	[DELIBERATIONS]
1	STATE OF NEW HAMPSHIRE
2	SITE EVALUATION COMMITTEE
3	
4	February 7, 2013 - 9:15 a.m.DAY 3Concord, New HampshireMORNING SESSION ONLY
5	DELIBERATIONS
6	
7	In re: SITE EVALUATION COMMITTEE:
8	DOCKET NO. 2012-01: Application of Antrim Wind, LLC, for a Certificate of Site and Facility
9	for a 30 MW Wind Powered Renewable Energy Facility to be Located in
10	Antrim, Hillsborough County, New Hampshire. (Deliberations)
11	New Hampshille. (Deliberations)
12	PRESENT: SITE EVALUATION COMMITTEE:
13	Amy Ignatius, Chairman Public Utilities Commission (Presiding Officer)
14	
15	Harry T. Stewart, Dir. DES - Water Division Johanna Lyons, Designee Dept. of Resources & Econ. Dev.
16	Craig Green, DesigneeDept. of TransportationBrad Simpkins, Dir.DRED - Div. of Forests & LandsRichard Boisvert, Designee Division of Historic Resources
17	Brook Dupee, Designee Dept. of Health & Human Services
18	Ed Robinson, DesigneeN.H. Fish & Game DepartmentKate Bailey, EngineerPublic Utilities Commission
19	
20	COUNSEL FOR THE COMMITTEE: Michael J. Iacopino, Esq.
21	
22	
23	COURT REPORTER: Steven E. Patnaude, LCR No. 52
24	

	[DELIBERATIONS]	2
1	INDEX	
2	PAC	GE NO:
3	DISCUSSION RE: NIGHTTIME NOISE STANDARD BY:	
4	Ms. Bailey 8, 11, 13, 14, 18, 19, 20, 22, 23, 24,	25
5	Dir. Stewart 11,	24
6	Dir. Simpkins 11,	19
7	Mr. Boisvert 11, 13, 17,	21
8	Chairman Ignatius 13, 14, 17, 22,	25
9	Ms. Lyons	14
10	Mr. Robinson	18
11	Mr. Green	19
12	STRAW VOTE REGARDING TWO-STEP STANDARD	25
13	FOR SOUND LEVELS, DAYTIME AND NIGHTTIME	
14	DISCUSSION RE: POST CONSTRUCTION SOUND TESTING BY:	
15	Chairman Ignatius	27
16	Ms. Lyons	27
17	STRAW VOTE ON POST CONSTRUCTION SOUND TESTING	27
18	FURTHER DISCUSSION BY:	
19	Mr. Iacopino 29,	37
20	Chairman Ignatius 30, 33, 37,	38
21	Ms. Bailey 30, 31, 32, 34, 35, 37, 38,	40
22	Ms. Lyons	32
23	Mr. Boisvert 32, 35, 36,	39
24		

1	INDEX	
2	PA	GE NO:
3	SUB ISSUE RE: INFRASOUND	
4	STATEMENTS/QUESTIONS/DISCUSSION BY:	
5	Mr. Stewart	40
б	Ms. Bailey	41
7	Chairman Ignatius 41,	43
8	Mr. Dupee 42,	44
9	Ms. Lyons	43
10	Mr. Boisvert	44
11	STRAW VOTE ON OCTAVE BAND TESTING	45
12		
13	SUB ISSUE RE: SHADOW-FLICKER	
14	Presentation by Ms. Bailey	46
15	STATEMENTS/QUESTIONS/DISCUSSION BY:	
16	Dir. Simpkins 49, 50, 56, 58,	59
17	Ms. Bailey 49, 50, 51, 53, 54, 55, 58, 59, 62, 64,	68
18	Chairman Ignatius 49, 50, 52, 53, 54, 55, 57, 60,	66
19	Mr. Iacopino 51,	68
20	Mr. Boisvert 53,	62
21	Mr. Green	65
22	Dir. Stewart	69
23	STRAW VOTE RE: SHADOW-FLICKER	70
24		
	[GEG 2012 01] [Dev 2 Merring Gagaier ONIX] [02 0	- 1 -)

1	INDEX	
2		PAGE NO:
3	DISCUSSION REGARDING ANY POSSIBLE CONDITIONS ON SHADOW-FLICKER BY:	
4	CONDITIONS ON SHADOW-FLICKER BI:	
5	Ms. Lyons	71, 73
6	Mr. Robinson	71
7	Ms. Bailey	72
8	Mr. Iacopino	72
9	Mr. Boisvert	73
10	Chairman Ignatius	73
11		
12	SUB ISSUE RE: OTHER SAFETY ISSUES	
13	Presentation by Ms. Bailey	74
14	STATEMENTS/QUESTIONS/DISCUSSION BY:	
15	Chairman Ignatius	77
16	Mr. Iacopino	78
17	SUB ISSUE RE: OTHER SAFETY ISSUES (FIRE)	
18	Presentation by Dir. Simpkins	79, 83
19	STATEMENTS/QUESTIONS/DISCUSSION BY:	
20	Chairman Ignatius	83
21	Dir. Simpkins	83
22	STRAW VOTE (Fire)	84
23	CONDITION REGARDING "TRAINING AND COORDINATING SOME PREPLANNING WITH LOCAL OFFICIALS FOR	84
24	EMERGENCY RESPONSE"	

	[DELIBERATIONS]	
1	INDEX	
2		PAGE NO:
3	SUB ISSUE RE: OTHER SAFETY ISSUES (AVIATION SAFET	Y)
4	Presentation by Dir. Simpkins	85
5	STATEMENTS/QUESTIONS/DISCUSSION BY:	
6	Chairman Ignatius	86
7	Mr. Simpkins	87
8	Mr. Iacopino	89
9	CONDITION ON ACCEPTING THE AGREEMENT	89
10	BETWEEN AMC AND THE APPLICANT TO BE INCLUDED AS A CONDITION IN THE CERTIFICATE	69
11	AS A CONDITION IN THE CERTIFICATE	
12	STATEMENTS/QUESTIONS/DISCUSSION BY:	
13	Chairman Ignatius 8	9, 90
14	Mr. Green	90
15	CONDITION ON ACCEPTING THE AGREEMENT BETWEEN THE TOWN OF ANTRIM AND THE APPLICANT BE	91
16	INCLUDED AS A CONDITION OF THE CERTIFICATE	
17	STATEMENTS/QUESTIONS/DISCUSSION BY:	
18	Mr. Boisvert	91
19	OTHER COMMENTS ON THE ISSUE OF PUBLIC HEALTH AND SAFETY BY:	
20	Mr. Dupee	92
21	Chairman Ignatius	93
22		
23		
24		
	$\{SEC 2012-01\}$ [Day 3 - Morning Session ONLY] $\{02\}$	-07-13

	[DELIBERATIONS]
1	INDEX	
2		PAGE NO:
3	ISSUE: DECOMMISSIONING	
4	Presentation by Mr. Boisvert	94
5	STATEMENTS/QUESTIONS/DISCUSSION BY:	
6	Chairman Ignatius	97, 98, 99, 102
7	Ms. Bailey	97, 100, 102, 103
8	Mr. Boisvert	97, 98, 100
9	Mr. Green	101
10	Mr. Iacopino	102, 103
11	Dir. Simpkins	103
12	STRAW VOTE RE: DECOMMISSIONING	106
13	FURTHER DISCUSSION BY:	
14	Ms. Bailey	106, 108, 110
15	Mr. Boisvert	106, 108, 109
16	Chairman Ignatius	107, 108
17	Mr. Iacopino	109, 110
18		
19	ISSUE RE: ISO-NEW ENGLAND STUDIES	
20	Presentation by Chairman Ignatius	111
21	STATEMENTS/QUESTIONS/DISCUSSION BY:	
22	Ms. Bailey	117, 118, 120
23	Chairman Ignatius	117, 118
24		

	[DELIBERATIONS]
1	PROCEEDING
2	CHAIRMAN IGNATIUS: Good morning. I'd
3	like to reopen the proceedings in Docket 2012-01, which is
4	the Site Evaluation Committee's consideration of the
5	Application of Antrim Wind Energy for a Certificate of
6	Site and Facility in Antrim, New Hampshire. We're in the
7	third day of public deliberations on the Application.
8	Again, this is a publicly posted deliberation session open
9	to the public, and for people to observe, but not
10	participate in. We have a quorum of Committee members.
11	And, for the record, I'd like to have all of the members
12	identify themselves. I'm Amy Ignatius, Chairman of the
13	Public Utilities Commission.
14	And, let's go to Mr. Stewart please.
15	DIR. STEWART: I'm sorry, I was reading
16	something. I'm Harry Stewart, Director of the Water
17	Division, Department of Environmental Services.
18	MS. LYONS: Johanna Lyons, Department of
19	Resources and Economic Development.
20	MR. SIMPKINS: Brad Simpkins, Department
21	of Resources and Economic Development.
22	MR. ROBINSON: Ed Robinson, New
23	Hampshire Fish & Game Department.
24	MS. BAILEY: Kate Bailey, New Hampshire
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	Public Utilities Commission.
2	MR. DUPEE: Brook Dupee, Department of
3	Health and Human Services.
4	MR. GREEN: Craig Green, New Hampshire
5	Department of Transportation.
6	MR. BOISVERT: Richard Boisvert, New
7	Hampshire Division of Historical Resources.
8	CHAIRMAN IGNATIUS: Good morning. And,
9	welcome, everyone. And, welcome to parties and the
10	Applicant, and anyone else who comes in today.
11	We left off yesterday afternoon with a
12	completion of the first and really the most challenging, I
13	think, of the public health and safety terms, sound
14	effects. Before we move to the next safety issue, is
15	there anything else we needed to anyone had anything
16	further to add on sound that we might have left dangling
17	last night or you thought of overnight?
18	MS. BAILEY: I have one thing I want to
19	point out. Mr. O'Neal talked about the World Health
20	Organization nighttime noise standard in the record on
21	cross-examination. And, just so that we're all clear
22	about the decision that we made yesterday, I'd like to
23	read that. It's on Page Day 5, in the morning, on Page
24	the question was from Chairman Ignatius, starting on
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	Page 27. It says: "Do you have any understanding of
2	reports that there may be sleep disturbance or mental
3	concentration problems or even mental functioning
4	problems, as a result of being in proximity to windmill
5	sounds?" And, his answer was: "I mean, I've certainly
6	seen some of the papers and the write-ups that have been
7	done about that. I guess a couple things to keep in mind.
8	Is that, these sound levels that we're talking about here,
9	I'm not sure if I said this yesterday or not, we have to
10	remember, these are all outdoor sound levels, okay? So,
11	these are outside the home. So, at 40 decibels, 35
12	decibels, you should subtract 10 to 15 additional decibels
13	to estimate what would be inside someone's home. Windows
14	open, you can subtract 10; windows closed, especially here
15	in New Hampshire, at least 15 decibels. So, 40 decibels
16	becomes 25 to 30 in the home."
17	"The World Health Organization has a
18	couple different community guideline criteria that talk
19	about sleep disturbance. One of them is the 45 dBA that
20	you've heard mentioned before probably, that's also an
21	exterior number. Certainly, this Project would comply

21 exterior number. Certainly, this project would comply 22 with that. There's relatively new night noise guideline 23 that's also been discussed, I think, that the WHO has 24 introduced. It's a European guideline values called

1	[DELIBERATIONS]
1	"Night Noise Guideline", and that's a 40-decibel value.
2	And, that's a long-term annual average for nighttime sound
3	to permit good sleep and health" "good sleep and good
4	health."
5	"This Project also meets that. And, the
6	reason I say that, 40 decibels, on an annual basis, means
7	that some nights, even with the closest homes, you have
8	"you might have 40 to 41 decibels at night. But there are
9	many, many nights where you could have sound levels lower
10	than that. Because either the turbines are not spinning
11	at all, in which case the sound level is zero from the
12	turbines, or the turbines are spinning at somewhat reduced
13	power operations, so the sound levels are less than 40.
14	So, when you add it up over the course of a year, every
15	single home in this Project area is going to meet that
16	European guideline, the 40 Night Noise Guideline, which
17	goes to your question of sleep."
18	So, yesterday, we, I think, made the
19	standard a 40, 40 dB standard, not an annual average
20	standard. And, if the European guideline is 40 on an
21	annual basis, I think that the standard that we adopted
22	yesterday was stricter than that. And, I wanted to know
23	if we should, now that we understand that, if we should
24	keep it that way or make it an annual average number?
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

i	
1	CHAIRMAN IGNATIUS: Thank you for going
2	back and checking on that. Do people Mr. Stewart.
3	DIR. STEWART: Yes. Thank you for that.
4	And, my impression is that we were trying to apply the
5	World Health Organization guideline as a standard for this
6	Project. So, if the WHO guideline is an annual average,
7	then I think that's what we should try to apply to the
8	Project, too.
9	MS. BAILEY: I agree.
10	CHAIRMAN IGNATIUS: Anyone with a
11	differing view? Mr. Simpkins.
12	DIR. SIMPKINS: Well, just a question.
13	How would we monitor that for compliance?
14	MS. BAILEY: That's a very good
15	question. And, the WHO guideline is really long, and I
16	haven't had a chance to read the whole thing. And, so,
17	DIR. SIMPKINS: If a complaint came in,
18	will we have to measure for a year to determine if there's
19	an infraction? Or, I'm just concerned about how that
20	enforcement would
21	MS. BAILEY: Right.
22	CHAIRMAN IGNATIUS: Mr. Boisvert.
23	MR. BOISVERT: I'm trying to think this
24	through in terms of human behavior and statistics both.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	In the wintertime, things are closed up, and some of the
2	people may be not resident at the time, going off on
3	vacation. I understand the assessment. And, so, there
4	would be a period wherein almost any standard would, in
5	effect, be a moot point. And, then, during the summer,
б	people have a tendency to have more windows open and so
7	forth. And, so, you're more sensitive to the outside
8	sound. And, if it were to happen that, during summer
9	months, the noise was fairly significant, so as to bother
10	the sleep and so forth, that will be a problem. But, when
11	you take it on an annual average, you would have to have
12	almost a bracket out there. You'd have to have
13	extraordinary high noise levels that everyone would agree
14	would be bad. And, when you put that into the annual
15	average, it probably still would end up being below 40.
16	So, we could have, say, a six-week period in the summer,
17	where, hypothetically, it's very noisy, and most
18	reasonable people would agree this is interrupting sleep,
19	and it's an annoyance, and it certainly is quite negative.
20	But, when you pump it through, pump the numbers through on
21	the annual average, it wouldn't make any difference. It
22	wouldn't be in violation of what we have approved.
23	And, the issue of how you monitor it is
24	separate and difficult. But this could, because, you

	[DELIBERATIONS]
1	know, we're buttoned up in the wintertime, make it such
2	that any noise level in the summer, however loud, once you
3	averaged it through, would be below the 40.
4	MS. BAILEY: Well, the measurement is
5	always taken outside.
6	MR. BOISVERT: Yes. Yes. But the
7	complaints come from people who live there. And, they
8	say, "yes, well, it's outside, but I've got the windows
9	open", or maybe they're on a screened-in porch, some
10	people like to do that, but, whatever, they will be
11	tendering the complaints.
12	And, I'm just thinking that that
13	standard sounds good, but how you apply it and how you
14	monitor it and how you average it out, could be a
15	situation where it sounds good, but, in effect, has no
16	application.
17	CHAIRMAN IGNATIUS: It is interesting
18	that a lower level, because it's measured in a different
19	way, sounds like, as you point out, could result in a far
20	higher incidence on the individual blocks of time. But,
21	because of enough quiet hours to offset that, if it's an
22	annual average, it could really be the opposite of what I
23	think we were looking to do yesterday, which was to
24	consider bringing down the nighttime level.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	I'm wondering if it makes more sense to
2	go back to the way we've done in the past, with a
3	nighttime level of 45 dBA, or five over, whichever is
4	greater, as has been the case in some recent cases,
5	findings in some recent cases, and not go to not do any
6	of the annual averaging testing.
7	CHAIRMAN IGNATIUS: Ms. Lyons.
8	MS. LYONS: I think, going to whatever
9	standard that we've set before is probably a good idea,
10	rather than trying to change the monitoring, which is by
11	average. I mean, I'm not sure that the Committee is set
12	up to do that.
13	CHAIRMAN IGNATIUS: There's absolutely a
14	practical problem, either within the Town, within the
15	Committee, or requiring some new year-round monitoring by
16	the Applicant. Either of those all three of those
17	options are difficult, and I don't know what else you'd
18	do. That's the only three ways I can think of doing it.
19	Ms. Bailey.
20	MS. BAILEY: I'm in the World Health
21	Organization 1999 Night Guideline Standards. And, I
22	haven't read the whole thing, so it's always dangerous.
23	But, when they're talking about night, the level night
24	outside, so, it says "Therefore, 40 dB L night, outside,
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	is equivalent to the lowest observed adverse effect
2	level." And, that's a term that they use throughout the
3	document, "lowest observed adverse effect level for night
4	noise". "Above 55 dB, the cardiovascular effects become
5	the major health the major public health concern, which
6	are likely to be less dependent on the nature of the
7	noise. Closer examination of the precise impact will be
8	necessary in the range between 30 dB and 55 dB, as much
9	will depend on the detailed circumstances of each case."
10	So, that sort of gives us a range of where they think the
11	health impacts could come. And, I think they are thinking
12	it's between 30 and 55 dB. That's how I read it.
13	CHAIRMAN IGNATIUS: So,
14	MS. BAILEY: Maybe we should go to a
15	standard that says "it can't exceed 45 dBA." I mean, they
16	have said they can make that. The other thing that I
17	CHAIRMAN IGNATIUS: Are you talking
18	about a nighttime?
19	MS. BAILEY: Yes. Well, yes, for
20	nighttime, and well, I don't know. I was thinking sort
21	of as a compromise to go to 45 for everything. And, there
22	was a little discussion yesterday about "well, what if the
23	ambient sound is louder in the daytime?" And, I recalled,
24	in the Epsilon report, and I haven't gone back to review
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	
1	this, so I'm going to do it on the fly here. But there's
2	a little primer in the beginning of the Epsilon report.
3	So, that's AWE 3, 13A, and Page 2-1. And, it says: "The
4	decibel scale is logarithmic to accommodate the wide range
5	of sound intensities found in the environment. A property
6	of the decibel scale is that the sound pressure levels of
7	two separate sounds are not directly additive. For
8	example, if a sound of 50 dB is added to another sound of
9	50 dB, the total is only a 3-decibel increase (to 53 dB)."
10	So, that's probably why, when you have
11	an ambient sound around 45, which is what they've measured
12	in some cases, and if the generators are producing 45,
13	that the standard is "ambient plus five". So, you know,
14	you don't take the ambient. "Oh, well, if the ambient is
15	45, and they add another 45, it's going to be 90." It's
16	not. So, I thought that was helpful to remember.
17	So, I think it would be reasonable to
18	adopt a 45 dB absolute threshold, and then "ambient plus
19	five", and "the greater of". And, that way we don't have
20	to deal with the annual average issue.
21	CHAIRMAN IGNATIUS: And, just a flat
22	limit, day or night?
23	MS. BAILEY: Yes.
24	CHAIRMAN IGNATIUS: Thoughts of members?
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

[DELIBERATIONS] 1 Mr. Stewart. I can live with that. 2 DIR. STEWART: Ι 3 think it will be all right. 4 CHAIRMAN IGNATIUS: Others? 5 MR. BOISVERT: Remind me again exactly 6 what we agreed to yesterday, because the numbers are now 7 crowding in my mind. We had tried a 8 CHAIRMAN IGNATIUS: Yes. 9 couple different ways. And, what we ended up with was 50 10 for the daytime, or five over ambient, which ever is 11 greater. And, 40 --MS. BAILEY: Forty for the nighttime. 12 13 CHAIRMAN IGNATIUS: -- 40, or five above 14 ambient, whichever is greater. Assuming that was a 15 similar measurement, I think. And, only this morning, 16 with Ms. Bailey stewing about it overnight, and reading 17 back through that again, realizing that that second 18 nighttime measurement was over an average, annual average, 19 and really a different measurement. 20 So, I guess the options are to stay with 21 50, with a lower nighttime of 45, or whatever it might be, 22 or to go to one limit that doesn't distinguish day or 23 night, of 45, or five over, you know, each time "the five 24 over" remains unchanged. Or, you know, any other -- any {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	other proposals people may have. And, in other cases,
2	we've had a two-step limit, daytime higher than nighttime,
3	but there's no mandate that there be two different ones.
4	And, I think, out of a concern over people's sensitivity
5	about sleep, that over the years there's been a lower
6	level for nighttime. But that's not a requirement
7	anywhere, it's just something that sort of has grown up
8	over time. Ms. Bailey.
9	MS. BAILEY: And, the nighttime has
10	always been 45 previously, the lowest that the Committee
11	has set.
12	CHAIRMAN IGNATIUS: Mr. Robinson.
13	MR. ROBINSON: Yes. With this new
14	information, and noise being such a big issue with this
15	particular Project, I would feel comfortable with 45, plus
16	five, for one standard, rather than separate standards.
17	CHAIRMAN IGNATIUS: Any other comments?
18	(No verbal response)
19	CHAIRMAN IGNATIUS: According to the
20	testimony of the Applicant, that's within the that's
21	higher than the range that they believe they will meet.
22	So, this is certainly not it's not that we're
23	concocting something that we know is not possible to
24	achieve. It's actually consistent with the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	recommendations of the Applicant.
2	All right. Is everyone agreeable to
3	having one standard of being "45 dBA, or 5 dB over
4	ambient, which ever is greater", to be applied 24 hours a
5	day? Mr. Green.
б	MR. GREEN: Yes. Amy, I just want to
7	make sure I'm clear on this. Yesterday, we said the World
8	Health Organization had a 45 dBA, but it had been changed
9	down to 40 dBA. So, that's average, is that right? Is
10	what I'm understanding?
11	MS. BAILEY: Well, the testimony from
12	Mr. O'Neal said that the new World Health Organization
13	standard was an annual average number of 40 dBA over the
14	year, and that's going to be really hard to figure out.
15	MR. GREEN: Okay. And, so, the 40 that
16	they had gone down to was an average for the whole year?
17	MS. BAILEY: According to Mr. O'Neal,
18	yes.
19	MR. GREEN: Okay, okay.
20	CHAIRMAN IGNATIUS: So, are people
21	comfortable? Mr. Simpkins.
22	DIR. SIMPKINS: Well, just a question.
23	We're saying "45 at night" well, we're saying "45
24	throughout, or 5 over ambient, whichever is greater." I'm
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	wondering, I think that makes sense for the daytime. I'm
2	wondering about the night. Some of these ambients were in
3	the upper 20s. So, by saying "45, or 5 over ambient,
4	whichever is greater", say, it's 27, is there ambient now
5	I mean, they could be 18 over at night.
6	So, I'm wondering, should it be 45, but
7	for the day, be "45, or 5 over ambient, whichever is
8	greater"; and, at night, be "45, or 5 over ambient,
9	whichever is less"? I'm just concerned that, by saying
10	"whichever is greater", 45, when you look at some of these
11	numbers in some of these locations, it could be
12	considerably over that at night.
13	MS. BAILEY: I think, if we were going
14	to adopt a standard like that, we should make it "10", the
15	difference should be allowed to be at least 10. So
16	because I think the testimony was, if, and it was
17	Mr. Tocci's testimony, "if there was a difference of more
18	than 10 over ambient, that could cause disturbance." So,
19	if you're going to make it the lesser, I would recommend
20	"10".
21	CHAIRMAN IGNATIUS: Ms. Lyons.
22	MS. LYONS: I just want to be clear that
23	we're trying to set these limits for health. So, while I
24	appreciate that the current ambient is low, I'm not sure
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	that, are we just trying to preserve existing conditions
2	or are we trying to set a standard because of health?
3	MS. BAILEY: I think we're trying to set
4	a standard because of health. And, I think there is some
5	testimony that says, "if the difference is more than 10,
6	health could be affected." And, the World Health
7	Organization says, you know, the concern is between 30 and
8	55 dB. So, we're just trying to figure out what the right
9	balance is. And, none of us are experts.
10	CHAIRMAN IGNATIUS: Dr. Boisvert.
11	MR. BOISVERT: Mr. Simpkins brings up
12	the question that I brought up yesterday, about that "it
13	should be less than or greater than". And, I think that
14	the 10 dB above ambient I think is quite reasonable, is a
15	longer stretch. But, if it's if it is relatively
16	quiet, and it goes 10 decibels above that, that is enough
17	to disturb people, I suspect, from the testimony. It's my
18	understanding, is a noticeable enough difference that it
19	would disturb people. And, I think that is the key on the
20	health front. That, if it disturbs someone, raises stress
21	levels, interrupts sleep, that has a health effect. And,
22	I think that we we're talking about "health" in this
23	portion of deliberations, and I think we need to focus on
24	the "health" part. I think that is a reasonable yardstick
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	to use. Others might argue it's too much, but I think
2	it's reasonable. I have no problem with it.
3	CHAIRMAN IGNATIUS: So, the idea would
4	be to have a daytime standard and a nighttime standard
5	that not only are different numbers, but are different
6	calculations. And, let me see if I got this right. That
7	daytime it would be "the greater of 45, or 5 over
8	ambient"; and the nighttime standard be "the lesser of 40,
9	or 10 over ambient"?
10	MS. BAILEY: Forty-five.
11	CHAIRMAN IGNATIUS: Forty-five, or ten?
12	MS. BAILEY: Right. That's the
13	proposal. So, let's think about what the effect of that
14	would be. That would mean that, if Mr. Tocci's
15	calculations are correct, and the ambient is around 15 at
16	night, the standard would be 25 dBA. And, there's
17	testimony that indicates that would certainly not have any
18	health impact. I think there's testimony that suggests
19	that less than 30 would have no health impact. So, if it
20	were only allowed to have 25 dBA of sound, and the
21	turbines generally, on average, produce 35, 33ish, would
22	that mean they couldn't run at night? And, is that what
23	we want to impose?
24	CHAIRMAN IGNATIUS: I think that's my
	$\{SEC 2012-01\}$ [Day 3 - Morning Session ONLV] $\{02-07-13\}$

1	concern. I think that we're trying to figure this out for
2	all the best of reasons, but we're the practical
3	impact, I don't want to create a standard that is
4	effectively saying "you can't operate". If that's our
5	conclusion, then it should be our direct conclusion, not a
6	sort of indirect consequence of picking a number. And,
7	that's a fair conclusion people can reach, I'm not saying
8	you can't come to that answer. But we ought to be certain
9	that that is what we're saying. That we don't want them
10	to run at night in any way that would produce sound
11	greater than X.
12	And, because we're trying to anticipate
13	how all of this would play out, I might have a little fear
14	of the unintended consequences here, that we we just
15	may not have thought through all of the different
16	variations in the way it might result.
17	MS. BAILEY: The other thing we could
18	think about is establishing 40 dBA at night, rather than
19	the annual average. Because, I mean, the World Health
20	Organization says "40 dB L night, outside, is equivalent
21	to the lowest observed adverse effect level for night
22	noise." So, rather than having a standard that says
23	"ambient, plus 10", which might end up being 25, we could
24	get to 40, and just make that the standard.
	[GEC 2012 01] [Day 2 Morning Society ONIX] [02 07 12]

	[DELIBERATIONS]
1	DIR. STEWART: I'm in another place,
2	MS. BAILEY: Okay, good.
3	DIR. STEWART: excuse me, in the WHO.
4	And, it says, similar to what Kate has, the lowest "the
5	LOAEL", which is the "lowest observable adverse effect
6	level", "of night noise, 40 decibels, can be considered a
7	health-based limit of the night noise guidelines necessary
8	to protect the public, including most of the vulnerable
9	groups, such as children, the chronically ill, and the
10	elderly, from the adverse effect" "health effects of
11	night noise." So, that seems to be the health-based
12	standard that WHO has established.
13	Now, I haven't found where it says
14	"annual", but I believe you.
15	MS. BAILEY: I haven't found that
16	either. That was Mr. O'Neal's testimony, but I haven't
17	looked
18	DIR. STEWART: And, Mr. Tocci said
19	nothing about "annual", and O'Neal did. So that, I mean,
20	that becomes the health-based value, if we're subscribing
21	to the WHO guidelines. Now, how you apply that, I'm not
22	so sure. But this most likely is an annual, but, again, I
23	haven't found it in the guidelines yet. I will continue
24	to look.

1	CHAIRMAN IGNATIUS: Well, you know,
2	another way to do this is to it's like on one hand, on
3	the other hand, and on the other hand, and how many hands
4	do we end up with here. But another way to do it would be
5	to have a daytime and nighttime limit, not get into the
6	average over time, not get into a lesser versus greater.
7	Keep it pretty straightforward, but have it step down.
8	So, that 45 in the day, or 5 over; and the nighttime 40,
9	or 5 over. That's similar to the three-step standard that
10	was adopted in Groton. Where, for the campground, there
11	was a lower level within that area that it couldn't exceed
12	40, or five over, I think. And, so, here, to continue a
13	daytime/nighttime differential, but just to bring them
14	down to be 45 daytime and 40 at night, plus the five over
15	test, the greater of those two, for the two times.
16	MS. BAILEY: I think, based on what
17	Mr. Stewart and I have found in the World Health
18	Organization guidelines so far, that would make me very
19	comfortable in concluding that this won't have an adverse
20	effect on health as a result of sound.
21	CHAIRMAN IGNATIUS: Any other response?
22	(No verbal response)
23	CHAIRMAN IGNATIUS: How about a show of
24	hands of who would be supportive of a two-step standard,
-	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	
1	daytime 45 dBA, or 5 dB over ambient; and a nighttime
2	standard of 40 dBA, or 5 over ambient? Show of hands, who
3	would support that?
4	(Show of hands.)
5	CHAIRMAN IGNATIUS: Any opposed to that?
6	(No indication given.)
7	CHAIRMAN IGNATIUS: It appears none.
8	All right. Thank you. So, until we pick this up again
9	okay. Thank you. Thank you. I just appreciate so much
10	your willingness, Ms. Bailey, to go back, and, obviously,
11	you were worried about it, and thinking, and, after we
12	left here, and going back and looking it up again, and
13	pulling back the references from the transcripts, I really
14	appreciate that.
15	I think, on all of these, we've been
16	assuming the measurement be done at the exterior of the
17	residence.
18	MS. BAILEY: Yes.
19	CHAIRMAN IGNATIUS: But we hadn't been
20	explicit about that. So, is that everyone's
21	understanding? All right. Thank you.
22	Then, let's move to the next health and
23	safety issue. And, Ms. Bailey, I think you're going to
24	continue leading us through those?
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	MS. BAILEY: Yes. But do we have to
2	make a decision about infrasound?
3	CHAIRMAN IGNATIUS: Oh, yeah. Help us,
4	Mr. Iacopino. Do you recall where we ended up?
5	MS. BAILEY: And, a post construction
6	sound test, we have to decide whether we wanted to require
7	that.
8	CHAIRMAN IGNATIUS: Yes. While you're
9	looking up the infrasound questions from yesterday, on the
10	post construction sound testing, that is something that we
11	have routinely required. I think it's appropriate to do
12	it. I don't know how much detail we have to spell out in
13	the conditions themselves, the number of test locations,
14	the period of time over which the test is run, or whether
15	there's a kind of standard that we can rely on. I guess
16	I'm looking to Mr. Iacopino for some help on that. And,
17	before I did, I mean, I assume, is that something that
18	everybody would be supportive of to do, to have a
19	requirement and a condition of some level of post
20	construction sound testing? Ms. Lyons.
21	MS. LYONS: Yes, I agree. Especially
22	since this is a new piece of equipment, and there is some
23	uncertainty at this point.
24	CHAIRMAN IGNATIUS: That's a good point.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	You're right. Anyone who would not support a post
2	construction sound test to be done?
3	(No indication given.)
4	CHAIRMAN IGNATIUS: It appears not.
5	MR. IACOPINO: To answer the first
6	question, my notes say that we left the infrasound
7	discussion without any final decision on it, and went onto
8	the noise, the audible noise, sorry. So, that's the first
9	question.
10	And, I'm pulling up the Groton Wind
11	Project as we speak, for those of you who want to follow
12	along, for the purpose of explaining to you what we
13	required in that particular case for post construction
14	sound. My recollection is correct, as I'm getting to it,
15	there was required to be some cooperation with the local
16	authorities in the structure of the sound study, post
17	construction sound study. But I may be getting that
18	confused with other things I have read.
19	CHAIRMAN IGNATIUS: Well, why don't we
20	then, rather than hold up on that, maybe keep looking for
21	that, and make a note to come back to it. On the it
22	sounds like it's it's clear that we want to have
23	something, it's just how exactly it's worded and whether
24	we prescribe all of the details of it or whether we ask
I	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	for some consult between the Town and the Applicant, or a
2	group of interested parties and the Applicant, or
3	something like that.
4	On the infrasound, and very low level,
5	low frequency sound
6	MR. IACOPINO: I have it, if you want me
7	to get to it?
8	CHAIRMAN IGNATIUS: Oh, okay.
9	MR. IACOPINO: The actual condition in
10	Groton, with respect to that, was that it reads as
11	follows: "After commercial operations of the Project
12	commences, the Applicant shall retain an independent,
13	qualified acoustics engineer to take sound pressure level
14	measurements in accordance with the most current version
15	of ANSI S12.18. The measurements shall be taken at
16	sensitive receptor locations identified by the Applicant
17	and the Towns of Groton and Rumney. The periods of the
18	noise measurements shall include at a minimum of daytime
19	winter and summer seasons, and nighttime after 10:00 p.m.
20	All sound pressure levels shall be measured with a sound
21	meter that meets or exceeds the most current version of
22	ANSI S1.4 specifications for a Type 2 sound meter. The
23	Applicant shall provide a final report of the acoustics
24	engineer to the Subcommittee and to the Towns of Groton
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	and Rumney within 30 days of receipt by the Applicant."
2	And, the other thing just of note for
3	you all, is that there was a provision in the certificate
4	as well that, if a landowner wanted to waive the
5	restrictions set forth on sound, they could, do it in
6	writing. That's not really what you're discussing. So,
7	that's the condition that was in Groton. The actual
8	receptor locations were to be determined by consultation
9	between the Applicant and the two towns that were
10	impacted.
11	CHAIRMAN IGNATIUS: In this case, are
12	people interested in a similar sort of provision that
13	would set out the broad parameters, as Mr. Iacopino read,
14	but the actual test location sites to be worked out
15	between the Applicant and, in this case, the Town of
16	Antrim?
17	MS. BAILEY: I think, rather than the
18	Town, we should consider the receptor the five receptor
19	locations that they have already measured, and then maybe
20	change the one by Ms. Longgood's residence, because she
21	said that was too I don't know. Maybe we should just
22	keep then L1 through L5, because those seem to be sort of
23	placed near the near the residences.
24	CHAIRMAN IGNATIUS: Although, they're at
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIDERATIONS]
1	property lines, more than at the exterior of the
2	residence.
3	MS. BAILEY: Right. That's what I was
4	thinking when I went to the Longgood property. But, then,
5	if we do it at if we do it at I think, when we're
6	doing the post-construction monitoring, we're trying to
7	measure the overall sound in the area, not individual
8	homes. So, if we put it outside somebody's home, we'd
9	have data on that home only. Whereas, if we left it at
10	the five locations, we'd have data to compare to what they
11	thought it was going to be, and it would also be more
12	indicative of the sound that would affect everybody. And,
13	then, if there was a particular complaint, the measuring
14	point would be outside the home.
15	CHAIRMAN IGNATIUS: Well, that's yes,
16	that's interesting. By doing it a little more broadly,
17	you can apply that information to more than just one
18	particular location. Certainly, the sound could be no
19	greater from the receptor as you get closer to the
20	individual home, I assume.
21	MS. BAILEY: Well, no, that's not true.
22	Because it depends on where you are where that receptor
23	is in relation to the ridgeline. Because I think the
24	ridgeline is in front of Ms. Longgood, and I think the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	[DETIDERAIION2]
1	receptor was behind her.
2	CHAIRMAN IGNATIUS: All right. Ms.
3	Lyons.
4	MS. LYONS: I agree with Kate that we
5	should at least have something that could be a repeat
6	measurement of pre-construction. But we could leave it
7	open to let them pick other sites also, because we may
8	have missed some sites right now that, after construction,
9	someone says "well, you know, maybe it's over here, too."
10	So, we could leave it open, but I do agree that we should
11	have something that's repeatable from pre-construction.
12	MS. BAILEY: So, at a minimum,
13	MS. LYONS: At a minimum.
14	MS. BAILEY: at L1 through 5,
15	MS. LYONS: Exactly.
16	MS. BAILEY: and any other locations
17	they thought were necessary?
18	MS. LYONS: Important, yes.
19	CHAIRMAN IGNATIUS: What do people think
20	of that?
21	MR. BOISVERT: I think that keeping them
22	in the same place has some scientific validity as well,
23	because you can compare apples to apples, like we
24	discussed earlier. Also, I would anticipate there should
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	be some way to calculate, if this is, you know, 500 yards
2	further out than the sound at this point, 500 yards closer
3	in would be such and such, there should be some reasonable
4	way to statistically model it. The sound follows a
5	certain curve. I would be very surprised if we're not
6	able to reasonably estimate what it would be at any given
7	point nearby, using that as the monitoring station. So,
8	it doesn't need to be on the house. Landowners may very
9	much want to have it there or very much not want to have
10	it there. I would think we should be able to find a way
11	to model what the sound would be.
12	Adding in additional places is good,
13	although I doubt that the Applicant is going to want to
14	have a greater expense and open up more opportunities for,
15	from their point of view, a problem. I was wondering if,
16	you know, Willard Pond, but then we're not getting
17	we're getting away from health and into aesthetics. So,
18	let's keep it to health.
19	But I think that keeping it in the same
20	place, and projection from it's just a modeling
21	projection, we do this all the time in many other
22	sciences, I would think that would be reasonable and
23	defensible.
24	CHAIRMAN IGNATIUS: So, what about the
	[GEC 2012 01] [Dow 2 Morning Soggion ONLY] [02 07 12]

	[DELIBERATIONS]
1	suggestion that the requirement that the requirement be
2	that the post-construction testing be at the same five
3	locations as done in the Application, L1 through L5, plus
4	any additional ones agreed to between the Applicant and
5	the Town?
6	MS. BAILEY: Within reason. I mean,
7	what if the Town says "do it at Willard Pond", "do it
8	here", "do it there", and it doesn't have anything to do
9	with whether there's going to be a health impact.
10	CHAIRMAN IGNATIUS: And, that would be,
11	if it were agreed to between the Applicant and the Town,
12	there would have to be some sort of willingness to come to
13	a reasonable list between them.
14	MS. BAILEY: On the other hand, what if
15	the Applicant says "no, I'm not going to agree to
16	anything." I mean, maybe we could say "up to three other
17	locations", or something like that. I mean, that's
18	completely arbitrary.
19	CHAIRMAN IGNATIUS: Well, that's I
20	think that's fair, to say that there be, at a minimum, you
21	know, X, five I mean, eight locations, the five that
22	have already been identified, and three others, but the
23	locations themselves to be agreed to between the two.
24	Then, there's some requirement that you go a little beyond
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	that, but not totally open-ended. Is that something
2	people like?
3	MR. BOISVERT: And, I think that I
4	think that it should be clear the purpose of the
5	monitoring. I think you need because I think it would
б	be unfair to have a monitoring station put up for health
7	purposes and have it used for another purpose. I think
8	you need to be clear that this is a condition, this is
9	what we expect will happen, and it will give us
10	information for these purposes. I think it needs to be
11	specified this is for health purposes. Does that sound
12	reasonable?
13	MS. BAILEY: I agree. Except, but look
14	at how hard we have struggled over what that means, and
15	they don't have the information we have. So, if they
16	chose to do it at Willard Pond, and it showed that the
17	sound was 25 dBA, then it's pretty clear that doesn't have
18	any health impact, and they have wasted that one location.
19	So, I'm not I mean, as long as we get the five location
20	sites that they measured pre-construction, if the Town
21	wants to use their other three to figure just for
22	information, I don't know. I agree with you to a certain
23	degree, but I don't think that this topic is well enough
24	understood by most people to get there.

1	MR. BOISVERT: I would observe that
2	negative findings out of a sampling location is not
3	wasted. It is valuable information. And, if you get a
4	lot of negatives across the board, that makes the point
5	that it's not a problem. I don't think that we need to
6	try to construct the testing machine that maximizes all
7	possibilities of a certain kind of finding. I think we
8	need to have it open and fair, and make sure we know what
9	it's for.
10	If there is a faciling that there are

10 If there's a feeling that there are 11 areas where there might be negative health effects that were not anywhere near the sampling places, then that 12 13 would be a good rationale. I think that would be an 14 appropriate rationale. But cherry-picking a place where 15 it's going to have a highly expected outcome, either very 16 loud or very quiet, I think it's not the proper way to go 17 about it. I think you need, if we're going to do it for 18 health, do it at those five locations, so replicability, modeled to nearby places, nearby homes. And, if there's 19 20 other places that, in retrospect, should have been 21 included, because this is an area with a number of people 22 living there, and it wasn't sampled, and the concern, 23 because of population numbers, therefore, there could be 24 more chance of some negative health effects, then a

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	station there. And, I think that would be a reasonable
2	way to look at it.
3	CHAIRMAN IGNATIUS: Well, let me suggest
4	that we state that "sound testing for the purpose of
5	assessing health impacts", and not try to be any more
6	specific in where those might be and how they be selected,
7	other than it's within the agreement between the Town.
8	And, however the Town wants to define that, who they want
9	to get input on for that, those selections between the
10	Town and the Applicant, a minimum of three additional
11	spots, as well as the L1 through L5. Is that acceptable
12	to everyone?
13	MS. BAILEY: Yes.
14	CHAIRMAN IGNATIUS: All right.
15	MR. IACOPINO: There was also a
16	discussion about I think of it as a "contour map", based
17	on extrapolations of the post-construction findings. Is
18	that also part of what you want in the study?
19	MS. BAILEY: Has that been done in the
20	has that been required in the past?
21	MR. IACOPINO: I don't think it was
22	technically required in Groton. But I know that
23	Mr. Boisvert just mentioned it. So, that's why I just
24	wanted to know whether that's included in what you're
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	looking for here.
2	MS. BAILEY: So, you're talking about
3	they take the data from eight points, and then they use a
4	model to figure out where it would be everywhere, so that
5	you get that map with the bands?
6	MR. IACOPINO: Yes. Well, that's how I
7	interpreted what Mr. Boisvert had said, something similar
8	to that. But what you want to do is fine. I'm just
9	asking if that's part of what you all agreed to, so that I
10	can appropriately write down the condition.
11	MS. BAILEY: I think producing that map,
12	so we could look at it and compare it to what was
13	predicted, would be a good idea.
14	CHAIRMAN IGNATIUS: I want to disagree
15	with that, throw this out. I think the plan should not be
16	that it all comes back to us to make sense of. It may be
17	that there's a complaint or a compliance issue down the
18	road that does come back, but we try not to assume that.
19	And, that and, if the purpose of mapping it is so that
20	we can make sense of it, then I really would push against
21	that. If the purpose of the mapping is so that people in
22	the community can make sense of it, then I have less
23	concern, although a little bit of concern, I don't know
24	what the cost and burden of undertaking that is. And, if
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	what we're really dealing with is the implementation of
2	the standard and real operational experience and any
3	complaints that come forward, I think that should be the
4	focus, more than what modeling would tell you the result
5	is.
6	So, I guess I wouldn't see a need to
7	take that extra step to require new modeling. That the
8	test results are the test results, and see where that
9	goes. But I'm open to hearing argument on why that really
10	should be required. I just want to be sure we're not
11	assuming that we're playing a role in any of this, unless
12	something comes forward that requires us to be called back
13	into session to take it on. Dr. Boisvert.
14	MR. BOISVERT: If the data is available,
15	it's been collected at these eight places, and there's a
16	complaint, it would seem to me it would be at the level
17	where the person leveling the complaint would probably
18	have their own experts do that modeling, using, ideally,
19	the model that was used before. And, the burden would be
20	on them to show that there is an adverse effect. So long
21	as that information is readily available, then the model
22	doesn't have to be created, but the information needs to
23	be there. Because the person leveling the complaint may
24	be, you know, off at a distance somewhat between two
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	monitoring stations, and not particularly near either one,
2	but they have to be able to show that their location is
3	that there be no hill in the way between them and the
4	towers. But, basically, the information is there, it's
5	been collected, and it's their responsibility to then use
6	it however they might, but have access to the data to make
7	their case.
8	MS. BAILEY: I agree. I confess, I was
9	thinking "oh, I'd really like to see it." But, you're
10	right, I don't need to see it. We're finished when we're
11	finished here. And, as long as the data is available, I
12	agree with Dr. Boisvert. So, thank you for your
13	experience, madam Chairman.
14	CHAIRMAN IGNATIUS: All right. Anyone
15	else? Are we okay with the testing conditions we just
16	laid out? Not require further modeling as a condition of
17	our certificate?
18	(No verbal response)
19	CHAIRMAN IGNATIUS: I see no objection
20	to that, okay. Then, infrasound. Mr. Stewart.
21	DIR. STEWART: Want me to close the
22	loop, because I left it open earlier? The "L night", I
23	found the definition in the WHO Night Guidelines. And,
24	it's "the equivalent outdoor sound pressure level
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	associated with the particular type of noise source during
2	nighttime (at least eight hours), calculated over a period
3	of a year." So, that is an annual, I wouldn't say
4	"average", because I'm not sure that's what we do with
5	sound, but it is an annual standard.
6	MS. BAILEY: So, you confirmed Mr.
7	O'Neal's testimony?
8	DIR. STEWART: Yes.
9	MS. BAILEY: Thank you.
10	CHAIRMAN IGNATIUS: But, in this case,
11	we're not going to do that form of measurement. It's
12	going to be the more standard we've done in the past.
13	DIR. STEWART: No, I understand that. I
14	left that open earlier.
15	MS. BAILEY: I appreciate that.
16	CHAIRMAN IGNATIUS: Thank you.
17	MS. BAILEY: Actually, I think I read
18	that yesterday. I think I had that in my notes. We just
19	didn't get it.
20	CHAIRMAN IGNATIUS: All right. So, on
21	the issue of the low frequency, very low frequency sound,
22	remind us, Ms. Bailey, of the question that we didn't
23	resolve yesterday and where to pick that up.
24	MS. BAILEY: I think the question is,
-	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	"do people think that this is or could cause a health
2	impact?" And, there was very differing opinions between
3	Mr. O'Neal, the Applicant's sound expert, and Mr. James,
4	the North Branch Intervenors' sound expert, with Mr. Tocci
5	sort of being in the middle. So, I don't think that
6	there's scientific evidence yet. I agree with what
7	Mr. Simpkins said yesterday, "at some point, you have to
8	think about when to start thinking about it." I think the
9	evidence is warning us that this could be a problem, which
10	has not yet been fully diagnosed. There isn't scientific
11	proof that very low frequency sound or infrasound cause
12	widespread health impacts at this point in time.
13	So, what I was thinking about is, maybe
14	if we ask the Applicant to do one-third octave band
15	testing at the post-construction survey, we'll have the
16	data to identify the low frequencies and the very low
17	frequencies. And, then, if somebody says that "this is
18	causing a health impact", we'll have some data. And, I
19	mean, we don't know what this turbine is going to produce
20	at low frequencies. We have no idea. So, that's my
21	thinking.
22	CHAIRMAN IGNATIUS: Mr. Dupee.
23	MR. DUPEE: Thank you, madam Chair. I
24	concur with the comments made by the other Committee
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	member here. It would be useful to have some information
2	available, should there be a future need.
3	CHAIRMAN IGNATIUS: Any other comments?
4	(No verbal response)
5	CHAIRMAN IGNATIUS: Are people
6	supportive of that recommendation, that when the
7	post-construction sound testing is done, that it include
8	that one-third octave band testing to be able to have the
9	data available? Ms. Lyons.
10	MS. LYONS: I agree. And, it also sets
11	a baseline. So, if there's future action, we have a
12	baseline.
13	CHAIRMAN IGNATIUS: I'm supportive of
14	that. I think we want to be clear, though, that we're not
15	setting a limit. We're not it's really a baseline that
16	may be useful for discussions, you know, a year or two or
17	five years down the road, and may be part of discussions
18	in Antrim or discussions in some other part of the state.
19	But, if testing is being done anyway, then that's and,
20	apparently, you can do those tests. Mr. James, you know,
21	identified sound studies that differentiated in that way,
22	and that would be useful, I think, in building the
23	knowledge base about these very low frequency sounds. So,
24	I'm supportive of that. Dr. Boisvert.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	MR. BOISVERT: I agree. And, thinking
2	that there may be an objection that this is a burden that
3	this Applicant has that others have not had. And, this
4	Applicant has also benefited from other baseline studies,
5	birds and bats, that sort of thing, that we are constantly
6	looking back to precedent. "What did we say at Groton"?
7	"What did we say at Lempster?" What was the the
8	conditions in one place or another. The siting precedent
9	is embedded deeply into the testimony that I've read so
10	far. And, it uses this baseline information from other
11	categories. This is a health issue. That, if there's a
12	question out there, let's see if we can find the answer,
13	and I believe it's completely reasonable and defensible,
14	from the standpoint that the Applicant has benefited from
15	other people's baseline work.
16	CHAIRMAN IGNATIUS: Mr. Dupee.
17	MR. DUPEE: Thank you, madam Chair. I
18	think we had a discussion yesterday about certain wildlife
19	matters, and we said the current intention of the
20	Committee is not to create sort of collateral benefits.
21	And, I wouldn't ask the Applicant
22	(Court reporter interruption.)
23	MR. DUPEE: I'm not going to ask the
24	Applicant to do things that just created a collateral
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	benefit. In other words, there would be a direct and
2	tangible relationship between what we ask the Applicant to
3	do. So, I think I would sort of reframe things a bit
4	here, and say that we want this data to be available to
5	help this particular site, in the event information
6	becomes available in the future that suggest the levels of
7	sound are of concern, and don't use a research project or
8	a general benefit project. And, again, I say this because
9	the other day we made clear that it was not the intention
10	of this Committee.
11	CHAIRMAN IGNATIUS: All right. That's a
12	good point. Is everyone supportive of the octave band
13	testing that we've discussed as part of the
14	post-construction, the one-third octave, as part of the
15	post-construction sound testing that we just agreed to?
16	All right. I see "yes", nods all around. All right.
17	Thank you.
18	I was just checking with Mr. Iacopino,
19	on whether he thought we left any gaps out, and he didn't.
20	I think the only thing to be to reiterate, and I
21	believe Ms. Bailey said it, that we don't have a
22	conclusion, we're not reaching a finding that there are
23	health benefits health risks, as a result of these very
24	low frequency sounds. As she said, the evidence is mixed,
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	and doesn't seem, at this point, to support a finding of
2	health risks.
3	But it's definitely a controversy. And,
4	there are some who believe that there are health
5	consequences from these sounds. And, so, I think we are
6	trying to be responsive to the evidence that we heard.
7	We, you know, we come to a conclusion that it just isn't
8	there yet, but it can't be dismissed as "non-existence".
9	That there are some concerns and that these issues are
10	evolving quickly, and this one may continue to evolve to
11	become more of a consideration to be concerned about or
12	less as more data comes forward.
13	All right. The next topic to take up in
14	the "health and safety" category?
15	MS. BAILEY: Shadow-flicker. Mr.
16	Guariglia testified on behalf of the Applicant that, and
17	he starts by saying by defining what it is. So, I'll
18	just cover that to remind everyone. According to Mr.
19	Guariglia, shadow-flicker is when rotating blades of wind
20	turbines result in shadows moving across nearby structures
21	and the surrounding landscape. "When the repeating change
22	of light intensity falls across a narrow opening, such as
23	a window, it can cause a flicker affect within the
24	structure." This effect is known as "shadow-flicker" and
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	only occurs within a structure. The phenomenon is limited
2	to within ten turbine diameters. And, the turbine
3	diameter on these machines is 116 meters. So, it's 1,160
4	feet. Because, beyond that, the intensity of the shadow
5	is negligible. It only occurs "during daylight hours when
6	the Sun is low in the sky, shortly after sunrise or before
7	sunset." There isn't any fog or overcasts, which prevent
8	shadows. And, "turbine shadows can enter a structure
9	through unshaded windows that face the turbine."
10	According to Saratoga Associates, it
11	used a widely accepted software package, WindPRO, to model
12	the effects of shadow-flicker. The study determined that
13	only one receptor, Ms. Longgood's residence, is predicted
14	to experience more than 20 hours of shadow-flicker a year.
15	However, according to the visual impact analysis, this
16	residence will not have a view of the turbines, and,
17	therefore, cannot experience shadow-flicker. If it does,
18	however, Mr. Guariglia argues the number of hours is less
19	than the standard used to indicate health effects of 30
20	hours per year.
21	The report concludes that there are 36
22	receptors within the ten-turbine diameter distance; 19 of
23	those may experience shadow-flicker, but the turbines can
24	be seen from only two of them. And, those two receptors
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	are predicted to experience less than ten minutes a year.
2	Thus, the Applicant concludes that shadow-flicker will not
3	have an unreasonable adverse impact on health.
4	Ms. Longgood testified that her quote,
5	and this is a quote, "home is oriented to look out over
6	the beaver pond, look out over the ridge, all of the large
7	windows, the deck, orchards, and the hot tub are all
8	looking out into the woods. So, as you drive down the
9	driveway, there are not a lot of windows. They're mostly
10	facing the east, facing the ridge, looking out over the
11	beaver pond." And, that was Day 9, afternoon, Page 19.
12	She argued it appears shadow-flicker
13	will have a significant impact on her family. She does
14	not wish to shade her windows or live in an industrial
15	zone where flickering shadows will be present outside as
16	well.
17	I apologize. There's a new operating
18	system on this PC, and it's driving me crazy, I'm not
19	familiar with it. So, I hit a button and something
20	happens that wasn't supposed to happen.
21	Okay. The North Branch Group takes
22	issue with arbitrarily delineated computer models used to
23	define potential flicker zones, and does not believe the
24	impact can be so precisely drawn. So, that's the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	testimony that we have on it.
2	And, I think the question is,
3	Mr. Guariglia says that his visual impact study suggests
4	that Ms. Longgood won't see it, and Ms. Longgood says
5	"that's what I look at." I don't know how we square those
6	two things. And, Mr. Guariglia's testimony is that, even
7	if the visual impact assessment is wrong, she's only going
8	to get it 20 hours a year, 21.
9	CHAIRMAN IGNATIUS: Mr. Simpkins.
10	DIR. SIMPKINS: And, just a question.
11	There's no, other than shades or some type of screening,
12	there's no mitigation for shadow-flicker? You'd have to
13	be at the receptor spot?
14	MS. BAILEY: Yes, I believe that's
15	correct. And, the other thing that came to light when I
16	was reviewing the testimony is that it only counts when
17	it's inside. So, for health impacts. So, the flicker
18	outside, which Ms. Longgood testified would be "very
19	annoying" to her, doesn't cause a health impact. The
20	health impact is within the structure. And, so, shades, I
21	think, are the mitigating thing.
22	CHAIRMAN IGNATIUS: Do you recall why
23	the health impact is considered only indoors, and why
24	there isn't a discussion of possible health impact when
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	you're out-of-doors?
2	MS. BAILEY: There was no discussion
3	that I saw on that. It may have to do with the intensity
4	of the light that causes the health impact. But I'm
5	but I don't think there's good testimony on that.
6	CHAIRMAN IGNATIUS: And, is part of it
7	that, because the light is passing through an open door or
8	a window, you have more of a on/off sense of what the
9	light is doing, than if you're outdoors and it's the
10	light's coming at you not through a porthole in the same
11	way? The blades may be blocking the light, but you're
12	receiving light from so many other around the blade in so
13	many ways that you just don't have the same impact?
14	MS. BAILEY: That's my sense of it. But
15	this is the first time I've ever looked at this, and I
16	think that's right.
17	CHAIRMAN IGNATIUS: Mr. Simpkins.
18	DIR. SIMPKINS: Another question. Do we
19	know the number of turbines that cause the flicker,
20	particularly at Ms. Longgood's property? Is it one
21	turbine or is it multiple turbines?
22	MS. BAILEY: I don't know. Let's see if
23	I can find that.
24	CHAIRMAN IGNATIUS: We have that
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	butterfly pattern shadow-flicker diagram, that I believe
2	has everything running simultaneously, does it not? I
3	don't think it's turbine by turbine.
4	MS. BAILEY: I believe so. But that's
5	AWE Exhibit 3, 13B, I think.
6	DIR. SIMPKINS: I'm looking at 13B.
7	There are some maps on there, and they do have graphs
8	showing the patterns for each, each turbine. I believe
9	it's Page 9.
10	CHAIRMAN IGNATIUS: So, I stand
11	corrected. Thank you.
12	MR. IACOPINO: Madam Chair, for the
13	Committee's benefit, I would point out that there was
14	questions posed to Mr. Guariglia on Day 5 of the
15	testimony, in the afternoon, regarding why he discounted
16	the effect of shadow-flicker outdoors. And, that
17	testimony begins on Page 194.
18	CHAIRMAN IGNATIUS: I don't have that
19	pulled up. Can you go back to that? I don't know how
20	long it goes one, but, if it's a page or so, maybe
21	summarize the statements that Mr. Guariglia made.
22	MR. IACOPINO: Sure. The first
23	question, and I'm going to paraphrase the question, then
24	I'll read the answer, I guess. Well, we'll see how it
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	goes. First question was: "You defined "shadow-flicker"
2	as only occurring out" "only occurring indoors,
3	correct?" And, the answer was "yes". And, the next
4	question was: "Why do you discount the effect of the
5	shadow in the outdoors?" The answer is: "I don't think
6	we totally discount it. We do mention that you'll see
7	shadows sweeping across the landscape. The issue, though,
8	that most folks have is the flicker effect. So, that's
9	why, you know, I mean, that's a shadow-flicker analysis.
10	So, that way you want to look at the houses with people
11	inside. That's where it's mostly noticed. The sweeping
12	effect is much less of an issue. However, I would mention
13	that it's not totally discounted, because on here", and I
14	believe he's referring to the report, "you can definitely
15	see where the shadows are going to occur." And, then, I
16	asked him: "And, what are you referring to?" And, he
17	says: "This is Figure 2 of the shadow-flicker report.
18	This shows where the shadows will be passing." And, then,
19	he goes on to explain that they didn't totally discount
20	outdoor shadow-flicker in their report.
21	CHAIRMAN IGNATIUS: So, we have a
22	conclusion from Mr. Guariglia that there will be minimal

pronounced circumstance would be, if it were to occur, it {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

flicker. And, the most, am I correct, that the most

23

1	[DELIBERATIONS]
1	would be Ms. Longgood's residence, and it would be a
2	maximum of 21 hours per year, mostly early morning hours,
3	is that correct?
4	MS. BAILEY: Either early morning or
5	right before sunset.
6	CHAIRMAN IGNATIUS: Okay. Sort of those
7	shoulder hours. And, so, the question is, first, is that
8	a conclusion that you support? Is there evidence to
9	support Mr. Guariglia's conclusion? And, then,
10	secondarily, is it something that, if you do support, find
11	his evidence to be credible, is the potential that he
12	models of the worst case scenario, being 21 hours over the
13	course of a year at the most impacted site, something
14	that's an undue adverse impact on health and safety?
15	Dr. Boisvert.
16	MR. BOISVERT: It could only be in the
17	morning, because the Sun casts the shadow in the opposite
18	direction in the afternoon.
19	CHAIRMAN IGNATIUS: At her particular
20	location?
21	MR. BOISVERT: Correct. If she is
22	facing east, she will only get it at sunrise. At sunset,
23	the Sun is casting the shadow in the opposite direction.
24	So, there would be no shadow-flicker resting on her. One
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	can get the shadow-flicker from a given turbine only at
2	the morning or the evening, you can't get it both.
3	MS. BAILEY: Unless she has a southern
4	exposure, perhaps?
5	MR. BOISVERT: No. The Sun is aiming
б	the shadow the wrong way. At sunset, the Sun is behind
7	her, hitting the turbine and going away. There's no
8	shadow cast back. It can only happen, for any given
9	place, either in the morning or in the evening. Because
10	the Sun, you have to line up the Sun, through the turbine,
11	to the residence. And, that can only happen in the
12	morning or in the evening.
13	CHAIRMAN IGNATIUS: So, for some people,
14	it could be a morning problem, for some it could be an
15	evening problem?
16	MR. BOISVERT: Right. It can only be
17	once a day.
18	MR. DUPEE: That's right.
19	CHAIRMAN IGNATIUS: So, I guess the
20	first question, are people do you have any reason to
21	accept or not accept the modeling that Mr. Guariglia did
22	on this issue? Anyone who takes issue with it?
23	(No verbal response)
24	CHAIRMAN IGNATIUS: It doesn't appear
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	that there is anyone. And, so, then, the next question
2	would be, his conclusion that it's a minimal impact, and
3	that there may be very little observed, and even if it is,
4	it would be, at the worst location, would be 21 hours over
5	the course of a year, at Ms. Longgood's location.
6	Assuming that worst case scenario were to occur, does that
7	constitute an undue adverse impact on health and safety?
8	MS. BAILEY: To be honest, the reason
9	I'm concerned about this is because of his conclusion that
10	"she's not going to see the turbines." That the visual
11	impact analysis says it's not visible.
12	CHAIRMAN IGNATIUS: And, I'm not
13	following the
14	MS. BAILEY: Well, so, if his visual
15	impact analysis says it's not going to be visible, and to
16	me that seems questionable, then is the "21 hour" modeling
17	also questionable? And, there's no evidence to say one
18	way or another. It's just a concern I have, because her
19	testimony seems to indicate that she's going to directly
20	see it.
21	CHAIRMAN IGNATIUS: Is your concern
22	that, if the turbine is not observable from her location,
23	then you couldn't have flicker that's observable at your
24	location, so how could he conclude both that "there won't
-	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	be, but, if there is, it's only going to be 21 hours"?
2	Or, is it something different from that?
3	MS. BAILEY: No, not exactly. Because I
4	think that the shadow-flicker analysis just looks at how
5	far the flicker is going to go, whether there's a mountain
б	in the way or not, I guess. And, then, the visual impact
7	analysis determines where the turbines can be seen. So,
8	if the turbines can be seen from Ms. Longgood's house, the
9	shadow-flicker analysis would suggest she'll get 21 hours.
10	If she can't see it, she won't get anything.
11	And, so, his conclusion from the visual
12	impact analysis, that it's not, you know, that "they can't
13	be seen from her house", is really troubling to me, based
14	on the testimony that we heard. And, so, it puts into
15	question the other analysis in my mind. But I don't have
16	any evidence to say that? Well, maybe the visual impact
17	analysis isn't really sound, but the shadow-flicker is."
18	CHAIRMAN IGNATIUS: Mr. Simpkins.
19	DIR. SIMPKINS: Yes, this is just a
20	thought. And, I haven't thought much about this, so that
21	could be dangerous. But, in looking at the map, Appendix
22	13B, the shadow-flicker map with all the individual
23	turbines, and looking at Ms. Longgood's property, which it
24	appears to be number "80" on the map, off of Salmon Brook
ľ	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	
1	Road. It looks like there's one, maybe two turbines, that
2	would actually be causing the flicker. They look like it
3	would either be Turbine Number 5 or 6. What I'm wondering
4	is, these, since there is a little question about what
5	will be the impact, they're saying it's only 21 hours a
6	year, but these turbines are individually controlled.
7	Would there be some situation where, if she is
8	experiencing that, she could call someone, and they could
9	just shut down that turbine for the time? I mean, it's
10	only 21 hours a year, if their modeling is correct. So, I
11	can't imagine that's going to make much of a difference
12	with one turbine for capacity over the course of a year.
13	But, if it is an issue, because, from
14	what we've been told, they're monitored 24/7, I believe,
15	out of Chicago, plus there's people onsite. So, it seems,
16	for such a small amount of time, if it is an issue, they
17	may be able to just shut that turbine down for the hour or
18	whatever, however long, I guess it can't be much longer,
19	if it's only 21 hours over the course of a year. That's
20	just a thought.
21	CHAIRMAN IGNATIUS: So, it wouldn't be
22	to mandate any curtailment right now, but that, if it were
23	to prove to be a problem, that she identified as a
24	disturbance, that the Applicant would agree to curtail
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	during those flicker minutes or hours to alleviate the
2	problem?
3	DIR. SIMPKINS: Yes, that's kind of what
4	I was thinking here.
5	MS. BAILEY: I'm worried about that a
6	little bit, because I think that, when it happens, it
7	happens for a fairly short period of time. So, by the
8	time it was annoying her, and she called, and they shut it
9	off, it would be over. And, it's not predictable.
10	DIR. SIMPKINS: That, actually, on Page
11	8, Mr. Iacopino just pointed this out to me, it actually
12	they specifically tell you, for Receptor 80, the
13	specific times of the day and the specific months of the
14	year when it will be when it will happen.
15	MS. BAILEY: But only when there's
16	enough sun?
17	DIR. SIMPKINS: Right. When the
18	conditions are
19	MS. BAILEY: Only when all the
20	conditions are met. So, yes. It says "mid November to
21	middle of January, between 8:00 and 9:00 a.m. from Turbine
22	5; late February to early March, between 7:00 a.m. and
23	8:00 a.m., with a limited time between 8:00 and 9:00 a.m.,
24	and again at the beginning of the October to the middle of
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1October, between 7:30 and 8:30 a.m. from Turbine 6; mid2April to the end of April and again mid August to the end3of August, between 7:00 a.m. and 8:00 a.m. from Turbine 7;4and end of April to mid May, between 6:00 a.m. and 7:005a.m., and, again, from the end of July to mid August,6between 6:30 a.m. and 7:30 a.m. from Turbine 8."7So, I guess we could tell them to shut8it off then. But that's a big curtailment, and especially9if the conditions don't create that.10DIR. SIMPKINS: Well, that's why I was11 yes, if it's cloudy or foggy, there's no need to shut12it down. So, that's why I was thinking kind of it would13only be during those times where it's actually creating an14issue.15MS. BAILEY: Does Ms. Longgood have16recourse to come back to the Committee, if this is really17troubling? I mean, you know, the testimony is "at worse,18it's going to be 21 hours a year." Maybe we could see if19it really I guess I'm thinking, is there a way to see20what happens? Since 21 is less than 30, and 30 is the21only testimony that we have about that's where the health22impact is created. So, sort of wait and see what happens,23and then let her bring it back or is that not something24that we do?		
of August, between 7:00 a.m. and 8:00 a.m. from Turbine 7; and end of April to mid May, between 6:00 a.m. and 7:00 a.m., and, again, from the end of July to mid August, between 6:30 a.m. and 7:30 a.m. from Turbine 8." So, I guess we could tell them to shut it off then. But that's a big curtailment, and especially if the conditions don't create that. DIR. SIMPKINS: Well, that's why I was yes, if it's cloudy or foggy, there's no need to shut it down. So, that's why I was thinking kind of it would only be during those times where it's actually creating an issue. MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	1	October, between 7:30 and 8:30 a.m. from Turbine 6; mid
and end of April to mid May, between 6:00 a.m. and 7:00 a.m., and, again, from the end of July to mid August, between 6:30 a.m. and 7:30 a.m. from Turbine 8." So, I guess we could tell them to shut it off then. But that's a big curtailment, and especially if the conditions don't create that. DIR. SIMPKINS: Well, that's why I was yes, if it's cloudy or foggy, there's no need to shut it down. So, that's why I was thinking kind of it would only be during those times where it's actually creating an issue. MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	2	April to the end of April and again mid August to the end
a.m., and, again, from the end of July to mid August, between 6:30 a.m. and 7:30 a.m. from Turbine 8." So, I guess we could tell them to shut it off then. But that's a big curtailment, and especially if the conditions don't create that. DIR. SIMPKINS: Well, that's why I was yes, if it's cloudy or foggy, there's no need to shut it down. So, that's why I was thinking kind of it would only be during those times where it's actually creating an issue. MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	3	of August, between 7:00 a.m. and 8:00 a.m. from Turbine 7;
 between 6:30 a.m. and 7:30 a.m. from Turbine 8." So, I guess we could tell them to shut it off then. But that's a big curtailment, and especially if the conditions don't create that. DIR. SIMPKINS: Well, that's why I was yes, if it's cloudy or foggy, there's no need to shut it down. So, that's why I was thinking kind of it would only be during those times where it's actually creating an issue. MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something 	4	and end of April to mid May, between 6:00 a.m. and 7:00
7So, I guess we could tell them to shut8it off then. But that's a big curtailment, and especially9if the conditions don't create that.10DIR. SIMPKINS: Well, that's why I was11 yes, if it's cloudy or foggy, there's no need to shut12it down. So, that's why I was thinking kind of it would13only be during those times where it's actually creating an14issue.15MS. BAILEY: Does Ms. Longgood have16recourse to come back to the Committee, if this is really17troubling? I mean, you know, the testimony is "at worse,18it really I guess I'm thinking, is there a way to see20what happens? Since 21 is less than 30, and 30 is the21only testimony that we have about that's where the health22impact is created. So, sort of wait and see what happens,23and then let her bring it back or is that not something	5	a.m., and, again, from the end of July to mid August,
<pre>8 it off then. But that's a big curtailment, and especially 9 if the conditions don't create that. 10 DIR. SIMPKINS: Well, that's why I was 11 yes, if it's cloudy or foggy, there's no need to shut 12 it down. So, that's why I was thinking kind of it would 13 only be during those times where it's actually creating an 14 issue. 15 MS. BAILEY: Does Ms. Longgood have 16 recourse to come back to the Committee, if this is really 17 troubling? I mean, you know, the testimony is "at worse, 18 it's going to be 21 hours a year." Maybe we could see if 19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something</pre>	6	between 6:30 a.m. and 7:30 a.m. from Turbine 8."
9 if the conditions don't create that. DIR. SIMPKINS: Well, that's why I was yes, if it's cloudy or foggy, there's no need to shut it down. So, that's why I was thinking kind of it would only be during those times where it's actually creating an issue. MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	7	So, I guess we could tell them to shut
10DIR. SIMPKINS: Well, that's why I was11 yes, if it's cloudy or foggy, there's no need to shut12it down. So, that's why I was thinking kind of it would13only be during those times where it's actually creating an14issue.15MS. BAILEY: Does Ms. Longgood have16recourse to come back to the Committee, if this is really17troubling? I mean, you know, the testimony is "at worse,18it's going to be 21 hours a year." Maybe we could see if19it really I guess I'm thinking, is there a way to see20what happens? Since 21 is less than 30, and 30 is the21only testimony that we have about that's where the health22impact is created. So, sort of wait and see what happens,23and then let her bring it back or is that not something	8	it off then. But that's a big curtailment, and especially
11 yes, if it's cloudy or foggy, there's no need to shut 12 it down. So, that's why I was thinking kind of it would 13 only be during those times where it's actually creating an 14 issue. 15 MS. BAILEY: Does Ms. Longgood have 16 recourse to come back to the Committee, if this is really 17 troubling? I mean, you know, the testimony is "at worse, 18 it's going to be 21 hours a year." Maybe we could see if 19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	9	if the conditions don't create that.
<pre>12 it down. So, that's why I was thinking kind of it would 13 only be during those times where it's actually creating an 14 issue. 15 MS. BAILEY: Does Ms. Longgood have 16 recourse to come back to the Committee, if this is really 17 troubling? I mean, you know, the testimony is "at worse, 18 it's going to be 21 hours a year." Maybe we could see if 19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something</pre>	10	DIR. SIMPKINS: Well, that's why I was
only be during those times where it's actually creating an issue. MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	11	yes, if it's cloudy or foggy, there's no need to shut
14 issue. 15 MS. BAILEY: Does Ms. Longgood have 16 recourse to come back to the Committee, if this is really 17 troubling? I mean, you know, the testimony is "at worse, 18 it's going to be 21 hours a year." Maybe we could see if 19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	12	it down. So, that's why I was thinking kind of it would
MS. BAILEY: Does Ms. Longgood have recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	13	only be during those times where it's actually creating an
recourse to come back to the Committee, if this is really troubling? I mean, you know, the testimony is "at worse, it's going to be 21 hours a year." Maybe we could see if it really I guess I'm thinking, is there a way to see what happens? Since 21 is less than 30, and 30 is the only testimony that we have about that's where the health impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	14	issue.
17 troubling? I mean, you know, the testimony is "at worse, 18 it's going to be 21 hours a year." Maybe we could see if 19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	15	MS. BAILEY: Does Ms. Longgood have
18 it's going to be 21 hours a year." Maybe we could see if 19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	16	recourse to come back to the Committee, if this is really
19 it really I guess I'm thinking, is there a way to see 20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	17	troubling? I mean, you know, the testimony is "at worse,
20 what happens? Since 21 is less than 30, and 30 is the 21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	18	it's going to be 21 hours a year." Maybe we could see if
21 only testimony that we have about that's where the health 22 impact is created. So, sort of wait and see what happens, 23 and then let her bring it back or is that not something	19	it really I guess I'm thinking, is there a way to see
impact is created. So, sort of wait and see what happens, and then let her bring it back or is that not something	20	what happens? Since 21 is less than 30, and 30 is the
23 and then let her bring it back or is that not something	21	only testimony that we have about that's where the health
	22	impact is created. So, sort of wait and see what happens,
24 that we do?	23	and then let her bring it back or is that not something
	24	that we do?

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	CHAIRMAN IGNATIUS: Well, we can
2	structure something that has it come back to us or has it
3	come back to some other entity. You know, for example,
4	yesterday, we talked about giving Fish & Game ultimate
5	decision-making over a certain plan. Sometimes we have
6	things that go back, that we just talked about, the
7	location of the post-construction sound testing being
8	worked out with the Town. You could create you could
9	designate someone to receive any complaints and try to
10	resolve them. Say that it be, you know, that the
11	Applicant agree to, you know, a curtailment, after
12	consultation with, you know, with X, with someone within
13	the Division of Health and Human Services from the state,
14	similar to the Fish & Game theory, or within the Town or
15	within the Town I don't know if they have a health
16	officer or not. And, I think we can create the mechanism
17	we want. I think it's the most difficult to assume that
18	we have to reconstitute as a group to receive anything.
19	This is a very cumbersome process, and it won't
20	necessarily be the same people, because other people won't
21	be available or will be doing different things at that
22	point. So, you don't want to assume that it's the nine of
23	us again, but it could be a newly constituted Subcommittee
24	or it could be the Site Evaluation Committee as a whole,
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1		
1	as we have with some issues in another project scheduled	
2	2 for a couple of weeks from now on some compliance issue	
3	My preference is that it not be to come	
4	4 back to us necessarily. I think there's, whenever any o	
5	these sorts of projects are underway, there's going to be	
6	issues to work out over time. And, the more the	
7	relationship is between the operator and the community,	
8	8 the better. And, the role of the SEC would be to step i	
9	if necessary, but not as the first line of recourse.	
10	I think the data that at worst you would	
11	have these periods of time from various turbines over a	
12	matter of minutes, and possibly an hour, for most of the	
13	months of the year, except for June and July, it looks,	
14	when the conditions are sunny enough, and the winds are	
15	there to be causing the turbines to be spinning, could be	
16	dealt with as was suggested. That an understanding that,	
17	if that is happening and proven to be difficult for Ms.	
18	Longgood, or people in her home, that there could be a	
19	plan on how to curtail during those periods.	
20	That's all assuming that 21 hours of	
21	flicker is something that we consider a health issue.	
22	And, I don't think we've really reached that yet. We've	
23	talked about it being a fact that could happen, according	
24	to the testimony of Mr. Guariglia. But we haven't talked	
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}	

[DELIBERATIONS]

1	about whether, if it does happened as scheduled, we talked
2	about a way you could alleviate it, but we still sort of
3	have not accepted the notion that that is a health
4	causes a health problem.
5	MS. BAILEY: The other thing that we
6	that's a possibility is that the visual impact analysis is
7	correct, and that the trees in front of her house are

going to block it somehow, you know, the 40-footvegetation that they assumed in the visual impact

10 analysis. So, I kind of think there's a couple of things. 11 We should wait and see. And, also, I know that this is an 12 inconvenience, but, in the morning, she could close the 13 blinds or the shades. And, you know, maybe the Applicant 14 should have to pay to get nice shades, I don't know. But 15 I think she said she didn't want to do that. But, I mean, 16 it's -- it's 8:00 to 9:00, 7:00 to 8:00 in the morning.

17 CHAIRMAN IGNATIUS: Dr. Boisvert, yes. 18 MR. BOISVERT: As I look at this chart, it seems to me that this is one of the things that is 19 20 eminently predictable as to if it could possibly occur. 21 Because the Sun needs to be in a very specific place to be in line with the blades of the turbine to her house. 22 And, 23 it can be modeled, it can be predicted very well, in terms 24 of a straight line. The question of vegetation is just {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	that, a question. There might be some in there.
2	But, as I look at this chart, and I
3	can't see the page number on here, Page 8, roughly
4	speaking, there would be the opportunity for some
5	shadow-flicker for slightly less than half of the year.
6	That shadow-flicker, if you look at the vertical bar,
7	indicates that the time for the Sun to pass behind the
8	turbines looks to me about 20 minutes, maybe half an hour
9	on the outside. So, that is the potential extent. Then,
10	there's the issue of cloudy days. So, I think the 21 hour
11	estimate, if it's calculated accurately, and I think it
12	and it should be, it looks eminently calculable, would be
13	the maximum amount of the year.
14	I would believe that it will be a
15	portion under that, because we have the clouds and the
16	fog, etcetera. And, that drops it well below the 21
17	hours.
18	Is this an unreasonable health effect?
19	If we use the WHO standards as a guideline for sound,
20	then, I think we can reasonably use those, the same
21	organization standards for the flicker, and this comes in
22	under their standard. So, I would have to stand behind
23	the proposition that there's no unreasonable adverse
24	effect here.

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	That said, there could be some
2	mitigative efforts. Not running the turbines for certain
3	periods of time would be one of them. Putting up blinds
4	would be another. I think that would then become an issue
5	between whoever complains and the Applicant. And, I don't
6	know if we should leave a door open from our deliberations
7	for that. But, if we can't, then I would have to stand
8	behind the notion that there's no unreasonable adverse
9	effect, because of the limited time.
10	MS. BAILEY: Can I ask a question?
11	CHAIRMAN IGNATIUS: Yes.
12	MS. BAILEY: Can you show me where the
13	did you check the WHO guidelines?
14	MR. BOISVERT: No, I did not.
15	MS. BAILEY: But is there someplace in
16	the record that says that's where that 30 hours comes
17	from?
18	MR. BOISVERT: I recall it from our
19	discussion earlier this morning, there were some
20	guidelines. And, I thought it was 40 hours.
21	MS. BAILEY: The testimony was "30
22	hours".
23	MR. BOISVERT: Thirty hours.
24	MS. BAILEY: And, I don't know where it
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

-	[DELIBERATIONS]
1	came from.
2	MR. BOISVERT: Okay. I don't.
3	MS. BAILEY: Okay.
4	CHAIRMAN IGNATIUS: Ms. Bailey, do you
5	remember the
6	MS. BAILEY: Maybe Mr. Green knows.
7	CHAIRMAN IGNATIUS: the location of
8	the "30 hour" limit?
9	MS. BAILEY: It was in Mr. Guariglia's
10	testimony.
11	CHAIRMAN IGNATIUS: Mr. Green.
12	MR. GREEN: I was just going to mention
13	that, in the Applicant's post hearing brief they referred
14	to that "30 hours of flicker per year as an allowable
15	threshold", and it based on it was based on many
16	countries, European countries. And, then, they give an
17	example AWE 3, Appendix 13B. So, I think it was in that.
18	And, then, if I may, I do have a little
19	bit of a question. If there were a picture of
20	Mrs. Longgood's homesite? Because it would be helpful to
21	know whether or not she's surrounded by trees, and to what
22	degree those trees would block the view of the turbines.
23	Because, when they did the model, it says here that they
24	"conservatively assumed that every receptor had windows",
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1		
1	and that "the area lacks screening and vegetation and	
2	structures." And, then, it says: "More importantly, if	
3	the turbines are actually screened by trees or other	
4	structure, then shadows should not occur or should occur	
5	less frequently where turbines are substantially screened	
6	6 by the vegetation."	
7	So, I guess my question is, how	
8	substantial is that vegetation around the area of Ms.	
9	Longgood's house? And, is it enough to block the concern	
10	of that shadow-flicker occurring?	
11	MS. BAILEY: And, I don't know. You	
12	know, I looked for her testimony on that point, and that's	
13	what I read.	
14	MR. GREEN: Yes.	
15	CHAIRMAN IGNATIUS: On the question of	
16	whether the sort of maximum worst-case scenario of 21	
17	hours over the course of the year, whether that	
18	constitutes an adverse health effect, I can't conclude	
19	that it does. It's likely to be less than that. But,	
20	even if it, just because of days of cloud or days of no	
21	wind, but, even if it were that, the only evidence we have	
22	in the record of possible health impacts is "30 hours".	
23	And, this is well below that. I can't conclude, with that	
24	finding, that it constitutes an adverse health effect.	
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}	

1	If there were an agreement to offer	
2	shading, you know, interior blinds of some sort, at the	
3	expense of the Applicant, I certainly wouldn't oppose	
4	that. I don't think that was something Ms. Longgood said	
5	she was interested in, but that seems to be a reasonable	
6	accommodation. I wouldn't call it a "mitigation", because	
7	I don't think there's a problem to be mitigated of a	
8	health perspective, but an annoyance, certainly. And, so,	
9	an accommodation of that, I think, is fair.	
10	To state that the turbines have to be	
11	curtailed during all of the times that there's a potential	
12	according to the mapping, I think is too extreme. And, to	
13	I think, if there ended up being a complaint from Ms.	
14	Longgood or anyone else, that the flicker is causing real	
15	distress, then we would, in my view, we would have to take	
16	a complaint, evaluate whether curtailment is appropriate.	
17	But I wouldn't assume that and wouldn't write that in as	
18	an automatic change in operations, because of a potential	
19	that, to me, is fairly limited and somewhat remote in its	
20	likelihood of being a real problem.	
21	Others' views on this? I realize that	
22	you may have a very different conclusion than I do, and	
23	I'm not trying to steer you to my point of view. I'm just	
24	sort of going around saying how we feel. Ms. Bailey.	
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}	

	[DELIBERATIONS]	
1	MS. BAILEY: Just so the record or our	
2	record is clear. Exhibit 13B is the Saratoga Associates'	
3	shadow-flicker analysis, and the "30 hours" is in the	
4	summary. So, this is the evidence that we have.	
5	"However" on the standard of health impacts. "However,	
6	many European countries have identified 30 hours of	
7	shadow-flicker as an allowable threshold; anything above	
8	8 this would be considered a nuisance and require	
9	mitigation. Absent rule or state guidance, 30 hours per	
10	year has been used as a threshold in which mitigation	
11	measures may be considered in potentially reducing the	
12	amount of shadow hours on a particular receptor. This	
13	threshold has been used in many municipalities across the	
14	United States."	
15	Do you know, Mr. Iacopino, if the	
16	threshold has been established in any other record of this	
17	Committee? Has shadow-flicker ever been a concern?	
18	MR. IACOPINO: Shadow-flicker has been	
19	dealt with in every I believe in every case that the	
20	Committee has handled with respect to wind turbines. I	
21	think the measurements my recollection is that the	
22	amounts of time that various receptors were going to be	
23	subject to shadow-flicker in all of our prior cases was	
24	very minimal, and that that was the finding that was made,	
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}	

	[DELIBERATIONS]
1	and no conditions were imposed.
2	I can't tell you if there was evidence
3	in those prior records about what the standard should be,
4	because I just don't remember.
5	MS. BAILEY: Okay. So, I think there
6	isn't a great standard or a well-established standard.
7	But I agree with Ms. Ignatius, Chairman Ignatius, that
8	there's nothing in the record that says this standard
9	isn't reasonable, the "30 hours".
10	CHAIRMAN IGNATIUS: Other comments,
11	where you come out on this question?
12	(No verbal response)
13	CHAIRMAN IGNATIUS: All right. Well, I
14	don't know what to take silence to mean. So, let me ask
15	it more pointedly.
16	MR. IACOPINO: Mr. Stewart wants to
17	speak.
18	CHAIRMAN IGNATIUS: Mr. Stewart is going
19	to bring us clarity.
20	DIR. STEWART: I am not. Again, I was
21	digging around trying to find the European, and, what I
22	found, actually, was a New Hampshire Office of Energy and
23	Planning, a Powerpoint
24	CHAIRMAN IGNATIUS: I'm a little
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	concerned about
2	DIR. STEWART: Okay. I'm sorry.
3	CHAIRMAN IGNATIUS: doing our own
4	research right now. Things that have been referenced in
5	testimony and
6	DIR. STEWART: Yes. I was trying to
7	find what the European citation was. I'll stop.
8	CHAIRMAN IGNATIUS: I appreciate it. I
9	mean, I think it's we're trying to make the best of
10	what we have, and, you know, in retrospect, we all wished
11	we had asked more questions when people were on the stand.
12	We've got references to "European standards", it's pretty
13	broad. It's a little hard to track down what that means.
14	But I think we do have to be careful with any development
15	of new facts at this stage of the game. So,
16	DIR. STEWART: Okay.
17	CHAIRMAN IGNATIUS: Let me ask you more
18	directly. Are people of the view that, if the 21 hours
19	per year were to occur, that that would constitute an
20	adverse health impact? Show of hands?
21	(No indication given.)
22	CHAIRMAN IGNATIUS: Okay. There's no
23	one raising their hands. Are people satisfied with using
24	the 30 hour per year shadow-flicker standard as acceptable
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	in this case? Does any a show of hands? Yes?
2	MS. LYONS: Yes.
3	CHAIRMAN IGNATIUS: I think we
4	Ms. Bailey?
5	MS. BAILEY: I don't think there's
6	enough evidence to conclude that that's a good standard.
7	But I also don't think there's enough evidence to conclude
8	that there's going to be a health impact. So, I would
9	rather leave it like that.
10	CHAIRMAN IGNATIUS: Okay. And, if we
11	are not concluding that 21 hours constitutes the
12	potential of 21 hours of the worst possible scenario
13	constitutes an adverse health effect, do we nevertheless
14	want to set any conditions related to any kind of
15	accommodation of that flicker? And, if so, what might a
16	condition be? Or, remain silent on the issue of flicker?
17	Ms. Lyons.
18	MS. LYONS: I'd like to remain silent on
19	it. I don't think that I don't know that there's
20	enough evidence that it is a health hazard and that it
21	requires mitigation.
22	CHAIRMAN IGNATIUS: All right. Others?
23	Mr. Robinson?
24	MR. ROBINSON: I would completely agree
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	with that. Yes. I completely agree with Ms. Lyons on
2	that.
3	CHAIRMAN IGNATIUS: Others?
4	MS. BAILEY: I guess, while I'm
5	sympathetic to Ms. Longgood, the impact that this Project
б	may have on Ms. Longgood's house, the law doesn't, if
7	we're making a finding that this not going to have a
8	health impact, then the law doesn't really allow us to, I
9	don't think, to create a condition, when there isn't a
10	health impact, to do anything about it. You know, the law
11	doesn't say "if it's a pain-in-the-neck, you have the
12	right to do something." Is that correct, Mr. Iacopino?
13	MR. IACOPINO: No. You could condition,
14	you could issue a condition, similar to the one that was
15	issued in Groton Wind, with respect to the campsite the
16	campground. You do have the authority under RSA 162-H:4,
17	I believe it is, to condition the Certificate. And, I
18	believe that you could, if you wanted to condition
19	something with respect to Ms. Longgood's house, if the
20	Committee were to be of that mind, you could do that.
21	It's up to you all whether that's something that you wish
22	to do for one particular residence in the overall region.
23	CHAIRMAN IGNATIUS: What's your
24	preference?
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1 2	MS. BAILEY: Can we put that one on
2	
	hold?
3	CHAIRMAN IGNATIUS: Okay.
4	MS. BAILEY: Come back to it?
5	MS. LYONS: I still stand on my previous
б	statements.
7	CHAIRMAN IGNATIUS: Dr. Boisvert.
8	MR. BOISVERT: I, too, will stand on my
9	previous statement. If there were many, many people in
10	line, and the amount of time was greater, then I could
11	conceive of a situation where there would be an adverse
12	health effect. The limited time, the limited number of
13	people, even in the calculation of a most extreme case, I
L4	don't see rises to the level of an adverse health effect.
15	And, that's not to say there might not
16	be another wind farm, another situation, where it wouldn't
17	rise to that level. But I struggle to come up with a
18	scenario where it would for Antrim Wind. So, I don't see
19	that we there is a need to condition the permit on this
20	topic.
21	CHAIRMAN IGNATIUS: All right. It
22	sounds like everyone is in agreement that it is not
23	something that we're finding is an adverse health impact.
24	And, the only question is, it may be something of an

1	annoyance, and should there be any offer of an
2	accommodation on that front, that maybe we set aside to
3	come back to, is that right?
4	All right. Then, what's our next topic?
5	MR. PATNAUDE: A break?
6	CHAIRMAN IGNATIUS: Oh. Yes. Our next
7	topic is to give the court reporter a break. It's five
8	minutes of 11:00 right now. So, why don't we break, and
9	resume at 11:10, ten minutes after 11:00. Thank you.
10	(Recess taken at 10:57 a.m. and the
11	deliberations resumed at 11:17 a.m.)
12	CHAIRMAN IGNATIUS: All right. Thank
13	you. We're back on the record. The next, we're still in
14	the category of "health and safety", and finished with the
15	shadow-flicker discussions, but for the question of coming
16	back a little bit later, think a little bit more about
17	whether we want any sort of accommodation condition
18	imposed. The next topic, Ms. Bailey, is which?
19	MS. BAILEY: "Other safety issues", and
20	I don't believe these are contentious.
21	The Applicant provided information that
22	the Project would not pose an unreasonable risk to public
23	health and safety as a result of ice-shedding, tower
24	collapse, blade throw, hazardous waste, or stray voltage
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

[DELIBERATIONS]	
from electrical storms, fire, and aviation safety. And,	
these items are explained in AWE-1 and have not been	
disputed. Some of the items are also covered by permits	
from State agencies.	
The Applicant says "Potential risk to	
the public from ice throw is minimal. The turbine will	
automatically shut down from imbalance caused by icing.	
Additionally, the access road will be secured with a	
locked gate, and warning signs will be placed within 500	
feet from the base of each tower.	
As to blade throw and tower collapse,	
the Applicant states "this problem has all but been	
eliminated in new, safer turbine models." And, that "no	
steel tower associated with the Acciona 116 or its	
predecessor has collapsed or thrown a blade."	
As to lightning strikes, each tower is	
equipped to appropriately ground a lightning strike, so	
this will have no impact on the public, according to the	
Applicant. As the turbines will be significantly bonded	
to the grounding system, stray voltage will also not be an	
issue.	
As far as hazardous materials, if oil	
and lubricants leak inside the nacelle, they will be	
contained in a 50-gallon drum and disposed of properly.	
{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}	

	[]
1	Other hazardous materials on the Project site will include
2	fluids, oils, fuel, etcetera, associated with maintenance
3	vehicles, on-site storage of portable fuel cans for
4	maintenance vehicles, oily rags and other waste associated
5	with turbine lubrication and maintenance, and oils
6	associated with the substation components for the
7	transformers.
8	Propane or heating oil may be associated
9	with operations and maintenance building, depending on
10	final design plans for heating of the structure. Finally,
11	the substation will include a backup generator that will
12	require liquid fuel. But the specific fuel type will
13	depend on the final design, but it's expected to be
14	propane.
15	In order to manage hazardous substances
16	in accordance with federal regulations, AWE will prepare
17	an Operations Spill Prevention, Control and Countermeasure
18	Plan prior to the commencement of commercial operation.
19	The plan will describe the procedures, methods, and
20	equipment that will be used at the facility to comply with
21	the U.S. Environmental Protection Agency's Oil Spill
22	Prevention, Control and Countermeasure Standards.
23	Likewise, the plan will comply with federal inspection
24	reporting, training, and recordkeeping requirements.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	
1	Since there was no controversy over
2	these, I think that we can find that there is no adverse
3	impact on public safety as a result of these. And, then,
4	Mr. Simpkins is going to cover fire and aviation safety.
5	CHAIRMAN IGNATIUS: Okay. Before we go
6	to those other issues then, Mr. Simpkins, let's talk a
7	little bit about the miscellaneous issues that Ms. Bailey
8	just ran through. Does anyone have any factual issues or
9	questions that you have in your mind as you heard that
10	recitation of those issues, to kind of get out on the
11	table?
12	(No verbal response)
13	CHAIRMAN IGNATIUS: Do we know, on the
14	hazardous materials, this may be part of the fire code and
15	fire suppression issues that Mr. Simpkins is going to talk
16	about, but do we know whether there are any municipal
17	concerns or needs, in terms of training or identification
18	of materials that are likely to be there, that have been
19	that the Applicant has made any commitments about?
20	(No verbal response)
21	CHAIRMAN IGNATIUS: I think I don't
22	remember if there was much discussion about that. I think
23	it's always important that there be a clear understanding
24	in a municipality of what it is that's on-site, so that
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	people are prepared to deal with it, if there is any	
2	reason that a responder is on-site and knows what they're	
3	confronting and how to deal with it. And, I don't recall	
4	if the Town agreement already addresses that. There may	
5	be provisions that are adequate. I mean, I think that's	
6	kind of standard.	
7	And, if it isn't already included, I	
8	think we should think about a condition that just makes	
9	some obligation on the part of the Applicant to identify	
10	those materials with the municipality. But my guess is	
11	that's already provided for somewhere.	
12	MR. IACOPINO: Do you want me to address	
13	it?	
14	CHAIRMAN IGNATIUS: Please.	
15	MR. IACOPINO: Just so that you all can	
16	look into your record, the Exhibit AWE-4, it's Appendix	
17	17A of the Application, and it contains the agreement	
18	between the Town and the Applicant. With respect to what	
19	the Chair was just discussing, Section 7 of that document	
20	is entitled "Emergency Response". And, Section 7.2	
21	requires the Town and the developer to cooperate "to	
22	determine the need for the purchase of any equipment	
23	required to provide an adequate response to an emergency	
24	at the wind farm that would not otherwise need to be	
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}	

i	[DELIBERATIONS]
1	purchased by the Town. If agreed between the Town and the
2	Owner, the Owner shall purchase any specialized equipment
3	for storage at the Project Site. The Town and Owner shall
4	review together on an annual basis the requirements for
5	emergency response at the wind farm."
6	I didn't see anything directly
7	pertaining to training, but I will look further.
8	DIR. SIMPKINS: Ms. Chairman, I was
9	going to talk just a little bit about that in the fire
10	suppression. But, I mean, I can talk about it now, if
11	you'd rather, I'm not sure?
12	CHAIRMAN IGNATIUS: Sure. Why don't you
13	go ahead.
14	DIR. SIMPKINS: Okay. Well, I'll just
15	go through the fire quickly, and then I'll kind of finish
16	up with the Town agreement, the information I found.
17	The Applicant asserts that there is only
18	a very small chance of fire occurring with the turbines,
19	as they have few flammable components. They stated in
20	their final brief that emergency services have never had
21	to respond to an incident at any of the 633 Acciona
22	turbines located in North America. They further state
23	that a safety plan will be implemented at the Project, and
24	that it will be monitored 24/7 at Acciona's Remote
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	Operation Center.
2	In looking through the testimony, there
3	were kind of two issues that came up, not necessarily
4	"issues", but two things to mention regarding this topic.
5	There is an Exhibit Committee 1, that's the letter from
б	the State Fire Marshal. And, I did mention this on
7	Tuesday regarding permits. And, that's the Fire Marshal
8	requests the Committee to condition any certificate on a
9	compliance with the following codes: "International
10	Building Code, 2009 Edition; NFPA 1, Fire Code, 2009
11	Edition; NFPA 101, Life Safety Code, 2009 Edition; and
12	NFPA 850, Recommended Practice for Fire Protection for
13	Electric Generating Plants and High Voltage Direct Current
14	Converter Stations, 2010 Edition."
15	Additionally, the Fire Marshal requests
16	two other conditions. One is, allowing a review of final
17	plans and compliance inspections. And, the last one is
18	seeking a condition that would allow him to retain
19	independent third party review.
20	The other issue under this topic was
21	there was some discussion early on during testimony, I
22	believe this was Mr. Kenworthy's, about working with the
23	local fire department. In the Applicant's brief, they
24	state they "will engage with the Town of Antrim to develop
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1 an emergency response plan...and to assure that the Town 2 has any emergency equipment necessitated by the Project 3 that would not otherwise be required." And, we just kind 4 of went through that.

5 There was questioning on Day 1 of Mr. 6 Kenworthy by Ms. Manzelli regarding the emergency plan. 7 Mr. Kenworthy indicated the plan was not developed yet, but would be after completion of the permitting process. 8 9 There was also additional testimony that all maintenance 10 staff will be trained and equipped with fire extinguishers 11 that are onsite. And, then, there was some discussion back and forth about the difficulty getting a response 12 13 back or there was a -- and I believe the person's name was 14 "Soininen", or I forget the exact employee's name, but he 15 was the one that was trying to work with the Antrim Fire 16 Chief, but apparently they were having a hard time 17 connecting. So, it was stated that the State Fire Marshal 18 offered to coordinate those efforts going forward, as far 19 as developing that plan.

So, that was going to be a recommendation, is to adopt the conditions that the Fire Marshal has put forward, but also that they work on that emergency response plan with the Town. And, in it, they do mention "equipment", but I do think it would be

1	worthwhile to put in "training", because it's certainly a
2	different type of structure than they're probably used to
3	working with. And, there's probably specific techniques
4	and things like that that they should be aware of, and
5	preplanning is always a good thing to do. So, that's it
6	for fire.
7	CHAIRMAN IGNATIUS: All right. Thank
8	you. Any other comments people had on any of this list of
9	issues?
10	DIR. SIMPKINS: I still have aviation
11	safety, if you would like me to
12	CHAIRMAN IGNATIUS: Right. Let's hold
13	off on that for a second, because it really deals with a
14	federal agency, finish up these first.
15	Are there any other concerns people have
16	on these?
17	(No verbal response)
18	CHAIRMAN IGNATIUS: Seeing none, are
19	people is there anything on that list that causes
20	anyone to find an adverse risk to public health and
21	safety?
22	(No verbal response)
23	CHAIRMAN IGNATIUS: I'm assuming not,
24	because I see nothing. All right. There's no hands
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	raised on that one. And, any requirements you see for
2	conditions, beyond what Mr. Simpkins just suggested? He
3	suggested that there be some conditions of the Fire
4	Marshal to be adopted that I've lost track already
5	help on the emergency response development, but I lost
6	track of what that was.
7	DIR. SIMPKINS: Well, the agreement
8	between the Town and the Applicant spells most of it out.
9	But, as you mentioned previously, I think it would be a
10	good idea to mention "training" specifically. They do
11	mention "equipment", but not "training", and probably
12	"preplanning" also. So, if there is an incident, everyone
13	knows what they're doing and what their role is and whose
14	responsibility is whose.
15	CHAIRMAN IGNATIUS: All right. Other
16	than adding in some training and sort of preplanning
17	requirement, you didn't see a need for our involvement in
18	the development of the emergency response agreement?
19	DIR. SIMPKINS: No. I believe, between
20	the Fire Marshal, the Town, and the Applicant, it would be
21	best if they worked together on that.
22	CHAIRMAN IGNATIUS: Okay. And, that's
23	already in place, we don't need a condition that says that
24	they're to work that out?
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	DIR. SIMPKINS: Well, it's in the
2	agreement between the Applicant and the Town. So, I would
3	assume that's in force.
4	CHAIRMAN IGNATIUS: Good. Okay. So, it
5	would really be to specify that, to the extent it's not
6	already contemplated, that there be some training and some
7	preplanning discussions about potential safety concerns
8	that could occur at the site?
9	DIR. SIMPKINS: Correct.
10	CHAIRMAN IGNATIUS: Is everyone
11	supportive of that?
12	MS. BAILEY: Yes.
13	CHAIRMAN IGNATIUS: I see nods. Anyone
14	who finds any reason not to put that sort of a condition
15	on?
16	(No indication given.)
17	CHAIRMAN IGNATIUS: Seeing none. Then,
18	let's ask Mr. Iacopino to develop a condition that would
19	say that "the Applicant is responsible for offering of
20	some training and coordinating some preplanning with local
21	officials", responders, whoever they may be, between
22	local, regional, I don't know who does what, but for
23	response to any sort of problem that could occur onsite.
24	And that, further, if there are conditions imposed by the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	Fire Marshal, that those be enforced as well as part of
2	the Certificate. Is that agreeable to everyone?
3	MS. BAILEY: So, emergency response?
4	CHAIRMAN IGNATIUS: Yes. All right.
5	Thank you. Then, the aviation safety issues.
6	DIR. SIMPKINS: Sure. And, this one was
7	also we discussed this in the two previous topics.
8	But, just briefly, the Federal Aviation Administration is
9	responsible for making a determination of "no hazard to
10	air navigation." The letter was received by the FAA on
11	November 8, 2011, that's Exhibit AWE 2, Appendix 2E,
12	indicating that the structures do not pose a substantial
13	adverse effect on navigable airspace and no hazard exists,
14	and each turbine was evaluated separately. A condition of
15	the letters was to mark the structures, all had a
16	condition of being painted white, and most had a condition
17	of having a synchronized red flashing light on top. So,
18	that was from the FAA.
19	Separately, in Exhibit AMC-5, AMC and
20	the Applicant came to an agreement to use radar-activated
21	lighting, when that technology became legal to use by FAA
22	standards, to reduce nighttime light intrusion. And,
23	Antrim Wind Energy has made a commitment to use the
24	radar-activated lights, once they become permissible.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	CHAIRMAN IGNATIUS: Anybody have
2	questions or other comments on that issue that you want to
3	bring out?
4	(No verbal response)
5	CHAIRMAN IGNATIUS: Do we have any
6	projections on when the FAA action might come in?
7	DIR. SIMPKINS: I did not see any. I
8	believe it was Dr. Kimball, from the AMC, we talked about
9	that. He, I forget his exact comment, but he kind of made
10	it seem like it probably will be a while. But there was
11	no I didn't find any specific timeline.
12	CHAIRMAN IGNATIUS: And, if the Project
13	were to become operational before that lighting system is
14	approved, what would the Applicant do for lighting?
15	DIR. SIMPKINS: They would have to use
16	the current FAA standard, which would be the synchronized
17	red flashing lights.
18	CHAIRMAN IGNATIUS: And, then, after
19	that's installed, if the FAA does approve the other
20	approach, they would then still be obligated to install
21	the newer version?
22	DIR. SIMPKINS: That's my understanding
23	of the agreement.
24	CHAIRMAN IGNATIUS: All right. And, all
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	of those terms that you described, those are already in
2	the agreement, the written agreement between the Applicant
3	and the AMC, is that right?
4	DIR. SIMPKINS: I believe so. But I
5	will I just want to go back and verify that.
6	CHAIRMAN IGNATIUS: The reason I ask is,
7	do we need any particular condition or is that already a
8	commitment in the record?
9	DIR. SIMPKINS: This is AMC-5 I'm
10	reviewing. So, if you'd like, I can read what this
11	agreement says, regarding the radar-activated lights?
12	CHAIRMAN IGNATIUS: Sure.
13	DIR. SIMPKINS: It says: "AWE hereby
14	agrees that it shall seek, as part of its Application
15	filed with the SEC, approval from the SEC of facilities
16	needed to install a radar-activated lighting control
17	system, such as the Harrier Radar System designed by
18	DeTect. Furthermore, AWE agrees that, depending on the
19	status of the issuance of the revised FAA Advisory
20	Circular detailing the requirements of the radar system,
21	it shall take the following steps: If the FAA has issued
22	the Advisory Circular 60 days or more before the
23	commencement of construction of the Project that allows
24	for the radar system to be operated, then AWE shall
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1 install and operate the radar system simultaneously with the commissioning of the Project. If the FAA has not 2 3 issued the Advisory Circular at least 60 days before commencement of construction, but issues the Advisory 4 5 Circular at any time during the commercial operation of 6 the Project, then AWE shall be required to implement and 7 operate the radar system within one year of the issuance. At its sole option, as an alternative to (b) above, AWE 8 9 may install the radar system simultaneously with the 10 remainder of the construction of the facilities in the 11 Project. In this scenario, in the event that the Advisory Circular is issued later than 60 days prior to the 12 13 commencement of construction, then AWE will commence with 14 operation of the radar system as soon as commercially 15 reasonable but no longer than one year of the issuance of 16 the Advisory Circular." 17 CHAIRMAN IGNATIUS: All right. So that, 18 I appreciate that. That means that all of the terms we were talking about are written out in the agreement. 19 And, 20 the only question for us is, do we accept the agreement 21 and make it a condition of a certificate, that that 22 agreement's terms apply?

23 DIR. SIMPKINS: And, I would just make 24 -- though, the Exhibit AMC-5 is signed by the Applicant. {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

The copy we have, there is no signature by the AMC.
So,
CHAIRMAN IGNATIUS: Although, did we
receive ultimately a signed version? I think we were
asked about that in the hearings, that the version in our
file did not, we should be certain that that was actually
received. I'm drawing a blank on whether we ever actually
got that in the record.
MR. IACOPINO: Mr. Kimball, in his
testimony, at least said he signed it. So, I'd have to
look for the document. We'll make sure we get it. On
Page 181 of Mr. Kimball's testimony, the question is or
the question is posed to him about "the agreement that you
had signed", and he acknowledges that.
CHAIRMAN IGNATIUS: So, it sounds like,
really, just as a matter of compliance, we should get a
copy of the signature page in the record, if we don't
already have it. But I certainly remember the same thing,
that it was a commitment, and it may just be a question of
the papers catching up with the commitment.
So, is the Committee prepared to accept
the agreement between AMC and the Applicant and make it a
condition of the Certificate that it be fully enforced?
Mr. Green.

	[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
1	MR. GREEN: I'm not sure if I'm reading
2	this right or not, but I just want to make sure I'm
3	understanding before we start to take a vote on this. The
4	post hearing brief from the Appalachian Mountain Club,
5	dated January 14th, 2013, the second to last paragraph
6	says "The AMC acknowledges that the RAL technology does
7	not address daytime visual or impacts of concern brought
8	forth by other parties in this proceeding. The terms of
9	the agreement between AMC and AWE in no way implies that
10	the AMC supports this Project or other issues raised by
11	other intervenors are without merit or in any way resolved
12	by this agreement. AMC believes that this agreement
13	appropriately establishes that the State of New
14	Hampshire's SEC should require best available technologies
15	to reduce serious Project impacts, like nighttime light
16	pollution, as a certification requirement, should it
17	decide to certify this or other projects in the future."
18	So, my question is, are we voting to
19	have as a condition for the certification or are we just
20	going to accept their agreement? That's my question.
21	CHAIRMAN IGNATIUS: I guess I was
22	assuming it was one in the same. By accepting the
23	agreement, it was a commitment that it be done in this
24	case. And, the only question is timing, you know,
-	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	awaiting FAA approval.
2	But, if it's not clear, my thought is
3	that, yes, it be required, that be the lighting system in
4	place, preferably only installed once, and not have to go
5	back and rebuild, but that's out of our hands. Is that
б	acceptable to everyone?
7	(Non-verbal concurrence given)
8	CHAIRMAN IGNATIUS: All right. So, we
9	make as a condition that we accept the agreement with the
10	AMC and that the terms be enforceable as part of the
11	Certificate.
12	On the Town agreement that we've talked
13	about, it affects a number of issues. Similarly, we
14	haven't formally accepted that agreement and made it a
15	term of the certificate. But is there any reason that
16	anyone would not want to do that? Dr. Boisvert.
17	MR. BOISVERT: There are issues in the
18	decommissioning that are different in the Town agreement
19	from the Application. And, I believe they need to be
20	considered before we accept the Town agreement in toto.
21	CHAIRMAN IGNATIUS: Great point. Thank
22	you. I had forgotten that. So, then, that is, I think,
23	our next issue, unless we have anything left on public
24	health and safety. I think, just as a wrap-up, we ought
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	to make sure we're all in agreement on public health and
2	safety. Mr. Dupee.
3	MR. DUPEE: Thank you, madam Chair. I
4	just wanted to mention, before we move off the topic of
5	health and safety, I want to refer the Committee back to
б	AWE 1, particularly Table 1.3, and there it talks about
7	the reduction in air pollutants we expect to have result
8	of this proposal, if it was to go forward. In talking
9	about it in the Application, the Project would be
10	"expected to displace emissions of over 59,000 tons of
11	CO2, an additional 150 tons of sulfur dioxide, nitrogen
12	oxides, particulate matter and other toxins on average
13	each year." So, while we covered that briefly in the air
14	quality section, I wanted to point out that these
15	reductions
16	(Court reporter interruption.)
17	MR. DUPEE: I'm sorry. We talked about
18	this under the general discussion on air quality, but I
19	wanted to revisit this and say that you also expect to see
20	public health benefits, in terms of reduction in asthma
21	exacerbations and heart attacks. And, it was brought up
22	by one of the intervenors that this is a small
23	contribution to the overall effect of reducing air
24	quality. But, nonetheless, it's a step in the right
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	direction, and I think the Committee should take notice of
2	that.
3	CHAIRMAN IGNATIUS: Thank you. That's a
4	really good thing to remind us that we've been dealing
5	with the negatives as we work our way through the statute,
6	and to be mindful of the positives that are present as
7	well. And, clearly, the use of wind power brings some
8	definite positives, in terms of avoided emissions and
9	health benefits, by reduction in those pollutants. So,
10	thank you.
11	Just as a clarity, make sure there's no
12	one else with any other comments, that we are in agreement
13	that the public health and safety issues that we must find
14	under the statute, that we're concluding no adverse health
15	and safety impacts from the categories of health and
16	safety we've been talking about. We did work on
17	conditions to set standards we think are appropriate, and
18	have at least one issue we need to come back to on whether
19	there's any further conditioning we want to impose. But
20	we have concluded no adverse public health and safety
21	impacts as a result of the operation of the facility.
22	All right. Then, Dr. Boisvert, we're
23	going to go to the decommissioning issues. And, I just,
24	in terms of scheduling, this may not go that long, but we
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	will need to take a break at 12:30, because of some other
2	work commitments. So, we'll just time that with our lunch
3	break, and it shouldn't throw off the afternoon, but
4	that's where we're heading right now.
5	MR. BOISVERT: Thank you. While
6	decommissioning is not explicitly required in RSA 162-H,
7	it's still a necessary component of the wind power
8	project. And, the need for it is sought by the Town, and
9	it is addressed in the Application and agreement between
10	the Applicant and the Town.
11	In the Application, Section F.6 covers
12	decommissioning. And, it states that, once there are no
13	that once that the wind farm is no longer operational,
14	it will be decommissioned. This applies to the individual
15	towers, as well as the whole farm. The Application sets a
16	timetable for notification to the Town, a recognition that
17	permits will be needed from the DOT. That's for using
18	overweight trucks to get the decommissioned pieces out.
19	And, then, discuss in some detail dismantling/removal of
20	the towers, salvage of the towers, steps to return the
21	landscape to its original contours by removal of the
22	foundations to 18 inches below grade, and burial onsite of
23	the concrete and other removal details. And, it goes in
24	slow down, right.
	[GEG 2012 01] [Dev 2 Merming Georgian ONIX] [02 07 12]

[DELIBERATIONS]

1 In the decommissioning portion of the 2 Application, they get into how they're going to cut up the 3 steel, how they're going to bury the pulverized concrete and so forth, I don't believe that that is necessary to go 4 5 through bit by bit here. 6 The important thing in the Application 7 is that the trigger to decommission the facility is inactivity of one year. And, that is on Page 94 of the 8 9 Applicant's post hearing brief. Excuse me, I'm sorry, 10 wrong citation. That is in the Application, they say "one 11 year". However, in the agreement with the Town 12 13 of Antrim, document signed March 8, 2012, it focuses on 14 the financial assurances, probably made in guarantees, 15 bondholder, letter of credit, and so forth. This is in 16 Section 14 of the Town agreement. But the agreement only 17 discusses that "foundations will be taken down to 18 18 inches below grade". The other steps mentioned in the Application are not mentioned. 19 My question will become, will there need 20 21 to be specificity of these actions assured as a condition 22 of the permit? Future owners may not feel obligated to 23 adhere to what was in the Application. Also, the 24 agreement signed has a trigger of inactivity of two years, {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	not one. And, this I think is a significant difference.
2	Section 15 of the agreement stipulates that future owners
3	and assigns would adhere to the agreement, and that is
4	quite appropriate.
5	The only parties to critique the
б	decommissioning were Edwards and Allen. They insisted on
7	assurances that the Town would not have to pay for any
8	decommissioning costs, to have the right of refusal over
9	bondholders, and that the Committee should double-check
10	the financial assurances. A lot of what they asked for
11	are nuances of what is already agreed and things that the
12	Committee is already doing.
13	That's it in a nutshell. So, the two
14	things that I see about decommissioning that we should
15	discuss is, should we assure all the various steps in the
16	decommissioning be iterated and as a condition of the
17	permit? They are not iterated in the Town agreement,
18	other than removing the concrete to 18 inches below grade.
19	I wouldn't be concerned so much, except
20	that the Application had a one-year time limit of one
21	year span of time before they would be obligated to
22	decommission, and, in the agreement, it says "two". And,
23	I do not recall any discussion in the hearing of that. I
24	discovered this as I was reading over the information
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	prior to preparing this.
2	So, I would like to put this out to the
3	Committee and hear what you have to say. I also would
4	like to request from Mr. Iacopino, what was the length of
5	time of inactivity before decommissioning on the previous
6	wind farms that came before this Committee?
7	MR. IACOPINO: I'll get that for you.
8	But you guys should continue to deliberate while I find
9	it.
10	CHAIRMAN IGNATIUS: So, while he's
11	looking for that, when you said "the agreement says two
12	years", but the Application said "one", is that years of
13	inactivity to trigger decommissioning or a year before the
14	decommissioning actually commences?
15	MR. BOISVERT: A year of inactivity.
16	And, now, I'll need to pull up the Application here. It's
17	under Section F.6, if someone can get to it quicker than
18	I.
19	MS. BAILEY: I have it, Dr. Boisvert.
20	It says: "However, if the turbines are non-operational
21	for more than a year, and they are not upgraded or
22	replaced at that time, they will be decommissioned."
23	That's Section F.6 of AWE 1.
24	MR. BOISVERT: Correct. And, then, when
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	you look at the agreement with the Town, if I can pull
2	that up quickly, it's under the Section 14.
3	Section 14.1.2: "The Owner shall, at its expense,
4	complete decommissioning of the wind farm or individual
5	wind turbines, pursuant to section above of this
6	agreement, within 24 months after the end of useful life
7	of the wind farm or individual wind turbines, as the case
8	may be." And, that's defined in Section 1.5, which is the
9	next section down.
10	CHAIRMAN IGNATIUS: That sounded like a
11	completion date that all the decommissioning work be done,
12	as opposed to the date that triggers the work to be done.
13	Maybe I got confused over which category you're talking
14	about.
15	MR. BOISVERT: Okay. I misread it then.
16	I meant okay, so, they have one year time after the
17	start of decommissioning to finance the decommissioning.
18	It was 24 hours 24, excuse me, 12 months or one year of
19	inactivity, then they have another 12 months to complete
20	the decommissioning.
21	CHAIRMAN IGNATIUS: That was in the
22	Application?
23	MR. BOISVERT: Yes. In the Application
24	I had it under Section F, in the Application, in Section
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

	[DELIBERATIONS]
1	F.6, covers decommissioning.
2	CHAIRMAN IGNATIUS: And, then, the
3	agreement has a 12 months inactivity to trigger, but 24
4	months to complete the work?
5	MR. BOISVERT: Let me reread this. I
6	may have okay. It says "to complete decommissioning".
7	I misread that initially. So, it does not state when
8	decommissioning will start, but it will say "it will be
9	completed within 24 months after the end of the useful
10	life." Okay. So, I misunderstood, and took the "24
11	months" to be, you know, the start of the decommissioning,
12	not the end of it. So, it isn't explicitly stated in the
13	Town agreement. But, if it's in the Application, then
14	that should be adequate.
15	The other aspect was, they did not go
16	into detail in the agreement the various steps to be
17	taken, in terms of how they're going to take down the
18	towers, how they're going to pulverize the concrete, how
19	deep they're going to bury the concrete, cut up the steel,
20	recycle the steel, things of that sort. They're not
21	mentioned in the agreement with the Town. And, I guess it
22	would be a question, does it need to be made a condition
23	or is the statement in the Application sufficient?
24	CHAIRMAN IGNATIUS: Ms. Bailey.
	$\int SEC 2012 - 01 \int \left[D_{2V} \right] = Morning Section ONIVI \int 02 - 07 - 13 \int 02 - 07 - 07 - 07 - 07 - 07 - 07 - 07 -$

1 MS. BAILEY: Dr. Boisvert, maybe you can 2 tell me where in the Town agreement you were reading from, 3 because I agree it's a little confusing. The first 4 paragraph in Section 14.2 of AWE Exhibit 4, Appendix 17A, 5 which is the agreement between the Town --6 MR. BOISVERT: Yes. 7 MS. BAILEY: -- and AWE, says: "The wind farm will be presumed to be at the end of useful life if 8 9 no electricity is generated from the wind farm for a 10 continuous period of 24 months, and as defined in 11 Section 1.5." 12 MR. BOISVERT: Right. 13 MS. BAILEY: So, I can see where the 14 confusion comes from. 15 MR. BOISVERT: Oh. Okay. 16 MS. BAILEY: That seems to conflict with 17 what the Application says. 18 MR. BOISVERT: Okay. Then, I was 19 directed back to the end of decommissioning. And, so, 20 okay, let me look at it again. Okay. So, okay, it does say "for continuous generating" of 14.2.1, I was reading 21 14.1.2 before, my apologies. 22 23 MS. BAILEY: I think I remember 24 something in the transcript about these two paragraphs. {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	Maybe we should look there, too. But, go ahead. Sorry.
2	MR. BOISVERT: All right. So, in
3	14.2.1, it says the interpretation that I have is that
4	it will be a continuous period of inactivity for 24
5	months, which is different than in the Application. It
6	also says, again, 14.1.2, it will complete the
7	decommissioning "within 24 months after the end of the
8	useful life". So, it would look like they have to do it
9	in one day. The question becomes, is this a clerical
10	error or is this the intent to change it from one year to
11	two years of inactivity before they will be obligated to
12	decommission the property.
13	CHAIRMAN IGNATIUS: Yes. I'm not sure I
14	followed your how to read the "24 months after the end
15	of useful life". I took it to mean effectively 48 months;
16	two years of continuous no energy production, but then
17	triggers another 24-month period of commencing and
18	completing decommissioning.
19	MR. BOISVERT: Okay.
20	CHAIRMAN IGNATIUS: Mr. Craig.
21	MS. BAILEY: Mr. Green.
22	CHAIRMAN IGNATIUS: Mr. Green.
23	MR. GREEN: That's fine. We can be on
24	first names. Under the Applicant's post hearing brief,
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	January 14, 2013, Page 93 to 94, it says "AWE must
2	complete decommissioning within 24 months after the end of
3	the useful life of the Project, which is defined in
4	Section 1.5 of the Town agreement as a time when no
5	electricity has been generated for a continuous 24
6	months." So, it sounds to me like there has to be no
7	electricity generated for two years, and then you have 24
8	months to take it down.
9	MS. BAILEY: So, it sounds to me like
10	that changed between the time they filed the Application
11	and the time they reached the agreement with the Town.
12	CHAIRMAN IGNATIUS: And, the Town
13	agreement, it was executed, Mr. Iacopino pulled up, looks
14	like it was executed on March 8th, 2012, later than the
15	Application date, obviously. So, I think that's fair that
16	that later document would govern, and it may have evolved
17	in a numerous of instances. The one, I guess it was a
18	draft that first came in with the Application, but it was
19	finalized with slightly different terms.
20	MR. IACOPINO: Thank you, madam Chair.
21	I just want to address one thing from a legal standpoint,
22	because this may come up with other issues as you continue
23	to deliberate. Generally, the Committee has certificated,
24	when you've issued a certificate, you've certificated a
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}
I	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-

1	project based upon the specifications that are in the
2	Application. Because, obviously, you know, our orders
3	would be even more voluminous than they are if we had to
4	put every specification into the order.
5	So, I don't know if that gives you any
6	comfort, Dr. Boisvert. But, to the extent that you
7	approve a condition that is different than in the
8	Application, obviously, the specific condition approved
9	will supersede what's in the Application.
10	MS. BAILEY: Can you tell me,
11	Mr. Iacopino, what day, what transcript Edwards and Allen
12	testified?
13	MR. IACOPINO: If you give me one
14	second, I have my little cheat sheet.
15	MS. BAILEY: Because something in my
16	brain remembers some talk about 14.1.2 versus 14.2.1, and
17	I just want to go back and see what they said about that.
18	CHAIRMAN IGNATIUS: Ms. Bailey, you're a
19	scary person sometimes.
20	MR. IACOPINO: That's Day 9, in the
21	afternoon. Page 132 is where the testimony begins.
22	CHAIRMAN IGNATIUS: Mr. Simpkins.
23	DIR. SIMPKINS: Yes. I had a question,
24	based on what Mr. Iacopino just said about, you know,
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	adopting the agreements and things. In the Town of Antrim
2	agreement, they have some other things in there that are
3	directly related to what we are talking about. Like, they
4	have their own decibel noise levels, daytime and
5	nighttime, in Section 11. And, they also have another
6	section, where people can sign a waiver, so the noise
7	limits don't pertain to them. So, I'm just I'm not
8	exactly sure how we handle that, because we're setting
9	conditions, I would assume our conditions would supersede
10	this agreement. But I don't know if we have to go through
11	and or, is it just a blanket statement that says, you
12	know, "this agreement is in force, except those provisions
13	that"
14	MR. IACOPINO: Generally, when we get
15	down to the actual drafting of the decision and of the
16	certificate, it will make there will be language, such
17	as "notwithstanding any other agreements", and things like
18	that, "the following conditions shall apply."
19	DIR. SIMPKINS: Okay.
20	MR. IACOPINO: But the way that I take
21	this and the way the order will be written is that, to the
22	extent you specifically condition a certificate, that
23	specific condition is going to supersede anything that's
24	in the Application or in an agreement with another party.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	But, to the extent that the order or certificate itself is
2	specifically silent on something, the specs contained in
3	the Application are what's going to be expected of the
4	Applicant. So that, for instance, let's say they said
5	that the you know, there will be "the roadway will
6	be 15 inches thick" in the Application. You know, that's
7	what they would be expected to construct, if there was not
8	a condition that required a roadway of 24 inches thick,
9	let's say.

10 So, in the CHAIRMAN IGNATIUS: 11 decommissioning details, it's my understanding, my expectation that we would be accepting the more detailed 12 13 description that the Applicant has laid out, even though 14 they're not all spelled out in the Town agreement. And, 15 that it would be accepting the decommissioning plan, 16 really, that the Applicant has put forward. And, to the 17 extent there's any conflict, such as those dates between 18 the Application and the final agreement with the Town, 19 those dates would apply in the agreement. But that we 20 don't want to suggest that the agreement somehow beats out 21 the Application on all issues of decommissioning, because 22 then we'll lose some of that detail. I'm sure there's a 23 way to finesse that in the language, Mr. Iacopino. 24 There usually is. MR. IACOPINO: Yes.

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	CHAIRMAN IGNATIUS: So, is everyone in
2	agreement that the decommissioning proposal that's laid
3	out between the combination of the Application and then
4	the dates further refined in the Town agreement are
5	acceptable?
6	(No verbal response)
7	CHAIRMAN IGNATIUS: Any reason not to
8	accept the decommissioning proposal?
9	(No verbal response)
10	CHAIRMAN IGNATIUS: I see nothing.
11	Then, we will accept that.
12	MS. BAILEY: Wasn't there an issue in
13	the Edwards/Allen testimony about I think the concern
14	was, if somebody else ended up with the Project or the
15	Project went bankrupt, that there might not be enough
16	money for decommissioning?
17	MR. BOISVERT: Yes. And, I don't have
18	the transcript in front of me, but, if my memory serves,
19	and it's not too good today, the issue was, if there was a
20	bondholder or someone, if they defaulted on their
21	obligation, they would get first access to the monies from
22	salvaging the towers. And, that that money, which is
23	reserved for the Town under that circumstance, would not
24	be available. And, that was their concern. And, there
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	was considerable discussion back and forth. And, it
2	became it became an issue of "what would happen, in
3	effect, in a bankruptcy situation?" And, my understanding
4	was that the idea that the bondholder would get the
5	salvage rights probably wasn't going to happen. But I do
6	not have clarity on that. But that was the gist of it in
7	their presentation.

CHAIRMAN IGNATIUS: This is another one 8 9 of those things where there are certain provisions in the 10 agreement that require bonding or funding assurances that 11 I guess we can't assume it will cover every possible 12 eventuality, but there is efforts made to try to kind of 13 anticipate ways to assure adequate funding. And, I'm 14 reluctant to try to impose any new terms or, you know, 15 quess at what might or might not be sufficient, because we 16 haven't developed that. I don't fully -- I haven't looked 17 at the kinds of documents that are called for to have any 18 sense that I could better guess at whether they're adequate or not, and I don't think it's been developed in 19 20 the record. So, I'm very reluctant to start imposing 21 anything new. There are sort of standard provisions for 22 funding assurance in the agreement that I guess, in my 23 mind, is sufficient in this case.

Are there other comments? Ms. Bailey. {SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

24

1	MS. BAILEY: I think I agree. I am
2	reviewing the transcript from Day 2, I think it's in the
3	morning, on Page well, it was Mr. Allen's [Edwards'?]
4	cross-examination of Mr. Kenworthy. And, in response to a
5	question, Mr. Kenworthy answered: "Well, I think the
6	decommissioning funding assurance requirement requires
7	that Antrim Wind develop an estimate prior to
8	construction, and then updates it every three years
9	thereafter, which takes into account the estimated cost of
10	decommissioning, net of salvage value. And, so, there is
11	a current "within three years" maximum estimate at any
12	point during the operating life of the facility, up until
13	such time as that facility is, in fact, decommissioned."
14	That's on Page 125. So, I agree with you.
15	CHAIRMAN IGNATIUS: Anything further on
16	this issue or any issues related to decommissioning?
17	MR. BOISVERT: So, it would stand that
18	the trigger for the need to do the decommissioning would
19	be 12 months, not 24 months? The 12 months as stated in
20	the Application.
21	CHAIRMAN IGNATIUS: No. I had meant to
22	distinguish that it would be the details in the
23	Application, unless further amended by the agreement with
24	the Town. So that, I don't want to just take one or the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	other, because neither of them are complete. You get some
2	of the detail in the Application, you get some of the
3	detail in the agreement. So, it's really both things. It
4	would be the Application's terms as to the extent any of
5	them are amended by the agreement itself. So, you would
6	have the 24 months to trigger decommissioning and the 24
7	months beyond that to complete decommissioning, as spelled
8	out in the agreement, and all of the funding assurance
9	terms that are in the agreement, but some of the
10	engineering details about the decommissioning itself would
11	be found in the Application. Is that everyone's
12	understanding? That's acceptable?
13	MR. BOISVERT: So, it would then be the
14	24 months of inactivity?
15	CHAIRMAN IGNATIUS: Yes.
16	MR. BOISVERT: And, what was the time
17	period for the other wind farms, for Groton Wind and
18	Lempster?
19	MR. IACOPINO: In Groton Wind, they
20	approved the Groton Wind agreement, which defines "end of
21	useful life" as a "continuous period of 24 months for
22	reasons" I'm sorry. "No electricity is generated for a
23	continuous period of 24 months for reasons other than the
24	wind regime, maintenance, or some technical failure or
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	repair, or for wind farm repowering or facility upgrades
2	or equipment replacements." I believe that is very
3	similar to the definition of "end of useful life" in
4	Exhibit 17A, and much of the language in this agreement is
5	similar to the one in Groton, although I can't say it's
6	word-for-word. But "end of useful life" in this
7	agreement, in this docket, Exhibit 17A, at the point in
8	time in which "the wind farm, or an individual wind
9	turbine, as the case may be, has not generated electricity
10	for a continuous period of 24 months for reasons other
11	than the wind regime, maintenance or repair, facility
12	upgrade or repowering."
13	By the way, when I've I said "wind
14	regime" twice, and sort of mushed it into maintenance.
15	It's "wind regime", I think they mean that "there's no
16	wind."
17	MR. BOISVERT: Right.
18	MR. IACOPINO: Okay. So, the
19	definitions are slightly different, but the continuous
20	period is the same in both, 24 months.
21	MS. BAILEY: So, does that mean, if
22	there's no wind for two years, they don't have to
23	decommission it?
24	MR. IACOPINO: Yes. Yes, because it's
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	an exception to the 24 months. If we don't have any wind
2	for
3	MS. BAILEY: I think we should go with
4	what the Town has agreed to. I think, you know, if the
5	Town can if the Town finds two years of inoperation
6	acceptable for decommissioning, why would we change that?
7	CHAIRMAN IGNATIUS: I agree. It looks
8	like everyone's nodding. So, then, I think we're in
9	agreement on the decommissioning issues. Thank you very
10	much, Dr. Boisvert.
11	There's another issue that I think is
12	something we can do in the 20-minute period before we have
13	to take a break. That regards issues of the ISO-New
14	England studies that were finalized in late January or,
15	filed in mid January and filed with us. This is something
16	that you didn't hear testimony about, so let me recount
17	for you what took place. We saw pleadings come in from
18	Industrial Wind Action Group, and a response from the
19	Applicant on this. But there was no transcripts on this
20	specific disagreement.
21	During the case, there was an exhibit
22	reserved that was "AWE 10", and that was reserved for the
23	ISO System Impact Study, that had been developed in draft
24	and not yet been finalized. And, there was an agreement
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

111

1	by the Applicant to submit it to us as soon as it was
2	finalized. It took until the middle of January, January
3	15th, for the Applicant to receive the final documents,
4	there are actually two studies that were submitted
5	together. One known as the "Steady State System Impact
6	Study", and that was marked as "AWE 10A". And, the other
7	was called the "Stability Study Report", and that was
8	marked as "10B".
9	Part of the delay in getting it was time
10	spent by the ISO in redacting what's known as "critical
11	energy infrastructure". There are many things that we are
12	not allowed by law, at the Commission or at the ISO or any
13	of the utilities, to put in writing or diagrams that
14	depict certain infrastructure. And, as you can imagine,
15	over the last ten years, that's gotten to be a stricter
16	and stricter requirement. So that it's now a fairly
17	painstaking process to go through, documents that people
18	used to just go posting and printing on walls and things
19	are now far more protected.
20	So, according to the Applicant's
21	pleading, the materials were finally fully redacted, and
22	agreement on what could and could not be released
23	publicly, and were delivered to the Applicant on
24	January 15th. The Applicant then delivered them to the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	Site Evaluation Committee on January 16th. The Industrial
2	Wind Action Group received them, as did all other parties,
3	and was concerned that they were very late in the game,
4	and that so, certainly, a concern that it hadn't been
5	an opportunity for people to do anything with during the
6	hearing. And, then, on a substantive matter, took issue
7	with the findings of the reports, and said that it is
8	likely to cause some serious constraint on the
9	transmission system, if the wind facilities become
10	operational, and will limit the ability of putting power
11	on the system and, therefore, limit the benefits to be
12	obtained from a public health standpoint and limit the
13	economic benefits to the developer, raising questions of
14	the financial soundness of the Project overall.
15	The request was for a opportunity for
16	the Company to respond, explaining these limitations and
17	explain how they may impact the benefits and claimed
18	circumstances of the Project, if these transmission
19	constraints are, in fact, at issue. The Applicant
20	responded to that, asking that it be clear that they
21	weren't late-filed, in the sense of sitting on anything or
22	later than any commitment that had been required of them,
23	they just were late in the process because of the way they
24	came in from the ISO. And that, when received, the
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	Applicant moved very quickly to get them into the record.
2	The Applicant also asked that the filing
3	from Industrial Wind Action be stricken, and that it not
4	have to submit some memorandum explaining what the reports
5	mean. But that, to the extent that didn't happen, it did
6	go through to explain what it was, how it interpreted the
7	reports from the ISO.
8	And, in my role, as Presiding Officer,
9	with the authority to deal with procedural matters, it's
10	my ruling that there is no intentional delay. These
11	aren't late-filed in any sense that causes any unfairness
12	to any of the parties. I am not willing to strike the
13	filing by Industrial Wind Action, but I'm also not
14	requiring any additional memorandum to be submitted by the
15	Applicant. I think that the responsive information that
16	was contained in the Applicant's February 1st memo to us
17	is sufficient.
18	So, let me move now to the substance of
19	it. Which is a concern that there is a portion of the
20	system that will be involved when the wind facility goes
21	on line that is already experiencing some some thermal

20 system that will be involved when the wind facility goes 21 on line that is already experiencing some -- some thermal 22 limits, and adding additional electricity to it could put 23 it, at certain times of the year, into a constrained 24 situation that would require dialing back power a bit to

1	allow for it. There is a fix for that that's already in
2	place, already under design and agreed to to be done,
3	that's independent of this proposal. It's been talked
4	about prior to this Project. And, the people to be doing
5	the work have nothing to do with Antrim Wind Energy. They
6	are committed to making those changes. And, so, the
7	problem will be resolved, the only question is timing. It
8	is due to be operational, the fix that has already been
9	called for independent of this Project, is due to be
10	operational in 2016. And, the or "energized", I guess
11	is a better way to say it. And, the projected operational
12	date for Antrim Wind Energy is in 2014. So, there is a
13	period of time, later in 2014, into 2015 and '16, where
14	there could be some period of time where full power from
15	the wind facility could not be put on the line, and there
16	would be a need to back it off a bit.
17	According to the Applicant's reading of
18	the reports from the ISO, the periods of time are not that
19	numerous. They are when you're in the shoulder months,
20	you know, not through the winter and not through the
21	summer, but the shoulder months on either side of those.
22	And, when other constraints are also in place for other

23 conditions that cause problems are in place. And, a whole
24 handful of them that all have to be occurring

simultaneously in order to trigger this need for curtailing some of the power onto the system from the wind facility. And, that's a risk that the Applicant is willing to undertake, that there might be some period of time where all of those circumstances are in place at once that would require them to generate a little bit less than they would have otherwise.

The ISO is accepting of that. 8 There is 9 a provision for limited interconnection in certain 10 situations like that, while other things are being worked 11 out. And, so, it's not that it prohibits, there's nothing improper about doing that, there's nothing unusual about 12 13 it. It may mean a slight reduction in the economic value of operations, if all of those circumstances hit at one 14 15 particular time. And that, in turn, would be a slight 16 reduction in the benefits of avoided emissions during 17 those periods of somewhat curtailed operation. But it 18 doesn't undo it, it doesn't mean the Project can't move 19 forward for another two years. It's really a far less 20 significant curtailment than I think the Industrial Wind 21 Action Group believed it was in reading the materials. 22 So, I don't know if there's anything that we need to vote on. I mean, I think it's really just 23 24 further refinement of the evidence, now that that

{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

116

[DELIBERATIONS] 1 additional document 10, really, now 10A and 10B have been received into the record. 2 3 So, if there are questions about any of that, I'm happy to try to answer them? Ms. Bailey. 4 5 MS. BAILEY: Was there an issue about what happens if the other project for some reason doesn't 6 7 get built? I think that's a 8 CHAIRMAN IGNATIUS: 9 potential, if the other project were never built, then you 10 wouldn't have this short time period where all of these 11 circumstances could be in place. I don't think it changes the ability of the ISO to authorize interconnection. 12 But it puts the risk of a longer term potential for constraint 13 14 into the picture. 15 It is -- the Project, itself, continues 16 to be debated and voted on at the regional level for all 17 of these sorts of upgrades. They have to be planned out 18 and done on a -- with regional blessing. And, it's known 19 as the "Pittsfield/Greenfield area upgrade", and it was 20 just most recently discussed at the November 13, 2012 meeting of the ISO Reliability Committee. It was approved 21 22 at that date, I'm reading from the minutes of that meeting. A motion to approve the project was moved and 23 24 seconded. A vote was taken by show of hands, with none

1	[DELIBERATIONS]
1	opposed and no abstentions; the motion passes. So, it is
2	continuing to work its way through the process there. You
3	know, the actual construction phase is yet to come.
4	But there's a part of the way all
5	these entities work together is they commit to system
6	upgrades. And, it's not really in their hands to say, you
7	know, "we've decided to put it off" or "our business, you
8	know, chose to put our money in something different this
9	year the way a private business normally would be able to
10	do. This is so highly integrated and regulated that, once
11	it's approved, it's got to keep moving forward, often
12	because other people are relying on changes from things
13	that they have yet to do. So, it's, to me, very unlikely
14	that the whole thing would come to a stall.
15	MS. BAILEY: And, the only way that it
16	could is if the ISO approved it.
17	CHAIRMAN IGNATIUS: That's right. There
18	would have to be agreement to stop the whole progress on
19	that upgrade.
20	MS. BAILEY: Okay. So, then, did
21	Industrial Wind Action argue that we should impose a
22	condition on the Applicant to pay for the upgrade, if
23	Greenfield/Pittsfield doesn't happen?
24	CHAIRMAN IGNATIUS: No.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	[DELIBERATIONS]
1	MS. BAILEY: Okay.
2	CHAIRMAN IGNATIUS: No, I think the
3	point of the filing, and there was no response to the
4	Company's filing, the point of it was to say "this is a
5	questionable project, and it's become more questionable."
6	I mean, I think she was taking issue, as she did during
7	the hearings themselves, that the benefits were
8	overstated, and this caused them another reason for the
9	benefits to be overstated. And, in her view, the
10	financial picture is not strong, and this causes it to be
11	less strong.
12	MS. BAILEY: Okay.
13	CHAIRMAN IGNATIUS: We are going to get
14	back to financials, I guess. We didn't finalize whether
15	we were putting any kind of conditions on financials, so
16	we can talk about it again in that circumstance. It's my
17	read on all of this that there's no further requirement of
18	it doesn't appreciably change the financial picture.
19	It's a complication and it's a detail. But, as I read it,
20	it's not a significant one. One second.
21	(Chairman Ignatius conferring with Mr.
22	Iacopino.)
23	CHAIRMAN IGNATIUS: I was just checking
24	with counsel on whether we needed to vote on anything.
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

1	And, I think we're in agreement that there's no need to
2	accept the exhibit, the exhibits are what they are, and
3	they have now come into the record. What we routinely do
4	on issues related to interconnection is to require, as a
5	condition of the certificate, that the Applicant abide by
6	all of the terms of ISO interconnections. And, to the
7	extent there are any further amendments to interconnection
8	studies or any final interconnection agreement issued by
9	the ISO, that it be submitted and made part of the record.
10	And, so, if those conditions are
11	acceptable to people, they're really standard for this
12	kind of a project. Is that acceptable, that we include
13	that sort of standard provision about working with the ISO
14	and keeping us the files up-to-date on any further
15	refinements?
16	(Non-verbal concurrence given.)
17	CHAIRMAN IGNATIUS: All right. Thank
18	you.
19	MS. BAILEY: And, Chairman Ignatius,
20	does that include does that condition include the
21	assumed requirement that the Applicant will curtail the
22	operations to the extent necessary? Does the ISO control
23	that?
24	CHAIRMAN IGNATIUS: Yes.
	$\{SEC 2012-01\}$ [Day 3 - Morning Session ONLV] $\{02-07-13\}$

	[DELIBERATIONS]
1	MS. BAILEY: Okay.
2	CHAIRMAN IGNATIUS: So, I don't think we
3	need to say anything further. It's understood that the
4	ISO calls the shots on all of the dispatch decisions.
5	MS. BAILEY: Thank you.
6	CHAIRMAN IGNATIUS: All right. Then,
7	we're going to take a break, it's almost 12:30, and we
8	need to break for lunch right now. We will resume, if we
9	can do it by 1:30, that would be great. I know that at
10	least one person has got to go back to the office to do
11	something that's got to be signed off on. And, so, I home
12	we can get back by 1:30, if not, it will be close to it.
13	What we'll do at that time is go back to
14	the question of aesthetic aesthetics in the Project.
15	As you know, the first day we determined that there was an
16	adverse impact on aesthetics. And, what we did not
17	discuss is whether that's an adverse effect that can be
18	mitigated. Are there any conditions that would make that
19	aesthetic impact one that is no longer an adverse impact,
20	is something that could be mitigated and still allow for a
21	certificate to be granted? If there is, then we ought to
22	think about what those conditions would be. And, so, I
23	ask you during the break to be thinking about that. If
24	there are things you think cannot be mitigated, because
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}

121

1	they're just too intrinsic to what the proposal is, then
2	think about that. And, that's what we'll take up when we
3	resume. Thank you. So, we're adjourned until 1:30.
4	(Whereupon the lunch recess was taken
5	and this Deliberations Day 3 Morning
6	Session ONLY ended at 12:30 p.m. The
7	deliberations to resume in a transcript
8	to be filed under separate cover so
9	designated as "Deliberations Day 3
10	Afternoon Session ONLY".)
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
	{SEC 2012-01} [Day 3 - Morning Session ONLY] {02-07-13}