect on the qualities that
17		make the conserved land important?
18	A	I think generally they probably would.
19	Q	Okay. Can you scale that in any sense? When
20		you say, maybe this was just too broad of a
21		question, but is it in your mind a major kind of
22		concern with the access road construction, ice
23		falling off the cell towers which happens, that
24		sort of thing? Is there any level of

	comparison?
_	_
A	Like with this project, it's very difficult to
	sort of speculate without knowing the piece of
	land, the purpose for which it's being
	conserved. So it will have some effect
	certainly and it could be significant. Beyond
	that, it's very hard to speculate.
Q	Have you been involved in any projects where
	cell towers have been proposed or constructed in
	conservation easement properties?
A	I have not.
Q	Turning to the update to the model that you
	passed out, your Exhibit, I believe, 15, and the
	graph on page 7 of your submitted testimony, I
	see that as a series of bars that are
	side-by-side bar graphs. In your recalculation,
	would the red bar in general be higher, lower or
	about the same? I'm just trying to get a sense
	of how much of a difference it would make as a
	proportional kind of thing.
A	Right. It's a good question, and I apologize
	for not having rerun that graph with the new
	data. I think the graph would end up looking
	very similar, just the magnitude of the numbers.
	A Q

1		
1		In other words, where these bars start relative
2		to the Y axis would be different but the
3		relative, you know, look of the graph meaning
4		that the ad valorem which is the red bar would
5		start high and go down lower over time, and then
6		the PILOT payment bar, the blue, would start out
7		at a much more level and gradual area and then
8		slightly increase over time. I mean, that part
9		of it wouldn't change. So I think the whole
10		graph probably would come down the scale a bit.
11	Q	To ask the question another way, would the
12		initial difference in the scale of the ad
13		valorem and PILOT bars be closer together at the
14		start in your revised model or would they be
15		further apart? Would there be a greater
16		difference?
17	А	From what I see from the numbers that I reran I
18		think the difference would look about the same.
19		I think the red bar starting out in year 1 would
20		be about double what the PILOT would be. Again,
21		the magnitude might be different. I'm not
22		positive of that, but that's what it looks like
23		from looking at the numbers.
24	Q	So what you're testifying to then is with more

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precise numbers there's a difference, but it is 1 2 a marginal difference? Is that a fair 3 characterization? 4 Α Probably so. 5 That's all I have. 0 6 PRESIDING OFFICER SCOTT: Commissioner 7 Rose? All set. 8 MR. ROSE: 9 PRESIDING OFFICER SCOTT: Ms. Weathersby? 10 BY MS. WEATHERSBY: 11 I'll try to be quick. I think you testified 0 12 towards the beginning, and it was so long ago I 13 may have misremembered, that the various towns 14 in the ConVal School District will be paying more because of the PILOT. 15 16 Than they would if there was ad А Excuse me. 17 valorem. 18 Okay. Thank you. My last question is the other Ο 19 affected communities which are the abutting 20 communities of Windsor, Stoddard, Nelson, Bennington, Hillsborough, Hancock, 21 Deering and, 22 of course, An sborough 23 Board of Comm est Regional 24 Planning Comm ent notice of

1		this and have had an opportunity to participate.
2		In that list, only the Stoddard Conservation
3		Commission and the Stoddard Board of Selectmen
4		are the ones that have come out in operation to
5		opposition to this project.
6	А	Excuse me. I think you received a letter more
7		recently from the Deering Selectmen as well.
8	Q	And the Deering Selectmen. I'm sorry. I'd
9		forgotten about that. I'm just surprised by
10		that, given the opposition of yourself and some
11		other Intervenors and, of course, the town of
12		Stoddard. Can you shed any light on why those
13		other communities, including the Antrim
14		Conservation Commission and the Town of Antrim
15		Selectmen, we know the Town of Antrim Selectmen,
16		why they're opposed or not opposed, do you know
17		why some of these towns have not participated or
18		commented other than Deering and Stoddard?
19	A	I can only speculate. If you'd like me to take
20		a guess I would be glad to try, but I don't know
21		for sure because I did not ask any of those
22		communities to participate. Some people may
23		have, but I did not. So I don't know firsthand.
24	Q	That's okay. Thank you.

	WITNESS - LEVESQUE
1	PRESIDING OFFICER SCOTT: Mr. Clifford?
2	BY MR. CLIFFORD:
3	Q Good afternoon. I had a question. Earlier you
4	said, I think I'm characterizing this correctly,
5	you said if the PILOT is not in place the town
6	would pay more than the other towns in the
7	ConVal School District.
8	A To the District.
9	Q To the District.
10	A Yes. Well, it would pay more than they're
11	paying now. Right? Because the formula for
12	payments to the District is based on, again,
13	this is the agreement within the ConVal School
14	District. It's 50 percent of that value is
15	based on the assessed value of the town. The
16	other 50 percent of the number of students in
17	the district. So based on that, if all of a
18	sudden the valuation at Antrim goes up, whatever
19	it is, if it's 11 million, 10 million, 12
20	million, 65 million in one year's time, and the
21	other valuations in the other towns don't
22	increase a whole lot, maybe just a normal
23	increase of a percent or less, then immediately
24	Antrim's 50 percent of their required payment

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1		based on assessed value goes up. Do you see
2		what I mean?
3	Q	Yes. I get that. And then you also, I think
4		you said that if the PILOT is in place, that the
5		other towns are going to pay more.
6	А	Well, they'd pay more compared to if the ad
7		valorem version of property taxes in Antrim
8		occur because that bill that passed, which again
9		I think is now 1549, allowed for the assessed
10		value for that purpose like in School Districts
11		to be based on the backed-out valuation of the
12		PILOT rather than full ad valorem tax valuation.
13		You see what I mean?
14		So, again, just like in Antrim, the model
15		shows that over time the town would get less
16		revenue during the life of the project than it
17		would with the PILOT agreement. The same thing
18		occurs with the other towns in the ConVal School
19		District for a similar reason.
20	Q	I think you might want to reconsider your
21		position on that because I think either way,
22		PILOT or ad valorem, the Town of Antrim is going
23		to be contributing substantially more with a
24		project than it would without a project. So in

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1		both instances the town is going to have to
2		contribute substantially more to the School
3		District. It's just a fact. Just the way the
4		numbers work.
5	A	I agree with you, yes, but it will pay a lot
6		more to the School District if it's under ad
7		valorem because the assessed value will be that
8		much higher than under a PILOT.
9	Q	Right, but your second statement didn't follow
10		from the first in your earlier testimony.
11	A	All right. My apology.
12	Q	I'm struggling here because I'm how do I have
13		any faith in the figures you gave if you can't
14		reproduce them, if you can't produce a model
15		that can be explained, tested, verified and
16		defended? So I don't know whether the numbers,
17		I mean, I'm willing to give you the benefit of
18		the doubt, but if all it is is an Excel
19		spreadsheet, and it's probably a cash flow
20		analysis with some changes in it, can you tell
21		me why I should believe any of the numbers
22		you've given us today? I don't understand where
23		you're coming from if none of us here can form a
24		basis for any of numbers you've given us.

1	А	I understand, and it's a good point. I will say
2		that. I tried to explain how the model works in
3		the handout that you have before you. My point
4		again on the highest level and why I did the
5		model was just to show that there is a
б		difference between ad valorem and PILOT, and in
7		this case the Selectmen have chosen not even to
8		know what that number is. Whether you believe
9		my numbers or not, I believe that anyone with
10		common sense will understand that there is a
11		difference between the two, and if there
12		weren't, Antrim Wind would not have signed a
13		PILOT agreement. They would not be signing an
14		agreement to pay more property taxes over the
15		life of the project. That would be crazy on
16		their part. So their signing a PILOT agreement
17		obviously is in their favor.
18		So whether my numbers are correct or others
19		are, the fact is that the town would get more
20		revenue under ad valorem, and, again, I
21		apologize for not being able to let you see the
22		Excel model, but it's something that my business
23		partners who I asked did not want me to share
24		with anyone.

1 0 I'll leave it at that. Okay. No more 2 questions. Thank you. 3 BY PRESIDING OFFICER SCOTT: So can you, obviously, there's been a lot of 4 0 5 discussion and your testimony also talked about 6 the PILOT versus ad valorem. For the Committee, 7 I can understand your view, and I can understand, to paraphrase it, I think one of the 8 9 issues would be perhaps the town's leaving money 10 on the table compared to what they would. 11 Yes. Α So connect the dots for me at the SEC. 12 Q Are you 13 suggesting that in our determination, does this 14 support the orderly development of the region 15 that if they had gone with ad valorem rather 16 than PILOT that sways that differently? 17 I think Antrim and the other communities in the Α 18 region would be better off if it was under ad 19 valorem because, again, we all know school costs 20 are so great on our tax bills and a full ad 21 valorem taxation affects the other eight 22 communities in the District. So yes, the 23 orderly development would be improved if this 24 project was taxed under ad valorem.

1	Q	But you're not suggesting it wouldn't be the
2		fact that they're suggesting they would go with
3		a PILOT agreement in itself means it's contrary
4		to the orderly development of the region. Are
5		you going that far?
6	А	Simply saying that it would be a better
7		situation relatively to orderly development if
8		ad valorem was chosen over PILOT.
9	Q	Thank you. Mr. Iacopino?
10	BY M	IR. IACOPINO:
11	Q	Thank you. If I understand, I'm just looking at
12		the bar graph that you put in your testimony,
13		and I understand that, obviously, it's not
14		accurate now that you have new numbers as far as
15		the numbers of it, but directionally, if I
16		understand your testimony, it would be the same
17		with your new full numbers?
18	A	I think the look of the graph would be similar
19		because under ad valorem you start out with the
20		valuation being the highest that it's going to
21		be in the life of the project. So that as the
22		depreciation kicks in, you're obviously going to
23		have those graphs go down over time, and we know
24		what the PILOT is because it's in the agreement.

1	Q	And that's, if we use your net number of
2		5,151,000 and change, if the project actually
3		existed for an additional five years, that
4		number would decrease, correct? The \$5 million
5		net tax revenue?
6	A	I think so. I think you're correct.
7	Q	So that if the project were to stay in existence
8		for 25 or 30 years, there is less of a
9		difference between the ad valorem and the PILOT
10		revenue.
11	A	That's probably true. I don't know. I didn't
12		run it that way, and I didn't try it that way.
13	Q	That was going to be my next question. Did you
14		try to run it out for any additional time?
15	A	No, because we've always been talking about 20
16		years here for this project.
17	Q	Okay. You mentioned, and I don't want to
18		nit-pick with you
19	A	Excuse me. But I will say that remember the
20		PILOT's not signed to last more than that.
21		Right? So it's hard to know what would happen
22		after the 20-year period since that's the
23		duration of the PILOT agreement as we now have
24		it signed.

1	Q	Good point. Thank you. You mentioned, and I
2		don't mean to nit-pick with you, but you called
3		this the largest development project in the
4		history of Antrim. Is that what you believe it
5		is?
6	A	I believe it is. I had the conversation with
7		former Selectman Eric Tenney whose family owns a
8		vegetable farm in town, and he is somewhat of a
9		historian of a lot of things in Antrim, and I
10		asked him that probably in 2011 if it was a true
11		statement that this would be the largest
12		development project in the history of Antrim,
13		and he agreed with me.
14	Q	And what were you basing that on?
15	A	Just the value of the project. Again, \$65
16		million in a development.
17	Q	Because I know you had a college there at one
18		point in time, 450 acres of land, if I
19		understand correctly. Was that considered at
20		all in your conversation?
21	А	Oh, yes. If we had Eric Tenney in here, you
22		would enjoy the conversation because he has a
23		lot of knowledge about those things. I remember
24		talking about those kinds of things, you know,

have	to	do	some	kind	of	present	value.
37	a						

Of course, to compare apples to apples, you'd

9 Q But you weren't talking about it then in terms10 of the acreage that it takes up.

oh, that's nothing like 65 million.

having that conversation with him.

11 A Physically, no.

Yes. Correct.

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12 Q I assume that there are other projects,
13 development projects in Antrim that disturb,
14 permanently disturb more than 11 acres of land?
15 A More than likely. Yes.

16 Okay. You also discussed the fact that there 0 are reservations in the conservation easements 17 18 for a house and a cell tower and a road. Tf T 19 understand correctly, if the owners of those 20 properties were to indeed try to pursue any of 21 those options that have been reserved, they 22 still have to go before your Zoning Board or 23 your Planning Board and get the approvals for 24 those?

was the next biggest one or whatever, and I

with him saying you know what comes next, what

think the college was in that group, but he said

I remember

1	A	Maybe. I'm not sure.
2	Q	Why would they not have to?
3	A	If it's a residence, for instance, using the
4		existing road that was built for this project,
5		up to that point, on the Ott property as an
6		example, that road would be an existing road.
7		Whether that would be considered a driveway at
8		that point or whether they would require the
9		owner to, in fact, bring it up to public road
10		standards, I'm not really sure, but it could be
11		just a building permit issue at that point. It
12		may not have to go through minor or major site
13		plan review. It might not have to go though
14		I don't know. I haven't looked at it that way.
15		It's a legitimate question, but I'm not so sure.
16	Q	What is a cluster development?
17	A	Cluster development is, which kind of is out of
18		favor these days, it was a creative way to
19		protect open spaces, part of development or
20		limited development where you've got a tract,
21		let's say you have a hundred acres, and the
22		zoning would allow for X number of houses to be
23		built on that, in terms of a subdivision you
24		could subdivide so many lots. As part of that

1		development, part of the land that was in that
2		original hundred acres would be essentially
3		permanently conserved as part of the
4		development. So you'd get a development and
5		then as part of that there would be some open
6		space that would actually have an easement on
7		it. So cluster development has been around for
8		quite a while. It was kind of in rage for a
9		while by planners, but it's not done all that
10		often.
11	Q	If I read correctly the master plan that you
12		submitted encourages cluster development in a
13		rural conservation district, is that right?
14	А	It could. Yes. It probably does. I don't have
15		it in front of me.
16	Q	I have no other questions.
17		PRESIDING OFFICER SCOTT: Okay. Mr.
18		Levesque, you had handed out what's prelabeled
19		as LA 17.
20		WITNESS LEVESQUE: So it would be 16.
21		(Exhibit LA 16 marked for identification)
22		PRESIDING OFFICER SCOTT: Okay. Thank you.
23		I think we're done with Mr. Levesque.
24		MS. ALLEN: Do we have redirect?

1		PRESIDING OFFICER SCOTT: Yes. Let's do
2		that.
3		REDIRECT EXAMINATION
4	BY M	IS. ALLEN:
5	Q	Isn't it true that the New Hampshire legislature
6		changed, the change that was made a few years
7		ago was needed to bail out towns with PILOTs
8		that encouraged significantly higher county
9		taxes increases due to increased in valuation?
10		Do you know if this was the case in Groton, New
11		Hampshire?
12	A	I'm not sure, but I do know that that
13		legislation did come out of that phenomenon.
14	Q	And would you be surprised to know that the
15		increase for Groton in the county portion of the
16		taxes went from \$109,000 to \$300,000 a year?
17	А	I don't know that, but I'll take your word for
18		it.
19	Q	Thank you.
20		PRESIDING OFFICER SCOTT: All set? So
21		thank you, Mr. Levesque. So my understanding
22		from the Committee is we will lose a quorum at
23		5:30 is my understanding. So what we'd like to
24		do is take a real five-minute break so before we

3 next and then Ms. Linowes. I'm fine if you two want to switch. I don't know if there's a 4 preference between you two. No matter what happens tonight I MR. WARD: 7 will not be here on the day before the election. PRESIDING OFFICER SCOTT: Understood. MR. WARD: Period. Not negotiable. Now, I 10 have a suggestion. Whether you buy it or not. 11 I would be willing to do all of my testimony 12 written provided it's taken as evidence, not 13 like a brief, and provided then there's a time 14 for everybody to ask me questions and for me to 15 respond. We have the email arrangement to do 16 I have no idea whether it's legal, but I it. 17 believe you could do almost anything you want. 18 PRESIDING OFFICER SCOTT: So, again, you've 19 already --20 MR. WARD: I'm not going to finish by 5:30. 21 Period. 22 PRESIDING OFFICER SCOTT: Well, why don't 23 we start with you when we get back from our 24 five-minute break and see how far we can get. NORTH COUNTRY COURT REPORTERS West Lebanon, New Hampshire 03784 northcountrycr@gmail.com (603) 443-1157

WITNESS - LEVESQUE

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do that, I have, obviously, we have by order of

what we had agreed to earlier would be Mr. Ward

1 It's suggested that some may be able to go 2 longer than that, some people are suggesting, 3 but we are going to lose at least one person. 4 I'm not interested in you submitting testimony. 5 There was already a time for that, so I'm not, 6 we're not going to start that all over again. 7 MR. WARD: Say again? 8 PRESIDING OFFICER SCOTT: I'm not going to 9 let you submit new testimony. We're already 10 past that point. This is a chance for people to 11 ask you questions about your testimony, not, 12 anything you've previously done, not moving 13 forward. 14 MR. WARD: So what happens when we run out 15 of time? Let me just make a statement. I know 16 it's not going to go over happily, but I will 17 take the same number of urges to move it along 18 as you gave to Mr. Richardson. Which was zero. 19 PRESIDING OFFICER SCOTT: So we'll get back 20 from our break quickly, please. 21 (Recess taken) 22 PRESIDING OFFICER SCOTT: We're back on the 23 record. Could you swear Mr. Ward in, please? 24 DR. FRED WARD, DULY SWORN

1		DIRECT EXAMINATION
2	BY I	MR. IACOPINO:
3	Q	Dr. Ward, do you have in front of you a document
4		dated May 21, 2016, bearing the title Prefiled
5		Direct Testimony of Dr. Fred Ward on behalf of
6		the Meteorological Intervenors?
7	A	I do.
8	Q	Is that your Prefiled Testimony in this case?
9	A	It is.
10	Q	And do you adopt that testimony today?
11	A	With some changes.
12	Q	Okay. You did not have any Supplemental
13		Prefiled Testimony, correct?
14	A	That's correct.
15	Q	Please tell us what changes you are going to
16		make to your Prefiled Testimony, if you could go
17		page by page, please.
18	A	The main change is that if we go to the top of
19		page 2, the second question. That whole
20		question and answer now is now moot because I
21		have to congratulate Mr. Kenworthy in getting
22		the Mass. General Hospital to buy the other 70
23		percent of his power. Since he has now sold 100
24		percent of it, while what comments I made are

still valid, they're moot. 1 2 Was there any other changes? 0 3 Α The response from the Applicant dated the 28th 4 of September to a request for information and a 5 pending response from the Applicant, the first 6 requires a response from me as part of my 7 testimony, and the second may very well. 8 When you say the response, you're talking about 0 9 the response to the Site Evaluation Committee's 10 data request that you have marked as Abutter 45? 11 Is that correct? 12 Α Is that the one that says: Please provide 13 information to determine percent probable 14 sunshine? 15 That's the one? 0 16 That's the one then. Α 17 And this changes your testimony? Or amends your 0 18 testimony? 19 Α Well, I have a response, I have a response to 20 that response which can either be handled by 21 questioning from any of the audience or I can 22 make a response to it now. 23 0 You're expecting somebody's going to ask you 24 about it?

WITNESS:

WARD

WITNESS: WARD

1 Α Yes. 2 Why don't we just then proceed then. 0 3 MR. IACOPINO: He's ready for 4 cross-examination. 5 PRESIDING OFFICER SCOTT: Audubon? Ms. б Linowes? 7 CROSS-EXAMINATION BY MS. LINOWES: 8 9 Thank you, Mr. Chairman. I don't have a 0 Yes. 10 lot of questions, but Dr. Ward, as a 11 meteorologist is it likely that New Hampshire 12 ridgelines will develop ice over the course of a 13 year? 14 Say again? А 15 Is it likely that New Hampshire ridgelines will 0 16 develop ice over the course of the year? 17 Absolutely. Α 18 We've had some considerable talk about the Ο 19 possibility of ice bidding up on the blades, do 20 you recall that? 21 А Yes. And you're also aware that the turbines are 22 0 23 equipped with some turbine controlled monitoring 24 system that can detect vibration of the

1		turbines?
2	A	Well, I've heard testimony about some kind of a
3		system. The details of it and how it would work
4		are quite unknown at this stage. I assume that
5		something will happen with the blades that they
6		accumulate ice, and somehow or other the ice
7		will either be melted or thrown off it, but it's
8		very difficult from any of the testimony to find
9		out what the factors are which will determine
10		when something happens to alleviate the ice
11		problem, and there's been no testimony as to how
12		often they expect it, what it looks like, how
13		severe it is, what the shape of the ice is
14		that's thrown off and so forth.
15		But I understand there's an icing problem,
16		but I don't know how to handle it without a lot
17		more information which we don't seem to be able
18		to get.
19	Q	Okay. So just being told that it has been
20		observed that ice has been thrown 250 meters or
21		820 feet doesn't tell you enough?
22	A	Well, what it tells me is it's phony. That's
23		the first thing it tells me. I can't say how
24		far it's thrown, but a blade traveling at 200

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miles an hour on the top of a turbine which is almost 500 feet above a ridge which is already above the surrounding land and to say that that's only going to go 250 meters when it's already going 100 meters per second, in two and a half seconds it's going to go the 250 meters.

Moreover, it doesn't necessarily have to fly off when it's going from the top and going across. It can easily have done it on the swoop up so not only would it be thrown out but it would be thrown up, and hence, it's going to take longer to reach the land.

13 But even more important than that, and 14 again, I'm proceeding only on the basis of the 15 information that I have, icing on structures 16 will almost always accumulate in long sheets 17 against it. One has to assume then that when 18 it's thrown off it's going to be in sheets. 19 When I say sheets, they will have a large 20 horizontal extent for a small vertical extent. 21 I've skimmed stones across a pond that have a 22 smaller ratio than that, and I would be 23 absolutely amazed if these things didn't sail. How far they can sail, I have no idea, and there 24

is no way of calculating it without knowing what 1 2 the shape of the pieces are. 3 Q You seem to indicate that there is at least some 4 physics behind it so can you estimate distance? 5 Well, Mr. Needleman showed an understanding of Α 6 tech stuff the other day when he stopped the testimony about how far things could get thrown 7 because he said there would be air friction and 8 9 I was surprised. An attorney being able to say 10 that is mind-boggling. 11 MR. NEEDLEMAN: I was surprised, too. 12 Α But he's right. There is air friction. But air 13 operates two ways. It operates not only to try to slow it down which it will, as Mr. Needleman 14 15 said, but it also allows it to float. And as I 16 said, these things are going to have a large horizontal extent for a very narrow vertical 17 18 They are going to fly. Anybody that extent. 19 thinks that a 100-meter-per-second, 20 200-miles-an-hour thing going 100 meters per 21 second is going to hit the ground in two and a 22 half seconds, even I think Mr. Needleman's 23 technical training would make that questionable. 24 I cannot nor can anybody say how far the

1		they ought to go and I'm not trying to do that
2		here. All I'm saying is it doesn't pass the
3		laugh test. There's got to be ice all over the
4		place, long distances, and, in addition, it's
5		going downhill which gives it even more time to
6		float. These things are at the top of the hill.
7		250 meters doesn't pass the laugh test, but I
8		can't tell you how far it is.
9	Q	Dr. Ward, is it also true that the wind will be,
10		if the wind is strong enough to be turning the
11		blades the wind, not just air but the wind could
12		carry the ice, is that what you're saying?
13	А	No, no. No. Because the throw-off from the
13 14	A	No, no. No. Because the throw-off from the blade will be at right angles to the wind. The
	А	
14	А	blade will be at right angles to the wind. The
14 15	А	blade will be at right angles to the wind. The turbine is going to face into the wind, going to
14 15 16	А	blade will be at right angles to the wind. The turbine is going to face into the wind, going to be going this way or that way. But either way
14 15 16 17	А	blade will be at right angles to the wind. The turbine is going to face into the wind, going to be going this way or that way. But either way it's going to throw stuff off to the side. But
14 15 16 17 18	A	blade will be at right angles to the wind. The turbine is going to face into the wind, going to be going this way or that way. But either way it's going to throw stuff off to the side. But the interesting part of that is is that it's
14 15 16 17 18 19	A	blade will be at right angles to the wind. The turbine is going to face into the wind, going to be going this way or that way. But either way it's going to throw stuff off to the side. But the interesting part of that is is that it's going to throw it and then it's going to take
14 15 16 17 18 19 20	A	blade will be at right angles to the wind. The turbine is going to face into the wind, going to be going this way or that way. But either way it's going to throw stuff off to the side. But the interesting part of that is is that it's going to throw it and then it's going to take off. In addition, it will have wind in its
14 15 16 17 18 19 20 21	Q	blade will be at right angles to the wind. The turbine is going to face into the wind, going to be going this way or that way. But either way it's going to throw stuff off to the side. But the interesting part of that is is that it's going to throw it and then it's going to take off. In addition, it will have wind in its sail. Isn't that how the expression goes? Have

1		snowing. Does that tell me that it could
2		develop ice even in the summertime on these
3		blades?
4	A	Well, the interesting part of it, I can't quite
5		answer that because we've had snow here fairly
6		late into the season. The only real data that
7		we have on icing is basically at sea level or a
8		little above and then we have Mount Washington.
9		Now, there's not much in the way of icing at sea
10		level. We get it occasionally. Some freezing
11		rain and it brings the wires down and
12		everything. On Mount Washington they have snow
13		and ice all yearround. I don't have any data at
14		2000 or 2500 feet which is the elevation that
15		these blades are going to be operating at, nor
16		do I have a very important piece of information
17		which is these blades aren't sitting there.
18		When you're on Mount Washington, the wind is
19		blowing them by and they're sitting there. We
20		now have a situation where these are moving.
21		Now, this would be probably an accumulation of
22		supercooled water or whatever, and it's bound,
23		but I don't have the data on it, to pick up a
24		lot more ice because they're spinning at 100,

WITNESS: WARD

1		200 miles an hour. I don't know of any data,
2		now they may have some but it has not been
3		presented, and the point being that the
4		testimony by Antrim Wind is that it only,
5		they've only found it, I guess, I don't quite
6		remember the name, the exact words, but they've
7		only found it out to 250 meters.
8		Does that mean that it's only gone that
9		way? I don't think you could get one
10		meteorologist in a thousand who would ever agree
11		that that would happen, and he might bet on it
12		and lose his shirt. The point being that the
13		accumulation of ice on a moving blade at 200
14		miles an hour, unless the wind industry has
15		gotten this information, I don't know where I
16		would find it. It doesn't exist in the
17		meteorological literature.
18	Q	I just want to ask you about ice. I'm trying to
19		get a sense of the time frame. So icing
20		certainly can occur during the winter months.
21		Icing can occur potentially during the fall and
22		early spring months.
23	A	Well, you could get icing in the middle of
24		summer, not necessarily because the temperature

1		was below freezing but evaporative cooling. If
2		you know if you wet your hand and do this with
3		it, it's a lot colder. So we're looking at the
4		blades. They could be accumulating water at
5		above freezing and because of the rate of speeds
6		that they're going and the evaporative cooling
7		you can get icing then. I don't know, again,
8		these are peculiar structures. The
9		meteorological data does not cover those things,
10		but I would be surprised if we couldn't get ice
11		in the middle of summer. Not often.
12	Q	You would not be surprised?
13	А	I would not be surprised.
14	Q	Now, on day 7 of the hearings, this is in the
15		afternoon, Mr. Kenworthy was asked by one of the
15 16		afternoon, Mr. Kenworthy was asked by one of the Committee members, this was in regard to the 250
16		Committee members, this was in regard to the 250
16 17		Committee members, this was in regard to the 250 meter throw of ice. He said, the question was,
16 17 18		Committee members, this was in regard to the 250 meter throw of ice. He said, the question was, could you give me a little perspective on the
16 17 18 19		Committee members, this was in regard to the 250 meter throw of ice. He said, the question was, could you give me a little perspective on the safety measures to ensure that you wouldn't have
16 17 18 19 20		Committee members, this was in regard to the 250 meter throw of ice. He said, the question was, could you give me a little perspective on the safety measures to ensure that you wouldn't have ice throw of that significant distance. And Mr.
16 17 18 19 20 21		Committee members, this was in regard to the 250 meter throw of ice. He said, the question was, could you give me a little perspective on the safety measures to ensure that you wouldn't have ice throw of that significant distance. And Mr. Kenworthy gave a couple of mitigations that are
16 17 18 19 20 21 22		Committee members, this was in regard to the 250 meter throw of ice. He said, the question was, could you give me a little perspective on the safety measures to ensure that you wouldn't have ice throw of that significant distance. And Mr. Kenworthy gave a couple of mitigations that are in place, one being that if the anemometer were

1		monitoring system that would sense an unusual or
2		excessive vibration, potentially produced by
3		ice. But he did say this as well. This is on
4		page 32 of the transcript. He said, I don't
5		think I can say that it's possible to prevent
6		any likelihood of ice potentially traveling that
7		far. So it can happen.
8	А	I would be surprised if it didn't. And fairly
9		often.
10	Q	He went on to say, I think it's extremely
11		unlikely that any type of significant fragment
12		of ice is going to travel that far.
13		So I wanted to focus in on the word
14		significant there. That can mean large, it can
15		be small and heavy. I don't know what the word,
16		how to interpret significant, but in any event,
17		does a fragment, ice fragment flying off a blade
18		have to be significant to cause a public risk?
19	А	Well, we'll go back again, we're going to get
20		large flat pieces of ice which if you get hit in
21		the neck, you lose your head. They're traveling
22		very rapidly. I don't know whether it's ever
23		happened. I have no data either way on it. I
24		would be damn scared if I thought there was ice

flying off one of these things to be anywhere nearby.

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3 In addition to that, there's another 4 meteorological factor which comes in, and, 5 again, I can't totally evaluate it. Icing will 6 occur on the blades preferentially with winds 7 from the north and northeast. No question about And I don't have any data but I mean I 8 that. 9 just can't imagine it would be different. Most 10 of the ice melting and throwoff will happen with 11 winds probably from the southeast and south. So 12 certain neighbors in certain directions are going to hit with a lot of ice and other 13 14 neighbors will probably never have it. 15 Dr. Ward, I just want to interrupt you for a 0 16 second because I want to understand --17 I'm sorry? А 18 I want to interrupt for a second because I'm 0 19 trying to understand the direction you're 20 talking about. So if the wind is coming from the south southeast --21 22 Α The blades are facing orthogonally to the 23 southeast so you would see, in the southeast, you would see the full extent of the blades. 24

1	Q	Okay, and then so the, those properties
2		potentially would be somewhat on the west side?
3	A	Northeast and southwest. They would be the most
4		one more often than not at risk.
5	Q	Okay. And this is, this would be property
6		owners, okay, this is ice falling on to an
7		adjacent property, but also, if I may ask, I
8		believe that Antrim Wind has discussed signage,
9		I'm trying to remember the exact distance. I
10		want to say 750 feet for signage, and forgive me
11		if it's 500 or 750 because it's somewhere in
12		that range, to stay away from the turbines and
13		is that, do you think that's sufficiently
14		protective?
15	A	That doesn't even start. More important than
16		that, I mean not only is it a safety issue with
17		people being hurt, nuisance of having it fall on
18		your roof or worse, if anybody looked at the
19		meteorology of it, they wouldn't want to have a
20		structure in those two directions. It would be
21		crazy.
22	Q	Now, Dr. Ward, Mr. Kenworthy goes onto say after
23		talking about this significant fragments, he
24		goes but there are, you know, rime ice build up

	-	
1		on operation that will build up and will shed,
2		and it's a normal part of the operation of wind
3		turbines in climates like this.
4		So it sounds like there's a distinction
5		between, rime ice is a certain kind of ice that
6		may be problematic. Sounds like that's what
7		you're talking about as well. Can you explain
8		what rime ice is?
9	А	Well, rime ice, and I'd have to get the
10		meteorological glossary out which I have under
11		the table. There are two kinds of ice you can
12		get. You can get what we would call supercooled
13		ice. If we get freezing rain, for example,
14		here, and you see the ice on the wires and the
15		trees and everything, that comes about from
16		water drops which are actually below freezing
17		but still liquid. They're supercooled. They
18		stay liquid until they hit a surface in which
19		they immediately make ice and they make a very
20		nice clear sheet of ice, and if you've ever seen
21		them on the branches of tree you can see the
22		branch right through them.
23		Then there's ice which will form which is
24		sort of an icy thing in the air, the rime ice

1		thing, if you've seen the pictures, for example,
2		on Mount Washington, you see these things it
3		looks sort of like frozen snow which is sort of
4		what it is. They're ice crystals which have
5		just blown against it and they stick.
6		I don't know which kind you're going to get
7		mostly on the blades. I'm sure that the
8		industry knows what they are. If they don't,
9		then they ought to be out of business. So I
10		don't know which kind of ice we're talking
11		about.
12		Probably both.
13	Q	He specifically called out rime ice, and I think
14		that has been brought up in the past because of
15		the uniformity with which rime ice forms on the
16		blade so as not to cause vibration.
17	А	Well, any ice that you get is going to form
18		preferentially on the tip of the blade. The tip
19		of the blade is going ten or 100 times the speed
20		towards the root and so whatever, whatever the
21		process is, whether it's rime ice, clear ice or
22		whatever, is going to form preferentially on the
23		faster part of the blade so you're going to end
24		up with a blade, but I don't know what an extra

1		weight on the end of the blade tips, what that
2		does. I don't know whether it vibrates, I don't
3		know whether it causes it to do anything, but
4		that certainly will make an imbalance. Is that
5		detectable? I don't know.
б	Q	Dr. Ward, I think, believe that the suggestion
7		is that all three blades will build up uniformly
8		so over time it may slow the blade, slow the
9		system down.
10	A	I don't think that's a, that may be true, but it
11		is not obvious. The thing that's obvious is
12		there's going to be a preferential accumulation
13		towards the ends of the blades. Now, also, the
14		ends of the blades are the places that are going
15		to throw the ice because they're going faster.
16		So I don't know what the net of it is. Will it
17		make it such that there's an accumulation and
18		then one blade will throw ice? I have no idea.
19	Q	Now. Dr. Ward, the Groton Wind Project, they
20		filed an environmental health and safety plan as
21		part of that project when it was approved by the
22		Site Evaluation Committee. I'd like to read to
23		you what that document says about icing and get
24		your thoughts on that. Is that okay?

1	A	Yes.
2	Q	It says ice that has formed on a wind turbine
3		typically sheds as the air temperatures rise.
4		However, cases have been documented when ice
5		shedding occurred without a temperature rise.
6		Shedding ice may be thrown a significant
7		distance as the result of the rotor spinning or
8		wind blowing the ice fragments. Icing of blades
9		is a significant issue that during shedding
10		poses a risk of injury and property damage.
11		Everyone is reminded that at any time when icing
12		may potentially occur there's no replacement for
13		using constant vigilance in assessing your
14		surroundings.
15	А	Sounds fine to me.
16	Q	You agree with that?
17	А	Yes. Absolutely.
18	Q	But there is no alarm that goes off for the
19		public when icing occurs. So would you agree
20		that people who work at a facility would be able
21		to recognize the instances of potential ice
22		throw but would the public have an understanding
23		of that?
24	А	Well, unless they were doing something, it's

likely that icing would -- icing is going to 1 2 occur much more often on the blades than on the 3 trees and the grounds and the wires and 4 everything else around it, just because the 5 blades are moving. So whatever it is that's 6 producing the ice is going to happen faster, sooner and more often on the blades than on 7 8 anything else.

9 Now, in addition to that, the icing is 10 going to occur more often, heavier, more 11 frequently, out farther on the blades than at 12 the root. I don't know what that does, whether 13 that slows things down, but it's going to be 14 like dragging a big thing of metal around or 15 whatever it is, and I don't know what they do to 16 detect it. As far as the comment about yes, 17 they accumulate and they shed, I would certainly 18 expect that. I can't believe that you would 19 just have nice ice and it would just stay there 20 until it decided for some reason or other to go, 21 and it's not likely three blades will throw ice 22 at the same time.

23 Q Okay.

24

A So I don't know quite what's going to happen

1		with it, but no matter what it is, no matter
2		what kind of ice it is, no matter when it
3		happens, the stuff that's thrown off is going to
4		be like a saucer. It's going to be bigger than
5		it is thicker. I hate that kind of stuff
6		around.
7	Q	And Dr. Ward, I have two more questions for you.
8		Just one last one about ice. I want to read,
9		this is from, I just want to read you, anyway,
10		I'll just tell you that it has been reported in
11		other cases in the State of Vermont in
12		particular there have been complaints that have
13		been filed because there was additional noise
14		coming from the operating wind project due to
15		ice buildup on the blades. Are you familiar
16		with how, with something like that, that actual
17		blades, ice on the blades causes inefficiencies
18		in the turbine itself and therefore increases
19		the noise?
20		MR. NEEDLEMAN: Do you have a specific
21		reference to support that?
22		MS. LINOWES: Yeah, I do, but I never
23		entered it into the record. This would be the
24		Deerfield Wind energy facility, the noise study

1		that was prepared on behalf of the Applicant. I
2		could read you the footnote that's in there.
3		MR. NEEDLEMAN: I think without that in
4		front of everybody and being able to look at it,
5		I'm not sure of the value of it.
6	Q	That's okay. I'm just asking the question.
7	А	I could answer the question without seeing it.
8		It's so obvious.
9	Q	If that's okay. The question stands without the
10		reference.
11	A	There would be three, two or three things that
12		would be happening or can happen. One of which
13		would be icing and so forth. The other thing,
14		any kind of thing that would impair the smooth
15		operation will almost always cause vibrations.
16		Almost anything. And that's been known in
17		engineering, that's what you look for. When you
18		see some kind of an imbalance, you do everything
19		you can to correct it. So that anything that
20		would cause an imbalance which would include
21		differential icing, it would include the
22		windmill responding to a change in wind
23		direction in the time it takes to turn into the
24		wind, it's going to vibrate. There's no

1		question about it. I can't believe that you
2		could construct a system that was so
3		aerodynamically smooth that in the process of
4		doing this it didn't vibrate.
5	Q	Dr. Ward, just going back to the transcript for
б		a second. When Mr. Kenworthy was explaining the
7		turbine condition monitoring in terms of
8		detecting vibration, he said it, TCM, detects
9		vibrations at numerous locations around the
10		turbine, and if there are any, you know, some
11		vibrations obviously are normal, and there are
12		ranges outside of which they can become
13		abnormal. And that it's that abnormal, that
14		condition that will trigger the turbine to shut
15		down.
16		So if there are, if there is ice buildup on
17		the blades to create vibration but not, we don't
18		know what that tolerance is to the point where
19		it goes from normal to abnormal.
20	A	No. They obviously have some cutoff thing. I
21		wouldn't know what it was. I'm sure the
22		manufacturer would say if it shakes enough, shut
23		it off.
24	Q	That's exactly what Mr. Kenworthy is saying.
	f	$C = 2015 - 02$ [Day 11/Afternoon Session ONLY] $\{10 - 200 - 16\}$
	201	T (ULD-U/) U2V /ATTOTNOON GARAION (NULVI / UL-200-14)

1		You know. The question is, if it's still, if it
2		has ice on it and it's vibrating and still
3		operating, is it potentially going to produce
4		more noise?
5	А	You're going to have ice on it a lot. Okay?
б		We're talking about wintertime in Antrim sitting
7		at 2000, 2500 feet. You're going to get icing
8		quite a bit, and you're going to get it
9		sometimes under high winds and low winds and
10		things, and it's going to always collect
11		differentially. Now, does extra weight on the
12		tag end of all three blades equally, does that
13		produce a vibration? I have no idea.
14	Q	Okay.
15	А	Okay.
16	Q	So Dr. Ward, one last question for you. You
17		have raised in your testimony the concerns about
18		the appearance of the turbines. The fact that
19		they're spinning, they'll be very noticeable, is
20		that true?
21	А	Yes.
22	Q	And you have said something to me once a while
23		ago which struck me, and I wanted to ask you for
24		your comments on this. You said that when a

1		turbine blades or the tower, it accumulates
2		moisture even in a warm weather so it's just dew
3		on the blades and on the tower, it actually
4		becomes quite reflect, I think that's what you
5		said, it becomes much more apparent. The bright
6		white.
7	A	That's correct.
8	Q	Can you talk about that and what you're talking
9		about and how physics of that applies to what
10		people perceive and hence the visual impact?
11	A	Well, this gets down to the question which was
12		discussed about noise because it applies to
13		light. A water surface like an ice surface is
14		almost totally reflective of light. It's almost
15		totally reflective of sound, too. When you look
16		at the blade, it's going to not only go into
17		clouds and clouds are going to, we're going to
18		have clouds floating through. We're going to
19		have occasionally when you'll be able to see oh,
20		look at that cloud that obscured the thing and
21		then it moves on. That's going to leave a
22		deposit on the surface.
23		In addition, the fact that it's moving is
24		going to cause some evaporative cooling, and

1		there's going to be some condensation on it. I
2		don't know how much or how often, but whenever
3		it's wet, it's going to be totally reflective of
4		light falling on it. What that means is you're
5		going to get flashes or reflections or whatever
6		from the sun or the moon or whatever it might
7		be. There's no question, wet surfaces including
8		turbine blades are a hundred percent reflective.
9		And, I'm sorry, at low incidence angles which
10		are most of them.
11	Q	So when I drive down 93 and I look over and see
12		Groton Wind, there are days when it's extremely
13		bright, white, white turbines and other days
14		it's not so bright. That's what, potentially
15		what you're talking about.
16	A	Well, no, that could just be the angle of the
17		sun. These blades, when I asked for what the
18		blades looked like, I got a picture back.
19		That's the best I got. And looking at it it's
20		obviously been designed aerodynamically so it
21		produces the most power for the most turbine and
22		if it isn't, they need to get rid of the
23		manufacturer. So I'm assuming that it's done
24		aerodynamically. Airplane propellers, if you

1	ever remember back to when there were
2	propellers, not jet engines, they were always
3	designed with different curves and shapes and
4	things like that to maximize the value you get
5	out of them for the same amount of spin.
6	Things like that obviously have curves. So
7	they're going to concentrate light sometimes and
8	you're going to get all kinds of things off
9	them. I, without having seen one, and had some
10	idea about what the aerodynamic curvature was,
11	all I would know is you're to get sun glints,
12	reflections and things off them.
13	Q Okay. Thank you very much. Thank you,
14	Mr. Chairman.
15	PRESIDING OFFICER SCOTT: Levesque/Allen
16	group. Anybody? Any questions?
17	MR. LEVESQUE: No questions.
18	MS. ALLEN: No questions.
19	PRESIDING OFFICER SCOTT: Mr. Block is not
20	here. Ms. Berwick?
21	CROSS-EXAMINATION
22	BY MS. BERWICK:
23	Q One more question about icing. As things stand
24	right now, I will be able to walk straight back
	$\{\texttt{SEC 2015-02}\}$ [Day 11/Afternoon Session ONLY] $\{10-200-16\}$

1		to the back of my property and right up to the
2		turbines after, I guess, climbing gullies or
3		mountains of roads, but there will be no fences
4		around the turbines, only around the main
5		entrance. Obviously, others will be able to do
6		the same thing including children as we heard
7		about the Schaefers' children hiking through the
8		woods to go to the lakes and hunters. In
9		regards to icing, do you think that this is a
10		concern?
11	А	Well, I wouldn't want to go near them. As I
12		said, the ice throwoff, I'm not talking about
13		the icing itself, whatever it gets thrown off is
14		almost always going to be flat and big and it's
15		going to sail and if, it could cut your head
16		off. I mean these things are going at 50, 60,
17		100 miles an hour, and they're going to have
18		jagged edges, almost for sure. I wouldn't want
19		to be anywhere nearby. How far they'll go, I
20		still can't tell you, but 250 meters is
21		ridiculous. It doesn't pass the laugh test.
22	Q	A member of the Committee made a data request,
23		and it involved being informed of what was used

1		having a hard time figuring out how to word this
2		so I'm going to say it again a different way.
3		At which point flicker could occur. In other
4		words, there must be some point in a shadow
5		flicker control program that recognizes there is
6		enough sunlight to create flicker, and so
7		there's some number or some percentage. Antrim
8		Wind Energy was asked to provide information on
9		what that number or cutoff was. Did you receive
10		any information about that request?
11	A	Yes. I got back a response from Antrim Wind and
12		it's in one of the exhibits that were handed
13		out.
14	Q	Not about the percent sunshine. About, you're
15		talking about how they fixed the percent
16		sunshine?
17	A	That's correct. I thought that's what you
18		were
19	Q	No. I'm talking about how, how they figure at
20		what point flicker happens. Like, you know,
21		when they had this shadow flicker control
22		program, at some point, they're measuring the
23		sunshine. There was a request made by one of
24		the Committee members. Do you remember that

1		request?
2	A	I don't remember that one, but let me respond to
3		what I believe.
4	Q	I'll ask you about that one.
5	А	Okay. Which one do you want the answer to?
6	Q	You didn't receive any data either? Because I
7		didn't receive any.
8	А	I don't remember that, but my memory was never
9		good when I was 20, and it hasn't improved with
10		age.
11	Q	Okay. Is there noticeable flicker from
12		moonlight?
13	А	Pardon?
14	Q	Would there be shadow flicker from moonlight?
15	А	Yes, there would, especially around full moon.
16		The moon/sun arrangement is such that there's
17		very light from the moon when it's crescent up
18		to first quarter and after, and then the amount
19		of light that you get back from it increases
20		dramatically. You can see the full moon through
21		high, thin, serous clouds. So this gets back to
22		this question of how much does it take to
23		experience flicker. Now, if you'd like me to
24		answer that, I've got a long answer to it.

Wait until I get there, okay? 1 Q 2 Yesterday you had many questions for 3 Mr. James about Antrim Wind Energy's calculation 4 of noise. What was the bottom line of those 5 discussions? 6 Α There's a number of bottom lines, but the bottom 7 of the bottom lines is pretty simple. Site 8 301.18(c)(1) is the one that says that they use 9 ISO 9613-2. I have problems with that, but 10 that's not my big problem. SEC, the site 11 301.18(c)(3) states that they have to determine 12 the worst case for noise. I want to say this 13 slowly and carefully. They never did it. The 14 Application is incomplete. Worse than that, 15 they never acknowledged that they didn't do it, 16 and they never even decided or tried to find out 17 what the meteorology was that would produce the 18 worst case noise. You can argue that as 19 Mr. James said they didn't do the standard 20 That's a lot of -- that's a serious testing. 21 problem. They have no idea how about wind speed 22 and sheer and how those affect it. They didn't 23 even, Mr. O'Neal didn't even know what ducting 24 I tried to show him in the meteorological was.

WITNESS:

WARD

glossary, and that seemed to me that was the 1 2 first time he heard about it. I don't know how 3 anybody, how a meteorologist can possibly talk 4 about noise and the meteorological effects on 5 producing noise and not know what ducting is. 6 And then there was this question about the 7 G factor. Anybody, any competent meteorologist 8 that's ever seen a satellite picture in the wintertime over a deciduous forest, our 9 10 beautiful maple trees are deciduous, and if you 11 look around Antrim, yes, there are everyreens, 12 but most of the trees you see are deciduous so 13 for 7 months of the year there are no leaves on 14 the trees and a satellite picture taken in the 15 daytime will show not a lot of trees, not a lot 16 of wood has Mr. O'Neal keeps saying, it's going 17 to show you snow. 18 Now, if you go into the weather records you 19 will see the evidence that snow pack, and we 20 have a snow pack, what, 3 or 4 months of the 21 year here? I don't know what the average is but 22 3 or 4 months. Many of those days, maybe half

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{SEC 2015-02} [Day 11/Afternoon Session ONLY] {10-200-16}

or enough warmth and temperature to melt the

of them, either through rain falling on the snow

1	surface along with a little sunshine, and then
2	it refreezes, and how many times have you gone
3	out and you poke your way through. It's hard on
4	the surface and then a nice snow underneath. We
5	get ice-covered snow packs often. Ice is a
б	total reflector of noise, and the amount of
7	obstruction in a deciduous forest is minor.
8	So any claim that it's going to not be near
9	zero, the G near zero, just is totally at
10	variance with the meteorological information.
11	You're going to get snow packs many days, many
12	weeks, many months in a row. You're going to
13	get ice on top of it, and the sound is going to
14	bounce through it, you know, like a bouncing
15	ball. How much difference that makes over when
16	you change 0.5 to 0.1 or somewhere nearby, I
17	can't tell you. But Mr. O'Neal, I mean
18	Mr. James has done things, and he said I believe
19	if I remember correctly, it can be five, ten or
20	15 dB. That's the problem, but it's not a minor
21	one. We're talking about snow-covered land, ice
22	sheet, ice on top, and sunlight, and you just,
23	it does a beautiful job and the noise will
24	always bounce off it.

So you get a nighttime inversion which is 1 2 assumed with a cap on the top. You get the 3 bottom with the nice reflector. It's the 4 perfect duct. And I mean a duct like these 5 Now I don't know whether anybody here ducts. 6 has been on a Navy ship, they have these sound 7 tubes because they never go wrong. It's just sending it through and it will go for half a 8 9 mile. You hear the whisper at the other end. Because the sound is confined. The opposite of 10 11 that is in the daytime when the sun just goes 12 everywhere. And maybe you've noticed that in 13 the morning, about 7 o'clock in the morning when 14 you wake up things seem a little noisier than at 15 other times of the day. They are noisier, not 16 because there's more noise but because that's the time when the maximum inversion happens. 17 18 You get at, 7 o'clock in the morning you will 19 hear things you won't hear any other time of the 20 That's the way the thing works. dav. The 21 meteorology makes the -- if you're sitting out 22 here and for the same sound, exact same sound, exact same distance, the difference between an 23 inversion and the other where it goes over is a 24

1		factor of ten. It just makes an enormous
2		difference, and that's not in the model.
3		They're told to use ISO 9613-2, and it says it's
4		for, I think the word was reasonable
5		meteorological conditions. What that says to me
6		is all the unreasonable ones it's going to be a
7		hell of a lot louder, and generally reasonable
8		means about average. Well, then half of them
9		are going to be louder and half of them are
10		going be softer. That's all I can read into it.
11		It does not get the worst case nor does O'Neal
12		in any of his testimony or nor anything in the
13		SEC testimony that says that they have done the
14		worst case. Now, back on day 7 in the morning I
15		talked to, I was questioning Mr. Kenworthy, and
16		I asked him, did they follow Site 301.18(c)(1)
17		which is the ISO thing, and he said yes and I
18		said did you follow 301.18(c)(3), and he said,
19		his word was both. I don't know what more to
20		say.
21	Q	In your Prefiled Testimony you question the
22		Antrim Wind Energy model for shadow flicker. Do
23		you feel they underestimated the hours of
24		flicker?

1 Say again? Α 2 Do you feel they underestimated the hours of 0 3 flicker? 4 Α The underestimation of the shadow flicker is 5 outrageous. Now, and this is going to go past 6 5:30 maybe. But let me just go into here. The 7 site 102.4(a) which defines terms, defines shadow flicker as, quote, the alternating 8 9 changes in light intensity that can occur when 10 the rotating blades of a wind turbine are 11 backlit by the sun and cast moving shadows on 12 the ground or on structures. Doesn't say 13 anything about distance, it doesn't say anything 14 about flicking. It says changes in light 15 intensity. Now, how much of a change in light 16 intensity, it does not say. We've got about 200 17 fluorescent bulbs in this room, and I quarantee 18 you if I make one of those start to flicker, you 19 will notice it, and that's a change of one 20 percent or a fraction of one percent in the 21 total light. And even if I tucked it way over 22 in the corner, and you were reading here, you would still see it. So it doesn't take much. 23 24 You don't have to go totally out, totally back

in, totally out, totally back in. You need a detectable change in light intensity. That's the key.

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Now, the reason that that and the percent sunshine come together is because it's the same thing. Percent sunshine is measured by a pyranometer. Just a glass bulb hemisphere so no matter where the sun is, if it's shining it will shine through, and at some intensity which can be set in the instrument it will say it's sunny.

11 Now, on the darkest day, daytime, middle of 12 the day, totally cloudy, heavy clouds and 13 everything, you can see everything. At night 14 you can't. In the daytime you can. Now, what's 15 that saying? There's light from the sun coming 16 through the clouds. It's called sunlight. And also if you would bother to think about it, you 17 18 get up early in the morning, the temperature is 19 usually low and almost every day, no matter what 20 it is, sun or cloud, the temperature is warmer 21 in the middle of the day. What does that tell 22 That there's heat from the sun coming you? 23 through, too. Through all kinds of clouds. 24 So if we go from nice clear skies,

1 everybody would agree the sun's out. I don't 2 know anybody that disagrees. And when we really 3 put a heavy cloud layer in, everybody is, well, there's no real sun. There is. The problem is 4 5 that most of the days of the year are in 6 between. Very few of them are totally clear, 7 very few of them are totally cloudy. Almost always partly or mostly cloudy. More or less 8 9 sun goes through that. At what point do you say 10 if you put a blade in front of me that that's 11 going to cause a flicker. In the same way as 12 the percent sunshine recorder has a setting and 13 at a certain amount of it it says the sun's out 14 and below that amount even though they're 15 getting some sunshine it says there's no sun 16 out.

17 I talked to a fellow down at NCDC, and he 18 said he had to do the midnight shift as a 19 weather station one time, and it fell to the 20 midnight go to actually go through this tape 21 every minute, and you had to count the ticks in 22 it, and that told you how many minutes of the 23 day you had sunshine. That's all it does, and 24 if it's changed as they've changed over the

1 years, the percent sunshine changes. And the 2 percent sunshine and I have an exhibit there 3 which we won't go through, because we probably 4 don't have time, which shows you -- percent 5 sunshine isn't measured anymore. The last 20 6 years or so they stopped measuring it because 7 nobody cared about it. But I brought it in some 8 older data where there was percent sunshine and 9 there was percent cloudiness. You have the things in front of you, just go down, I think 10 11 it's column 19 or 20 and 20 and 21 you'll see on 12 some of them, and one of them is labeled percent 13 sunshine and the other is percent, number, the 14 percent, the number of, in the daytime when the 15 sun could be out, how often was it. And vou 16 will see that there's a general correspondence, 17 when there's more clouds there's less sun, but 18 then you'll find some with ten percent clouds, 19 100 percent clouds and 100 percent sunshine. 20 Now, one last experiment which you can do

20 Now, one last experiment which you can do 21 on your way home tonight, maybe not tonight, but 22 when you get some thin high thin clouds look up, 23 don't stare at it, the end of your thumb at arms 24 length is about the size of the sun. Or the

1		moon. So you have that as a reference. Now
2		take it when there's some clouds where you can
3		still see the sun through it and it's hazy.
4		You've got sort of a fuzz ball. Try that and
5		the sun comes all around it. In other words,
6		the actual disk of light is like five or ten
7		times the size of the sun.
8		All you're going to do is double the size
9		of the sun with some hazy clouds and you're
10		going to do four times the number of shadow
11		flicker hours. That is not in the model. It
12		will happen probably five to ten days a month,
13		and it will up the number of hours of shadow
14		flicker by a substantial amount. I don't know
15		what to do about it, but you can't use the
16		percent sunshine when you're talking about
17		shadow flicker. It just doesn't work. I'm 5:30
18		now. I can keep talking.
19	Q	Mr. Ward, I think you can answer this question
20		quickly, if you try.
21	A	Go ahead.
22	Q	Okay. You mentioned sun glint and you also
23		mentioned the potential for accidents on Route 9
24		in Stoddard. Could you tell us what the issue

1		is that you're worried about there?
2	A	The sun glint was what we talked about earlier
3		with the reflections off the blades and
4		basically when they're wet. Okay? The problem
5		on Route 9 is I testify in court a lot. That's
6		what I do to keep busy when I'm not here. One
7		of the big issues that I get, automobile
8		accidents from low sun angles and many highways,
9		for example, will say low sun, because when
10		you're looking right at the sun and you're
11		looking around the road and in fact the sun is
12		there, you almost can't see anything, and the
13		reason is, your eyes are trying to always adapt
14		to the brightest thing in its view and so
15		they're shutting down. So you can't see much.
16		I can't imagine, and I testify a lot about this
17		because I have to go out and find out what the
18		angle of the sun is which is part of my job,
19		whether there were clouds there or not, whether
20		it was sun glint, and whether the angles and
21		everything are right. And I can't imagine what
22		it would be like if I had one of these things in
23		addition to that.
24		Route 9 in Stoddard in the morning faces

1	these, faces Tuttle Hill. It wends around a
2	little bit, but it faces Tuttle Hill. I can't
3	imagine what it would be like when there's sun
4	and there's that. All I can say is it's seems
5	to me that's a disaster.
6	Q All right. Thank you.
7	PRESIDING OFFICER HARRIS: Does the Harris
8	Center have any questions?
9	MR. NEWSOM: I do not.
10	PRESIDING OFFICER SCOTT: Counsel for the
11	Public?
12	MS. MALONEY: No questions.
13	PRESIDING OFFICER SCOTT: The town?
14	MR. RICHARDSON: I have two sets of
15	questions. Mr. Enman asked me to ask questions
16	for me that he provided. So I'll start with
17	those and then I have mine. We are past 5:30
18	though. Do we have a quorum?
19	PRESIDING OFFICER SCOTT: Nobody's left
20	yet.
21	MR. RICHARDSON: So Mr. Enman asked me
22	to
23	DR. WARD: You don't have to apologize. We
24	all know Wes.
	$\{SEC \ 2015-02\}$ [Day 11/Afternoon Session ONLY] $\{10-200-16\}$

1	MS. LINOWES: Mr. Chairman, I just want to
2	object here because the Town of Antrim and
3	Mr. Enman were not consolidated as a group. Are
4	we saying that they have equal interest?
5	Because that was the condition under which one
6	party could ask questions on behalf of another.
7	If Mr. Enman wants to ask questions, he should
8	be here.
9	PRESIDING OFFICER SCOTT: This seems like a
10	fair question, Mr. Richardson.
11	MR. RICHARDSON: Well, I can just write the
12	word Richardson on top of the page. I mean, the
13	words are coming out. All I'm trying to do is
14	expedite this. He asked me to ask these
15	questions for him. So you can have the
16	transcript reflect that I'm asking the
17	questions. I just want them to know that these
18	were not my questions but Wes's.
19	PRESIDING OFFICER SCOTT: If you like the
20	questions, go ahead and ask them.
21	MS. LINOWES: Mr. Chairman, if I could put
22	on the record, the rest of us are staying here
23	for an opportunity to ask the questions. If Mr.
24	Enman can't be here, then that is not the rest

1		of our problem.
2		PRESIDING OFFICER SCOTT: This wouldn't be
3		the first instance where I have seen this
4		happen, but please press on here.
5		MR. RICHARDSON: Sure. Thank you.
б		CROSS-EXAMINATION
7	BY M	R. RICHARDSON:
8	Q	So Mr. Enman asked me to just make clear he
9		intended these all to be yes or no questions,
10		and I'll try to ask them that way. His first
11		was: Dr. Ward, your explanation of shadow
12		flicker was described as sunlight through the
13		moving blades of a turbine to a receptor. Yes
14		or no, is that more or less correct?
15	A	Yes.
16	Q	And yes or no, would you agree that shadow
17		flicker would be of different intensities at
18		different times of the day at different angles,
19		at different receptors, assuming the model of
20		full sun and no trees?
21	A	Well, slightly different. Yes.
22	Q	And again, yes or no, would you agree that there
23		are trees and the sun is sometimes not at full
24		intensity due to weather conditions?

That's correct. And one of your concerns was the potential effect to drivers on Route 9, is that correct? That's correct. And if the receptor is not fixed but moving, say approximately 83 feet per second, 55 miles an

5 Q And if the receptor is not fixed but moving, sa 6 approximately 83 feet per second, 55 miles an 7 hour, the posted speed along Route 9, the 8 incidence of actual flicker on a vehicle would 9 be minuscule according to your previous 10 explanation, and he says yes or no. 11 A No.

12 Q Okay. And then he says thank you. Moving on. 13 Do you remember when Mr. Raphael was questioned 14 about the visual representations, the pictures 15 of the turbines along the ridgelines? 16 Yes, I've seen lots of pictures of the turbines, А 17 of the fake pictures where they put them in, 18 right.

19 Q I believe that there were questions asked about, 20 to Mr. Raphael about contrast, about the sky not 21 being blue enough, if you will. Do you remember 22 that?

A I remember all kinds of questions like that.That could have been one of them.

{SEC 2015-02} [Day 11/Afternoon Session ONLY] {10-200-16}

WITNESS: WARD

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1	Q	For those conditions to be present in the real
2		world, humidity levels would have to be low, and
3		I'm sure other factors would have to play into
4		it such as temperature, season, time of day, is
5		that right, for those blue conditions to be
6		present?
7	А	Humidity would generally be low. It doesn't
8		have to be, but almost invariably is.
9	Q	And he says I fully understand the requirements
10		call for the correct representations to be made,
11		but would you agree on a daily basis those
12		perfect conditions, blue conditions, might not
13		be present, yes or no?
14	А	That's right. Might not be present.
15	Q	Okay. Thank you. That was all he had.
16		So what I wanted to ask you about and why
17		don't I do this? I have an exhibit here for you
18		to look at so let me go off the record and hand
19		that out. I'll put a copy on the table here so
20		if people want to pick it up so they can get to
21		it faster. I believe I marked it as Antrim
22		Exhibit 7 but I think we've added to it since I
23		printed it out so I'm not sure.
24		PAMELA MONROE: I think it's 10.

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1	(Antrim 10 marked for identification)
2	MR. RICHARDSON: If the parties could cross
3	out 7 and put 10.
4	PRESIDING OFFICER SCOTT: Go ahead, Mr.
5	Richardson.
6	BY MR. RICHARDSON:
7	Q So when the parties all left the room during the
8	confidential session in day 1, nonpublic, I
9	should say, I hadn't planned to ask you about
10	this, but you effectively said what this
11	document said and I think what you've said here
12	today, that you're a forensic meteorologist and
13	when you look on the back of the page, second
14	page of this Exhibit 10, it says lawyers and
15	insurance companies use forensic meteorologists
16	to determine, for example, fog was thick enough
17	to severely limit visibility at the time of an
18	accident, if the sidewalk was icy or glare could
19	have blinded the driver causing an accident.
20	That was referring to a website describing what
21	a forensic meteorologist was. Is that a fair
22	description of that profession?
23	A I don't know the website, but it certainly, I
24	could certainly could have easily said that.

1	Q	And then it quotes you, this is a Boston Globe
2		article, from 2002, and it was, it appears to an
3		obituary for Norman MacDonald, and I assume you
4		knew him. And you're quoted as saying Ward who
5		is a forensic meteorologist described the
6		specialty as mainly court testimony in slip and
7		fall cases, in quotes, and says in
8		Massachusetts, you said, or he said, you could
9		only sue if you flip and fall on a sidewalk and
10		there's an unnatural accumulation of ice and
11		snow so they need a meteorologist to testify as
12		an expert witness at court proceedings.
13		So is that your area of expertise? In
14		court cases?
15	А	In all the cases I have, slip and fall cases are
16		the bread and better of the business. The only
17		thing I want to be sure you understand is the
18		law was changed in Massachusetts a few years
19		ago. So you don't need an unnatural
20		accumulation anymore.
21	Q	Okay. And then on page 1, and this is the
22		document, this is the quote that got me that I,
23		that stands with me. It says back in his day,
24		you had to do some real forecasting, Ward said.

1	A	Which paragraph?
2	Q	I'm on the second to the last paragraph on the
3		first page of the Antrim Exhibit 10. Back in
4		his day, this is quoting you, I believe, you had
5		to do some real forecasting, Ward said. Today
6		computers are so good you can't beat them.
7	А	I believe that. Yes.
8	Q	So but you've spoken a lot about things like ice
9		throw and shadow flickers and I understand Mr.
10		O'Neal ran a model for those. He used a
11		computer to predict them. You haven't run a
12		model, have you?
13	А	No.
13 14	A Q	No. And you haven't run a model for ice throw,
14		And you haven't run a model for ice throw,
14 15		And you haven't run a model for ice throw, right?
14 15 16		And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't
14 15 16 17		And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't remember seeing any computer model for ice
14 15 16 17 18		And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't remember seeing any computer model for ice throw. Nothing, ever.
14 15 16 17 18 19		And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't remember seeing any computer model for ice throw. Nothing, ever. MR. RICHARDSON: I'm just asking him when
14 15 16 17 18 19 20		<pre>And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't remember seeing any computer model for ice throw. Nothing, ever. MR. RICHARDSON: I'm just asking him when he did. I don't know what anybody else did.</pre>
14 15 16 17 18 19 20 21		<pre>And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't remember seeing any computer model for ice throw. Nothing, ever. MR. RICHARDSON: I'm just asking him when he did. I don't know what anybody else did. PRESIDING OFFICER SCOTT: You need to let</pre>
14 15 16 17 18 19 20 21 21		And you haven't run a model for ice throw, right? MS. BERWICK: Can I object? I don't remember seeing any computer model for ice throw. Nothing, ever. MR. RICHARDSON: I'm just asking him when he did. I don't know what anybody else did. PRESIDING OFFICER SCOTT: You need to let him ask the question first, and my guess is

1	А	No, I have no model for ice throw.
2	Q	And I believe at one point Ms. Linowes was
3		questioning Jack Kenworthy about a Public
4		Service Board in Vermont report talking about
5		ice throw going off of property and how far it
б		would go, and there was a calculation that said
7		it would go off the property, I believe it was
8		once in every 287 years. Have you ever done a
9		calculation like that?
10		MS. LINOWES: Mr. Chairman, I would object
11		to that statement because in that particular
12		case that company had run an actual ice,
13		complete analysis over the ice situation. No
14		such analysis was done for this as Mr. Kenworthy
15		was asked and testified to.
16	Q	Sure. But have you done, you haven't done a
17		calculation like Ms. Linowes described?
18	A	Even if Mr. Kenworthy was willing to pay me at
19		my usual consulting fee, I would be quite a
20		while before I could ever get enough data to say
21		whether that was true or not.
22	Q	Okay. So, you know, another way of looking at
23		this is to look at existing facilities such as
24		in Lempster, in Groton. I mean we have Granite

1		Reliable in New Hampshire, and a lot of those
2		facilities are in areas where you would expect
3		ice conditions to be even more prevalent than
4		they would be, well, I suppose Lempster is
5		fairly similar to Antrim but certainly Groton
6		and Granite Reliable you have some pretty
7		significant conditions there.
8	A	Is there a question there?
9	Q	Yes. So I guess the question is is wouldn't
10		that experience would be another way to measure
11		the prevalence of ice throw?
12	А	Well, I believe I've said either orally or
13		written that the thing that bothered me about
14		all of this meteorology and wind facilities is
15		that there's so little data that I can get back
16		from these facilities. Back in 2009, '10, '11,
17		I appeared at the first Zoning Board hearing in
18		Antrim, and my first request was for the data
19		from the met tower, and I was told it was
20		proprietary, and I've tried I don't know how
21		many times since to get real weather data. I
22		would love to see it. I would love to see real
23		noise data. Why are we using models when
24		there's stuff out there?

Γ

1	Q	One reason the data might be so hard to collect
2		on ice throw is you simply don't see
3	A	Say again? I didn't hear you.
4	Q	One reason data on ice throw might be so hard to
5		collect is you don't see it at the existing
6		facilities in significant levels.
7		MS. LINOWES: Mr. Chairman, I'll object.
8		That is purely speculation. I think the issue
9		before the wind industry today is not
10		PRESIDING OFFICER SCOTT: Ms. Linowes,
11		we're short on time, and he's asked him a
12		question so let him ask the question.
13	A	I think its your question, my answer. I don't
14		know which question I'm working on.
15	Q	Part of the reason might be there's simply not a
16		lot of data from existing facilities to see
17		those kinds of giant accumulations of ice that
18		you described in your testimony earlier.
19	A	Well, that could be. I would think that if they
20		were happening that, first of all, we'd see them
21		out many times the 250 meters. I don't hear
22		that. I don't hear them saying they did a whole
23		study. The null hypothesis is always a problem.
24		It's always hard to prove a negative unless you

1		can show that you did all of the things to prove
2		it. You could very well be right.
3	Q	Okay.
4	A	You may be very wrong, but it's not up to me to
5		do that. It seems to me that's Antrim Wind's
6		point to make, and they haven't done it.
7	Q	Okay. I agree. It's their burden to show that
8		ice throw isn't a significant issue. So let's
9		move on. I think we've covered that. But you
10		said that accumulation preferentially occurs on
11		the end of blades, if I recall correctly, right?
12	A	I don't know that from an examination. I'm
13		saying as a meteorological, if there's icing
14		it's got to be preferentially towards the
15		fasting moving part of blade which is the tip.
16	Q	If this happens at kind of maximum operating
17		conditions, in other words, the blades are
18		moving fast, the changes of angular velocity and
19		angular momentum are going to be highest under
20		those conditions, right?
21	А	Hardest? Is that what you're saying? You said
22		hottest. I don't know whether I heard you wrong
23		or not.
24	Q	When the blades are moving at their fastest, you

1		know, after that 200 feet per second, I think
2		was their, meters per second, was the speed you
3		described?
4	A	Either way. You said, they're obviously the
5		what? I didn't get that.
6	Q	So when the velocity of the blades, the ends of
7		blades are moving at their fastest, we have a
8		formula that E is equal to mass times the square
9		volume for energy, right?
10	A	Man, you're keeping up with Barry, too. I don't
11		know what the question I'm still trying to
12		find you asked the word, you said they ought
13		to be and I can't get it. Hardest, hottest?
14	Q	I'm trying to walk you through it step by step
15		so let's say you agreed with me accumulation
16		preferentially occurs on the end of blades?
17	A	That's correct.
18	Q	And at the end of the blades with the blades
19		moving fastest?
20	A	That's correct.
21	Q	That's where you would see the most significant
22		changes in angular momentum or angular velocity,
23		whatever term you'd like to use because if the
24		blades

1 There won't be changes in it. They'll be moving Α 2 at a very high rate of speed. 3 Q And the tips of the blades are changing 4 direction because they're going --5 That's correct. Α 6 And the momentum is throwing them off. 0 7 Α That's correct. And the moment is throwing them off, and the 8 0 9 further you go out, the faster it is and the 10 formula for the amount of energy is E equals MV 11 squared, right? Isn't that true? You've got a 12 solid object, ice? 13 А Let me rephrase it which I think will answer 14 your question. The centrifugal force on the ice 15 on the ends of the blades will be higher than 16 the centrifugal force further in, and that's the 17 force that's trying to throw it off. The 18 accumulation will be highest out there and the 19 strongest tendency to want to throw it will be 20 out there, too. 21 Q So as the blades are at the extreme ends and they're moving fastest, that's where it's going 22 to throw the ice off where it's the lightest 23

because that's where the greatest energy to

24

1		eject the ice is going to be, right?
2	A	No, no. The heaviest accumulation of ice will
3		be out there. So I don't know, it depends on
4		how much it sticks, and I have no idea.
5	Q	But it's the energy of the spinning blades that
б		causes it to throw off, right?
7	A	No. I don't, well, I shouldn't say that. I
8		doubt it. I would say that the reason that most
9		ice is shed will be a change in temperature.
10		But here again, if I could have gotten the met
11		data, I might have been able to do something
12		with it. I suspect it's that, but I'm not going
13		to put my professional reputation on it.
14	Q	So you don't really know then?
15	A	Pardon?
16	Q	You don't really know then?
17	A	I don't really know then.
18	Q	Let's leave it at that because it sounds like
19		it's speculation to me.
20	A	It's professional experience and training, I
21		believe is the legal term.
22	Q	And your professional and training led you to
23		say I don't know. Just a minute ago.
24	A	Well, there's a difference between your asking

1	me my thoughts about it, my opinion, and asking
2	me if I know. I would like to know a lot more
3	things than I think I know.
4	Q I think I've covered what I to had to do here so
5	I'll move along.
6	PRESIDING OFFICER SCOTT: Does the
7	Applicant have any questions?
8	MR. NEEDLEMAN: No questions.
9	PRESIDING OFFICER SCOTT: Mr. Boisvert?
10	DR. BOISVERT: No questions.
11	PRESIDING OFFICER SCOTT: Ms. Weathersby?
12	MS. WEATHERSBY: No questions.
13	PRESIDING OFFICER SCOTT: Mr. Clifford?
14	MR. CLIFFORD: No questions.
15	MR. FORBES: No questions.
16	PRESIDING OFFICER SCOTT: Mr. Iacopino, do
17	you have any questions?
18	BY MR. IACOPINO:
19	Q I just have one question, and I don't know if I
20	understood you right. Have you ever actually
21	gone out to the site of a modern wind turbine
22	facility?
23	A No. The closest I've been since Ruth's district
24	covers Lempster, I've driven by Lempster.

1 Probably a mile away.

2 Q Route 10?

4

3 A Route 10. Yes.

Q Thank you. I have no other questions.

5 I do have a question for the MR. IACOPINO: 6 Applicant though. There's been some discussion 7 about data requests and I know that one of them 8 was provided. I'm looking at the transcript 9 from Day 7, Morning Session, I don't know if you 10 provided the answers to these data requests or 11 not but there was three of them. One for how 12 often are the sensors cleaned on the turbine, 13 second is how often are they calibrated and the 14 third is what is the cut-in point that the 15 system uses, and I believe we're talking about 16 the flicker issue.

17MR. WARD: I think that third was my18question, wasn't it?

19MR. IACOPINO: They were requested by the20Committee.

21 MR. NEEDLEMAN: The answer is we haven't 22 provided them yet, and we're trying to get them 23 from Siemens, and we hope to get them shortly. 24 MR. IACOPINO: Thank you.

1 PRESIDING OFFICER SCOTT: Thank you 2 everybody, and thank you, Mr. Ward. 3 MR. WARD: You're very welcome. My wife 4 will be happy to see me. I will give you 5 complete credit. 6 PRESIDING OFFICER SCOTT: All right. So 7 we'll reconvene the 7th of November at 9 o'clock 8 at this location. Thank you. 9 (Hearing recessed at 5:50 p.m. 10 and concludes the Day 11 11 Afternoon Session. The 12 hearing continues under 13 separate cover in the 14 transcript noted as **Day** 12 Morning Session ONLY.) 15 16 17 18 19 20 21 22 23 24 {SEC 2015-02} [Day 11/Afternoon Session ONLY] {10-200-16}