1 STATE OF NEW HAMPSHIRE 2 SITE EVALUATION COMMITTEE 3 4 April 7, 2011 - 1:30 p.m. Public Utilities Commission DAY 1 5 21 South Fruit Street DELIBERATIONS Suite 10 AFTERNOON SESSION ONLY Concord, New Hampshire 6 7 SEC DOCKET NO. 2010-01 8 RE: Application of Groton Wind, LLC, for a Certificate of Site and 9 Facility for a 48 Megawatt Wind Energy Facility in Groton, 10 Grafton County, New Hampshire. 11 (DELIBERATIONS OF SUBCOMMITTEE) 12 13 **PRESENT:** SITE EVALUATION SUBCOMMITTEE: Chairman Thomas B. Getz 14 N.H. Public Utilities Comm. (Presiding) 15 Robert Scott, Director Air Resources Division - DES Brook Dupee, Bureau Chief Dept. of Health & Human Serv. 16 Richard Boisvert N.H. Div. of Historical Res. Inland Fisheries - N.H. F&G 17 Stephen Perry, Chief Charles Hood, Admin. Dept of Transportation Donald Kent, Admin. Dept. of Resources & Econ. Dev. 18 Eric Steltzer Office of Energy & Planning Public Utilities Commission 19 Michael Harrington 20 21 Counsel for the Committee: Michael Iacopino, Esq. 22 23 COURT REPORTER: Susan J. Robidas, LCR NO. 44 24

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1 PROCEEDINGS (resumed) 2 CHAIRMAN GETZ: Okay. Good afternoon. 3 We're back on the record for deliberations in Site 4 Evaluation Committee Docket, it is 2010-01. And let 5 me say one thing before we turn to Mr. Scott and the 6 7 discussion of the issues regarding air and water 8 quality, and that concerns a final order in this 9 case. The procedure is that, after we 10 deliberate orally, then counsel will draft an order 11 memorializing the decisions and the reasoning behind 12 the decision, and they will be made available to us 13 for our review and ultimate signature. And it's the 14 order that then contains the decision and has the 15 binding effect in this case. And currently, the 16 deadline for issuing an order is April 26th. So I 17 just wanted to make that clear. 18 19 And with that, Mr. Scott. 20 MR. SCOTT: Okay. Good afternoon, 21 everybody. So again, I'll be discussing air and water quality, starting with, again, which I know you 22 all know this, 162-H:1 under the Purpose statement. 23 Again, that talks about a balance between environment 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 and the need for energy facilities that -- "balance" 2 to me, again, doesn't mean there's zero impact. It means there's a balance to be made with that. And, 3 again, more specifically, we need to make a ruling on 4 is there an unreasonable adverse effect on, in this 5 case, air and water quality. 6 7 So, the first thing I'd like to do is 8 draw your attention to the October 8th, 2010 issuance from the Department of Environmental Services of what 9 they title is "Final Decision and Conditions." What 10 this includes is a alteration of terrain decision or 11 permit, as well as a Wetlands Bureau final decision, 12 also with conditions. I'll come back to this. 13 But this basically is fairly broad and encompassing. 14 Ιt includes things ranging from obligations on how to 15 handle fuels within the project as construction is 16 17 going, to mitigating following best management practices for blasting, to again mitigating, to the 18 19 extent possible, wetlands and stream impacts. Of interest, among other things, is it also requires the 20 restoration of impacts, to the extent there can be 21 for the project. And there are mitigation 22 conditions, including the requirement for a one-time 23 payment of 15 -- excuse me -- \$150,000 to the 24

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1	Department of Environmental Services Aquatic Resource
2	Mitigation Fund, or the ARM fund. There is also a
3	requirement for that nine existing stream
4	crossings along Groton Hollow Road be upgraded.
5	Similarly, the conditions of this approval would
6	require that the project donate to the Society for
7	the Protection of New Hampshire Forests the property
8	survey data and mapping, title research and
9	environmental baseline data to support the Society's
10	efforts in preserving over 6500 acres of undeveloped
11	land in the Green Acre Woodlands project area.
12	So I'll come back to that. But I
13	think, Mr. Chair, we'll need to vote to incorporate
14	these permits into the certificate itself, I believe.
15	But I think it may make more sense to talk through
16	the positions of the Applicant and the intervenors
17	before we do that.
18	CHAIRMAN GETZ: Yes. And I think
19	I'm trying to recall exactly how we treated the
20	permits in the past. They've been appended to the
21	decisions and made conditions of it. So I think if
22	you want to discuss the other issues generally, then
23	we can include that in our final consideration of the
24	issues deliberations of these issues, a motion on
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1 what to include or how to include it in the order. 2 MR. SCOTT: Okay. So, again, my task is to talk about air and water quality impacts as 3 outlined in the statute. I'll start with air 4 impacts. 5 The Applicant cites there are no air 6 7 quality impacts directly. They do -- and there's 8 some disagreement from the intervenors on greenhouse gas benefit and how that's quantified and how much 9 benefit there may be for greenhouse gas emissions 10 reductions. But I would -- my observation is there's 11 no -- nobody's made a case that there is an air 12 quality impact from the project itself. So I guess I 13 can parse this out, Mr. Chair. I guess that would be 14 the first thing. But I don't think that's contested, 15 other than, again, some -- there are -- between the 16 17 Applicant and the intervenors, there are -- there is some language from the intervenors, again, 18 19 disagreeing over the extent of the benefit, but not 20 to the fact that there's air quality -- adverse air 21 quality impact. 22 So I guess maybe that could be my first motion. Or do you want to handle them both 23 24 together?

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1 CHAIRMAN GETZ: I think we can 2 segregate air from water. That makes sense. MR. SCOTT: Okay. So with that, I 3 would move that we vote that there is no unreasonable 4 adverse effect on air quality for this project. 5 CHAIRMAN GETZ: Hear a second? 6 7 MR. STELTZER: So moved. CHAIRMAN GETZ: Mr. Steltzer second. 8 Any discussion? 9 (No verbal response) 10 CHAIRMAN GETZ: Okay. 11 Hearing no discussion with respect to the issue of whether 12 there's an unreasonable adverse effect --13 MR. HARRINGTON: Maybe one point, Mr. 14 Chairman. I just want to make note of the issue of 15 some of the things that Mr. Scott just spoke of about 16 the benefits of the project and so forth, which 17 really have nothing to do with adverse effects on air 18 quality. It's something I was referring to earlier 19 20 that we would be speaking to again earlier. But it 21 doesn't have any impact on the adverse effect on air 22 quality. I agree with his motion. 23 CHAIRMAN GETZ: Anything else? 24 (No verbal response) {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

CHAIRMAN GETZ: Okay. Then all those 1 in favor of Mr. Scott's motion with respect to air 2 quality, signify by raising your hand. 3 (Multiple members raise hands.) 4 CHAIRMAN GETZ: I'll note that the 5 vote is unanimous. 6 7 MR. SCOTT: So I'll move on to water quality. Again, the Applicant has put forward no 8 unreasonable effect on water quality, citing, again, 9 the permit, the DES permits. And again, they cite 10 the minimized water quality impacts, meaning the 11 12 project won't impact more than -- a little bit more than 1.6 acres -- again, the mitigation plan for the 13 \$150,000 to the Aquatic Resource Mitigation fund, the 14 upgrade to the nine stream crossings. And again, 15 they assert that both the wetlands and the alteration 16 17 of terrain permits and the 401 water quality certificate will all cover adequately the 18 19 requirements for water quality. 20 Also, in the March testimony, I think 21 Mr. Cherian -- I know Mr. Cherian has also brought up again that there's a spill control plan put in place 22 that will address some of the concerns that the 23 intervenors have asked about, which I will cover in a 24 $\{\text{SEC 2010-01}\}$ [DAY 1 - AFTERNOON SESSION ONLY] $\{04-07-11\}$

So, again, that's -- summarizing, that's the 1 moment. 2 position of the Applicant. Looking at the intervenor group, they 3 have taken issue with, again, as I mentioned earlier 4 about the air-pollution issues, about the greenhouse 5 But similarly, I think on the water quality 6 qas. front, again condensing and summarizing, they've 7 raised issues about well water contamination due to 8 blasting; similarly, muck pile management with 9 concerns regarding nitrate and other contamination of 10 the groundwater, and the fact there may be some 11 12 impact to local aquifers. So those are concerns laid out by the intervenors. 13 Additionally, I think Ms. Lewis 14 expressed concern in her prefiled testimony, among 15 other places, of oil contamination, for instance, 16 17 transformer oil, et cetera. And again, I note that the DES permits have a requirement, as there are 18 19 federal requirements for spill containment plans. And again, that was noted in Mr. Cherian's March 20 21 testimony. Still regarding the intervenors, the 22 Groton Hollow Road residents have requested a change 23 24 of conditions from what the Department of

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1 Environmental Services has in their permits. Currently, DES has conditions requiring that, within 2 2,000 feet of blasting, that water wells will be 3 The residents have asked for 3,000 feet. tested. So 4 they've asked for a change of that condition. 5 The Applicant has responded that that's not acceptable to 6 7 them. 8 My understanding, and I guess that 9 should be what we -- one thing we vote on soon here, would be that the 2,000 feet is a standard practice, 10 my understanding is, from the Department of 11 Environmental Services. My understanding also is 12 that DES does have authority to go beyond 2,000 feet, 13 should there be a demonstrated need. So I guess I 14 would -- again, we should talk about this more for a 15 vote. But that is the first -- frankly, that's the 16 17 only condition that I'm aware of that hasn't been addressed and has been asked to go beyond that. And, 18 19 again, typically, the permit, what's been agreed to, 20 includes a lot of best management practices. But 21 this would be the deviation that I've culled out that 22 the intervenors have asked for. I'm sorry. Could you 23 CHAIRMAN GETZ: 24 just go through that briefly?

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1 MR. SCOTT: Sure. So let me see if I 2 can find the wetlands permit requirement. So, basically, the issue has to do 3 with blasting. And the concern of blasting is for 4 nitrate infiltration, if you will, in the 5 groundwater -- in this case, drinking wells. 6 So the 7 current -- I got to find it now. The current DES 8 requirement is for all wells within 2,000 feet to get basically pre-tested, so you can basically get a 9 background level. The nitrates from blasting aren't 10 the only source of nitrates. You can get it from 11 fertilizers and other things. 12 So the current requirement would be 13 2,000 feet to do pre-testing, in case there's an 14 issue that comes out. My understanding is the 15 intervenors have asked for that to be changed to 16 17 3,000 feet, to make that a requirement. And let me see if I can find the -- direct you to the permit 18 conditions. 19 20 CHAIRMAN GETZ: I think that's 21 sufficient for what I was trying to understand. 22 MR. SCOTT: So I guess maybe I'll make the motion that, understanding the Applicant's 23 concern, but with my understanding that the 2,000 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	feet is the standard with what the Department of
2	Environmental Services does in these situations, and
3	with the understanding that, should an issue come up
4	at a later date, the Department of Environmental
5	Services does exercise its authority to go beyond
6	2,000 feet if it comes up at that time, I don't see a
7	need. So I would move that that condition not be
8	included in the that basically the 2,000 feet
9	remain the condition that we accept.
10	CHAIRMAN GETZ: Well, I think in terms
11	of mechanics, I don't know that it's necessary to
12	make the motion. I think in terms of discussion, I
13	think what you're saying is that this certificate, as
14	is, is sufficient and that you don't see any need for
15	an additional or expanded condition. So I think
16	whenever you get to making a motion, we can make
17	that
18	MR. SCOTT: Okay.
19	CHAIRMAN GETZ: if you don't think
20	that's necessary
21	MR. SCOTT: No, I agree with you.
22	CHAIRMAN GETZ: then make the
23	motion based on the permit as is.
24	MR. HARRINGTON: Mr. Chairman, can I
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1 just ask a question? Mr. Scott, as far as this, can you 2 explain a little more? I understand the 2,000 versus 3 3,000 feet, and there would be a pre-blasting survey 4 done of these wells to establish a baseline. 5 And then for how long after the blasting do they continue 6 7 to monitor the wells? If I could direct -- I 8 MR. SCOTT: found the cite. So it's probably good that we look 9 at that. So, again, I'm talking about the 10 October 8th, 2010 DES letter. It's on Page 3, in 11 Section 21. So I'll read it for the record. 12 "The Applicant shall identify drinking 13 water wells located within 20" -- excuse me -- "2,000 14 feet of the proposed blasting activities." 15 That's the first sentence. The next sentence: "Develop and 16 17 implement a groundwater quality sampling plan to monitor for nitrate, and nitrate either in drinking 18 water, supply wells, or in other wells that are 19 20 representative of the drinking water and supply wells 21 in the area. The program must be approved by the DES 22 Drinking Water Bureau." So it's left frankly open They have to submit a plan to the 23 for DES. Department of Environmental Services for approval. 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 MR. HARRINGTON: And then I guess -- I mean, I'm not that familiar with that. 2 But I'm assuming, though it's not specifically stated, that 3 if it's determined that there is nitrates above the 4 baseline showing up in drinking water, that it would 5 be the responsibility of the Applicant to mitigate 6 7 that condition? If it's from this 8 MR. SCOTT: activity, in accordance with the plan that DES 9 10 approves. 11 MR. HARRINGTON: And how does that I mean, let's just say there's nitrates that 12 work? spread throughout the aquifer there. And is it then 13 they're responsible for drilling new, deeper wells, 14 bringing in bottled water or -- I'm just trying to 15 think of how you deal with a house where the well's 16 17 contaminated? I mean, there's not too much options there, are there? 18 19 MR. SCOTT: Again, it's a little bit 20 outside my expertise. But it could be remediation. It could be, as you say, drilling a well, 21 potentially. It could be bringing bottled water in. 22 Again, that would be part of the plan. 23 24 MR. HARRINGTON: Okay. {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

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1	CHAIRMAN GETZ: And then recourse is
2	through DES.
3	MR. SCOTT: Correct.
4	CHAIRMAN GETZ: Any other discussion?
5	MR. HARRINGTON: Just one other
6	follow-up. I don't know, maybe Mr. Iacopino could
7	address this. More of a legal issue.
8	Does DES have the statutory authority
9	to charge the Applicant what it takes in order to
10	make sure that the water situation is cleaned up? I
11	mean, do they what can they do? Can they turn
12	around and my concern is, let's just say something
13	does happen, and there's nitrates in the water well
14	above the baselines. Considering it has been cleaned
15	up and the option is to put in, I don't know, a
16	filtration system in each house that costs \$50,000,
17	does DES have the statutory authority to order the
18	Applicant to, say, spend half a million, a million
19	dollars to do this?
20	MR. SCOTT: I don't see DES every
21	ordering you will spend X amount of money, per se.
22	Typically, DES would order that they rectify the
23	issue. So
24	MR. HARRINGTON: Right. But what are
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1 the options if they don't rectify it then? I mean, 2 you're going to tell them what? Turn off your windmills or -- I'm just trying to figure out how 3 that works out. Because it's not a situation where 4 they can say, well, I'll just turn my windmill off 5 and go home, and I'll take the problem with me. 6 The 7 blasting has caused the problem, even if the 8 windmills never turn once. But the blasting could have a problem on those wells. So, what do they do 9 to ensure that, if for some reason something happens 10 there, then this project decides to get cancelled 11 12 because they don't get their federal funding or something, that the blasting's already done, the 13 water's been screwed up? What recourse do people 14 have that now their wells are no good? 15 MR. SCOTT: Again, I'll answer two 16 17 questions. DES does have the authority -- this goes on way independent of these type of projects. 18 It's a 19 little bit outside my general expertise, so I don't want to be testifying. I want it to be, obviously, 20 21 based on what we do for the record. 22 But again, DES typically would be requiring a remedy. So whether that's -- as you 23 mentioned yourself, it's not outside the realm of 24

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1	possibility, my understanding, you will now provide
2	bottled water, you'll provide some other source to
3	the extent that remediation can happen, that the
4	water will be cleaned, if you will. That's been
5	known to happen in the past also.
6	CHAIRMAN GETZ: Mr. Hood.
7	MR. HOOD: Just maybe to clarify a
8	little bit. We recently had kind of a situation down
9	on our I-93 project where Exit 3 we were blasting.
10	And we were blasting a lot of rock. We had over
11	800,000 cubic feet. So we had more blasting going on
12	down there than what is going to happen, I assume,
13	with these particular locations. But we had
14	monitoring wells in place for other issues. And
15	while we were testing those, we determined there
16	was nitrates were going into directions that were
17	getting into people's wells. And we did DES
18	coordinated with DES, and we shut down our blasting
19	until we did some remedial action, which was in
20	different cases we did do filtration in some houses.
21	In other houses we'd give them bottled water. And
22	we're still doing that. It's on our dime because we
23	were the ones that did the project and because our
24	blasting caused those problems. So we're still doing
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1 that. My understanding, though -- again, I'm 2 not the expert on this -- but the nitrates, they are 3 fairly fast-moving. It's not forever. Once it gets 4 into the water, it dissipates fairly quickly. 5 So it's not going to be a forever type of situation, but 6 it would be for a temporary situation. At this time 7 8 we're still doing bottled water. We still have 9 filtration systems in place. But at some point in time, additional testing will be going on and we hope 10 to get off that situation. 11 MR. IACOPINO: Mr. Chairman, just to 12 answer the legal question that was posed, I would 13 draw the Committee's attention to RSA 162-H, Section 14 12, entitled "Enforcement," specifically Subsection 15 IV which specifically states, "Notwithstanding any 16 17 other provision of this chapter, each of the other state agencies having jurisdiction shall retain all 18 of its powers and duties of enforcement." So DES 19 20 could enforce this in the same manner that they 21 enforce it in other types of projects as well. 22 In addition, the Committee has the power to delegate the authority to monitor the 23 24 construction or operation of any portion of the

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1	facility to a state agency as it deems appropriate,
2	and that authority is contained in RSA 162-H:4, III.
3	So you do have some delegation authority if you
4	wanted to provide a more specific protocol or
5	whatever for the DES to follow in the event that this
6	issue arises.
7	MR. HARRINGTON: Just a follow-up
8	question. The specific condition that the
9	intervenors were asking for was that all residents
10	within 3,000 feet of blasting have their wells tested
11	prior to the blasting, paid for by the Applicant. So
12	they're not actually asking for the groundwater
13	quality sampling program to extend out to 3,000 feet,
14	but only that the baseline testing extend out to
15	3,000 feet. And I just again, not being an expert
16	on groundwater, without the baseline, if the problem
17	were to be let's say it did manifest itself, or it
18	seemed to manifest itself beyond 3,000 feet. How
19	could anybody make the case I mean, someone could
20	make the case, well, that's coming from fertilizers
21	from the farm over there, and there's no baseline.
22	It would make it difficult.
23	So I'm wondering, put this out to the
24	Committee: Is it worthwhile to consider having the
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testing done for wells up to 3,000 feet away, but
limit the groundwater quality program to 2,000 feet
until such time that DES, it sounds like, could
extend it if they felt there was an issue? But
without the baseline testing, I think that would be
pretty difficult to just get going on. So I don't
know what other people think about that.
CHAIRMAN GETZ: Anybody have any
MR. BOISVERT: Baseline testing sounds
like an appropriate step if there is concern. It
makes sense that all parties know in advance what the
situation is, if there is a problem with certain
contaminants before the blasting takes place, and
then it protects from misunderstanding.
MR. HARRINGTON: It protects both
parties I would think.
MR. BOISVERT: Right, it protects both
parties. I think that's a reasonable condition.
MR. HOOD: Mr. Chairman, one thing
that might, depending on the conditions out there
and I don't know how many wells we're talking about
that need to be tested to go from the 2,000 up to the
3,000. But it could be, if the groundwater's
flowing, and you know which direction it's flowing,
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that you maybe put in a monitoring well somewhere up 1 above where the house is, where the well's going to 2 be, so that you could test at that particular well 3 and not have to test all the other wells down from 4 there, and then you know if it's getting into that 5 well and moving that way. So if there's 10 or 12 6 7 homes that have wells, instead of having to test all those or check all those, you could put in a couple 8 of monitoring wells that would pick up the water 9 that's going to get into those wells. We've done 10 that before as well. 11 12 MR. HARRINGTON: Might that be included as part of this groundwater quality sampling 13 program? I don't know if you know that, Mr. Scott, 14 or not. 15 MR. SCOTT: 16 No. 17 CHAIRMAN GETZ: Well, that, I guess, gets to the issue of how specifically can we define 18 19 whether you make a broader requirement that for the 20 pre-base -- the baseline testing, the 3,000 feet, and 21 just make that a requirement, or that you then get into alternatives for how you would do that. 22 MR. HARRINGTON: I hate to over-23 24 second-guess the DES, because they are the water {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

They are the professionals that are doing 1 people. this. So I'm just putting these things out as 2 possible consideration. From what I read, I had some 3 concern, but... 4 5 CHAIRMAN GETZ: Mr. Scott. MR. SCOTT: Again, I'm not opposed to 6 7 I suppose being more protective, I guess, that. 8 can't hurt anything. My point was 2,000 feet is the 9 standard for what the Department does. And based on this, on the approval, the Department has looked at 10 it and didn't see a need to go beyond that, for the 11 12 hydrology and other reasons. MR. HARRINGTON: I would tend to go 13 along with that then, because I don't see -- the 14 3,000 is just an arbitrary number that somebody come 15 up with. As far as what they put in evidence, I 16 17 don't see any specific justification for going to it, other than it's more than 2,000 feet. And if people 18 at DES came up with 2,000 feet based on the standard 19 20 analysis of it, then I guess I'd stick with what they 21 say. 22 CHAIRMAN GETZ: Any other discussion about these issues? 23 Let me just give a little -- I think 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 Mr. Iacopino went into some of the background. But 2 let me kind of lay out that there's about three sources of statutory background to this issue. 3 One is under 162-H:6-a, which is kind of a fundamental 4 section that talks about time frames for review of 5 renewable energy facilities. Under Subsection VI, it 6 7 points out that all participating state agencies shall make and submit to the Subcommittee a final 8 decision on the parts of the application that relates 9 to its jurisdiction no later than 180 days after the 10 application has been accepted. 11 And so what we have here are the 12 permits from DES that Mr. Scott's talked about. 13 And that's -- those permits in the previous two orders on 14 the wind projects, there's been a discussion about 15 those permits in the orders. And, you know, in 16 17 Lempster, for instance, it noted that the wetlands permit and its conditions shall be included in the 18 certificate of site and facility, and also that the 19 Water Division of DES shall issue the alteration of 20 21 terrain permit for water quality certificates, and both permits and conditions be part of the 22 certificate for site and facility. And then there 23 was a specific delegation of authority to the Water 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 Division of DES to monitor the construction and operation of the proposed facility for compliance 2 with the terms and conditions. So that's the way 3 it's been applied in the past. 4 I'd also note, as Mr. Scott did, that 5 there's two references, really, in the Findings 6 7 section, 162-H:16. In the preface section, IV, it 8 says the Site Evaluation Committee, after having considered available alternatives and fully reviewed 9 the environmental impact of the site or route, then 10 it shall make these other findings. And one of those 11 findings is whether there's an unreasonable adverse 12 affect on air and water quality. 13 And so in the orders on this, it's 14 linked those two sections, those two requirements. 15 So there's a discussion of the permits that are 16 17 issued making them binding on the Applicant and then a finding that the -- with respect to air and water 18 quality based on the certificates themselves. 19 So, 20 just for some background on the structure of how the 21 permits relate -- how DES's obligations relate to our obligations and how the permits relate to the order 22 and how it fits into the findings we have to make. 23 24 MR. SCOTT: Mr. Chairman, just for the

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1 record, too, the substation in Holderness, that did 2 not have impacts that required any kind of permitting. So I'd put that on the record also. 3 CHAIRMAN GETZ: So is there -- we've 4 5 had a motion and a vote on air quality. Is there a motion on water quality, Mr. Scott? 6 7 MR. SCOTT: I move that we vote that 8 there is no undue -- excuse me. I want to get the right wording. Adverse --9 CHAIRMAN GETZ: Unreasonable. 10 MR. SCOTT: -- unreasonable -- thank 11 12 you -- impact on water quality due to the project based on acceptance of the DES permits into the 13 certificate. 14 CHAIRMAN GETZ: And that finding is 15 subject to the conditions of the permits; correct? 16 17 All right. Do we have a second? Mr. 18 Perry. 19 MR. PERRY: Second. 20 CHAIRMAN GETZ: Any discussion? 21 MR. IACOPINO: Mr. Chairman, I would 22 just point out for the record that those permits are located in Applicant's Exhibit 5, which is the 23 supplement to the application, Volume IA, and they 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

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	26
1	are under Tab 51 of that volume, just so that the
2	record's clear where those permits are.
3	CHAIRMAN GETZ: Thank you.
4	Further discussion?
5	(No verbal response)
6	CHAIRMAN GETZ: Hearing none, then all
7	those in favor of the motion by Mr. Scott signify
8	their concurrence by raising their hand.
9	(Multiple members raise hands.)
10	CHAIRMAN GETZ: Note for the record
11	that the vote is unanimous.
12	So, anything further, Mr. Scott?
13	MR. SCOTT: That's all.
14	CHAIRMAN GETZ: Let's turn to the next
15	item, Natural Environment. Dr. Kent.
16	DR. KENT: I'd like to review the
17	Applicant's information, including the results of
18	studies, before we turn our attention to the proposed
19	conditions. So bear with me. This will take a
20	little bit. There's a lot of work here.
21	Groton Wind consulted with Stantec
22	Consulting, VHB, and New Hampshire Audubon to
23	complete a number of wildlife and other surveys.
24	Plant community types were identified using data
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1 based on New Hampshire Fish and Game Wildlife Action There were a number of wildlife surveys, a 2 Plan. variety of bird field surveys conducted within the 3 project area over the course of three years: 4 2006. 2008 and 2009. Bird and bat risk assessment was 5 prepared using the results of on-field surveys --6 7 on-site surveys -- excuse me -- and a risk assessment 8 sought to characterize the use of the project area 9 and assess potential risk presented by the project to raptors, nocturnally migrating passerines, breeding 10 birds and bats. 11 12 During the course of the surveys they identified peregrine falcons, bald eagles, common 13 loons, all three of which are state-listed threatened 14 They did not find any federally-listed 15 species. threatened or endangered birds during any of the 16 17 field surveys. Results of radar surveys suggested 18 19 that migration patterns of nocturnal migrants were 20 similar between the fall and the spring. 21 Post-construction monitoring studies conducted at the Lempster Wind project in 2009 showed very low 22 mortality for nocturnally migrating birds. 23 24 Literature review suggests that, while {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 impacts to nocturnally migrating birds occur at most 2 wind energy facilities, very small numbers of birds have collided with turbines relative to the large 3 numbers of nocturnally migrating songbirds. The 4 results of a bird and bat risk assessment prepared by 5 the Applicant's consultants followed a standardized 6 7 weight-of-evidence approach and concluded -- let's The results of the on-field surveys produced a 8 see. 9 low magnitude of potential impact to nocturnal migrants. 10 Breeding birds. No state- or 11 12 federally-listed species were observed during the breeding bird surveys. Generally, direct and 13 indirect impacts to breeding birds at the project are 14 expected to be limited to a small amount of collision 15 mortality and slight shifts in the distribution of 16 17 breeding bird species. The results of the bird and bat risk 18 19 assessment predicted a low magnitude of potential 20 impact to breeding birds. 21 Raptor migration. Species observed most frequently during the spring and fall migration 22 surveys included broad-winged hawk, red-tailed hawks 23 and turkey vulture. 24

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Two state-endangered raptor species 1 2 were observed in 2009, the golden eagle and Northern Harrier; however, neither occurred in the project 3 4 area. 5 Two state-threatened raptor species were observed, peregrine falcon and bald eagle, both 6 7 of which were observed in the project area. The common loon was also observed. 8 9 During the first year of post-construction monitoring studies at Lempster in 10 2009, no raptor fatalities were documented. 11 The 12 results of the bird and bat risk assessment predicts a low magnitude of potential impact to raptors. 13 Peregrine use. 14 There were peregrine-use surveys in 2006 and 2009. Over the 15 course of the surveys, only four peregrine falcons 16 17 were observed within the project area, with three of the four peregrine falcons observed flying within the 18 There's been a low documented 19 project boundary. peregrine falcon mortality at wind projects. 20 The 21 summer/early fall, peregrine falcon surveys also documented low to moderate numbers of seasonally 22 local and migrant raptors at locations above the 23 project area, and relatively high percentages of 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 raptors flying below the height of proposed turbines. The bird and bat risk assessment 2 predicted a low magnitude of potential impact to 3 raptors, including peregrine falcon. 4 Two seasons of summer/fall 5 Bats. acoustic monitoring found relatively low bat activity 6 7 in comparison to similar studies conducted at other 8 proposed wind projects in the Northeast, including those that are currently operational. Bat activity 9 levels recorded within the project area were 10 generally low. 11 Post-construction studies conducted in 12 2009 at Lempster documented only one little brown bat 13 Indirect impact to bats are expected to be 14 fatality. minor at the project. 15 Avian and bat mitigation. 16 Groton will 17 commit to one year of formal post-construction monitoring, similar to efforts currently underway at 18 19 Lempster. This study will cover both spring and fall 20 migration seasons for both birds and bats. If, after 21 one year of study, the project's mortality rates are lower or within the range of other northern forested 22 wind project locations, Groton Wind will immediately 23 implement yearly monitoring for the life of the 24 $\{\text{SEC 2010-01}\}$ [DAY 1 - AFTERNOON SESSION ONLY] $\{04-07-11\}$

1	project as described in the Iberdrola Renewables
2	Avian and Bat Protection Plan. This includes
3	training operations staff in wildlife reporting and
4	handling system for avian and bat casualties or
5	injured wildlife.
6	If, after the first year of study,
7	Groton Wind's mortality rates exceed the most current
8	established threshold ranges for mortality at wind
9	projects on northern forested ridges, Groton Wind
10	will conduct a second year of post-construction
11	monitoring similar to the first, but with an emphasis
12	on determining why mortality rates have exceeded
13	estimated thresholds.
14	Other wildlife. The project site
15	provides wildlife habitat for a number of species,
16	albeit modified substantially by the timber
17	harvesting operations. Moose and bear, and moderate
18	to heavy use by a variety of wildlife species, there
19	should not be a substantial change in the patterns of
20	wildlife habitat use and in movements around the
21	site.
22	Natural Heritage Bureau found no known
23	state- or federally-listed species within the project
24	limits or any of the exemplary natural communities.
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1 Natural Heritage Bureau indicated 2 there were populations of wood turtle and peregrine falcon in the vicinity of the site. Native 3 population of brook trout occur in Clark Brook, as 4 well as the potential for deer wintering areas on the 5 project site. The Applicant's consultants determined 6 7 that it's unlikely that any wood turtles exist on the site. Three deer wintering yards were identified. 8 One seemed to be in use in the yard's position in the 9 lower valley and away from the proposed wind turbines 10 and is not expected to be impacted. 11 12 Proposed improvements to the access roads, particularly the culverts, should improve 13 Eastern Brook Trout habitat. 14 Eleven vernal pools were identified on 15 the project site, and another six wetlands with the 16 17 potential to be vernal pools were identified. The project has been designed to avoid direct impact to 18 Three cases where there will be 19 vernal pools. 20 indirect impacts to documented vernal pools. 21 As to the Avian and Bat Protection 22 Plan that the Applicant proposes as a condition, as I said earlier, typically there's one year of intensive 23 study which may include: Avian and bat mortality 24

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1	monitoring, avian-use surveys, raptor nest surveys,
2	radar studies and/or thermal imaging. That's the
3	formal monitoring.
4	If the first year's results indicate
5	that the mortality is not much different than at
6	other facilities, the second year will be the
7	beginning of informal monitoring, called an
8	informal excuse me will implement a
9	site-specific wildlife reporting and handling system.
10	The operator who finds a dead bird or bat will leave
11	it in place, photograph it and record the finding.
12	If the bird's a protected species, the fact should be
13	reported to Iberdrola's environmental staff, who will
14	inform the appropriate state or federal wildlife
15	agency. Any eagle carcass must ultimately be
16	delivered to the National Eagle Repository. If a
17	bird or bat is alive but injured, the operator will
18	notify the wildlife rehabilitation center.
19	Several impact reduction and
20	mitigation measures were proposed in the Avian and
21	Bat Protection Plan. For example: Iberdrola is
22	exploring the use of permanent on-site radar to
23	detect major migration events and movements in the
24	vicinity of turbines; off-site retrofitting of
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1 transmission and distribution lines with avian-safe 2 design; adaptive management measures, including research that will reduce bat impacts... such as 3 curtailments or relocation of turbines would be 4 considered a last resort. And experimentation with 5 seasonal curtailment to determine whether management 6 actions, such as changing turbine cut-in wind speeds 7 8 with certain combinations of wind speed, time of year, time of night, might significantly reduce bat 9 mortality; bat-deterrent devices; expanded research 10 in bat risk assessment; habitat conservation, habitat 11 12 enhancement; participation in regional conservation banks or acquiring conservation rights. 13

The Applicant had a meeting with U.S. 14 Fish and Wild Service and the Department of Fish and 15 Game to talk about birds and bats. To summarize 16 17 those discussions, Fish and Wildlife Service stated the Concord office of the Fish and Wildlife Service 18 19 stated -- or recommended three years of radar study to evaluate potential impacts to nocturnal migrants. 20 21 Fish and Game suggested pre- and post-construction breeding bird surveys. Fish and Wildlife Service 22 suggested acoustic monitoring for bats, including 23 monitoring stations in the peaks and valleys of the 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 ridge. Fish and Game suggested Iberdrola work with 2 Chris Martin of New Hampshire Audubon, as well as New Hampshire Fish and Game, to review specific peregrine 3 falcon survey protocols. 4 5 A couple of results that are pertinent Spring 2008 radar survey report. 6 to this: The 7 overall passage rate for the survey period was 234 8 targets per kilometer per hour; 12 percent of those targets were below the height or within the height of 9 the towers themselves. So if you work out the 10 numbers, 234 targets per kilometer per hour, 12 hours 11 of study, gives you 2,808 targets. If 12 percent of 12 those targets are within the range of the towers and 13 the rotors, that's 336 birds and bats per night. 14 Diurnal raptor surveys. Eleven days 15 in 2009, total of 175 raptors of 11 species. 16 That's 17 a spring survey. In the fall raptor survey, 10 days, 696 raptor observations representing 14 species, 18 19 including four bald eagles. Summer and early fall 20 2009, peregrine falcon-use surveys over a 20-day period, 3 of the peregrine falcon observations from 21 Tenney Mountain were peregrines within the project 22 area, and the 3 observations occurred below the 23 maximum height of the proposed turbines. 24

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1 During that survey, they also found 2 that 48 percent of 327 raptors that came from Bald Knob occurred within the project area; 69 percent of 3 these observations occurred below the maximum turbine 4 height; 87 percent of raptor observations made from 5 Tenney Mountain occurred at some locations over the 6 7 project area; 54 percent of these raptor observations 8 occurred below the maximum turbine height. If you work out those numbers, Bald Knob observations, we 9 have 108 raptors flying at a level that is at or 10 below the turbines; from Tenney Mountain, 122 11 12 raptors. And the last piece I want to share 13 with you is from Lempster. The 2009, the first year 14 of Lempster, was never available. It was directed to 15 Fish and Game. They weren't able to provide it. 16 But 17 they did provide the 2000 [sic] post-construction fatality surveys for Lempster. It has four 18 19 components: Standardized carcass surveys; searcher 20 efficiency trials; carcass removal trials; and 21 adjusted fatality estimates. A total of 11 bird carcasses and a 22 total of 14 bats were found. The annualized fatality 23 rate estimates are 5.27 birds per turbine, 7.13 bats 24

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1	per turbine. For 12 turbines, that works out to 63
2	bats 63 birds per year and 86 bats per year. If
3	you extrapolated that to Groton and assume the same
4	kind of mortality as the consultants have suggested
5	on several occasions, Groton has 24 turbines; we're
6	looking at 126 birds per year, 171 bats per year.
7	The Applicant has proposed that with
8	regard to the natural environment, they proposed
9	conditions that include the Iberdrola Avian and Bat
10	protection Plan, which I've gone through with you,
11	and the agreement with New Hampshire Fish and Game
12	Department. New Hampshire Fish and Game Department
13	conditions are stated in a letter of March 21st,
14	2011. It says highlights of the agreement include
15	the following expectations: Iberdrola will commit to
16	bat acoustic detection monitoring during the first
17	year of post-construction and will attempt to
18	correlate the activity data with post-construction
19	fatality. Iberdrola's committed to continue
20	coordination with Fish and Game throughout the life
21	of the project. Baseline and operational
22	monitoring baseline is that first year that
23	Iberdrola where they do fairly rigorous mortality
24	surveys. Operational monitoring is when we turn it
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over to the operations people, and they make note of 1 dead birds and bats. 2 Baseline and operational monitoring 3 will be conducted to collect information that will be 4 used to implement adaptive management actions to 5 minimize or avoid risks and identify mitigation 6 7 measures. 8 Iberdrola has committed to conducting mortality surveys throughout the life of the project 9 as described in the Groton Wind New Hampshire SEC 10 Application and the avian bird and bat protection 11 plan, using baseline and operational monitoring. 12 And finally, Iberdrola will provide a 13 yearly mortality report to Fish and Game, including 14 both baseline and operational monitoring, and will 15 discuss any concerns with Fish and Game regarding 16 17 mortality data, including the need for adaptive management measures. 18 So that's the information we're 19 Thank you for your patience. Let's go 20 working with. 21 from there. Public Counsel has recommended the 22 same condition we used for Granite Reliable, which is 23 basically three years of monitoring. Are there any 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 questions at this point before I leap into starting 2 to express opinions? CHAIRMAN GETZ: Mr. Perry. 3 MR. PERRY: Just so I understand the 4 difference between the conditions that were with 5 Granite Reliable and the Iberdrola Avian and Bat. 6 7 It's one year of formal post and then a lifetime of reduced monitoring versus three fairly intensive 8 years of post-mortalities. So it's a trade-off of 9 two intensive years of post for the lifetime of, you 10 know, walking through and randomly surveying for dead 11 Is that really where the difference 12 birds and bats. lays between the two? 13 Yes. And I'm trying to 14 DR. KENT: find the exact language for Granite. 15 Do you have that? Forgive me. 16 17 MR. HARRINGTON: I think if you look on the afternoon of Day 4, under Lloyd-Evans's 18 19 testimony, he does -- I think he goes into explaining the difference between his recommendations and those 20 21 of Mr. Gravel's. 22 (Pause in proceedings while members read documents.) 23 DR. KENT: For Granite Reliable, the 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	Applicant shall implement a post-construction bird
2	and bat mortality study designed by its consultants,
3	reviewed and approved by Fish and Game. Studies
4	should be conducted for three consecutive years, and
5	a full report and analysis shall be produced after
6	each year.
7	Applicant shall conduct additional
8	pre-construction breeding bird surveys and raptor
9	surveys, and such other surveys as can be
10	accomplished prior to commencement of construction.
11	So that's pre.
12	Applicant shall conduct
13	post-construction breeding bird survey that replicate
14	the pre-construction surveys for the project site.
15	Protocol for such study shall be subject to review
16	and approval. Post-construction studies shall occur
17	at 1, 3 and 5 years after construction has been
18	completed. A full report with analysis shall be
19	submitted after each year. If the Applicant and New
20	Hampshire Fish and Game cannot achieve consensus on
21	any issue pertaining to such post-construction
22	surveys, they may petition the Subcommittee for a
23	final determination.
24	Further ordered, if after notice and
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1 an opportunity to be heard, the Site Evaluation Subcommittee determines that the project is having an 2 unreasonable adverse impact on any species, it may 3 take appropriate action within its jurisdiction. 4 5 MR. PERRY: Okay. So I think my understanding is, then, with the Granite Reliable, it 6 7 leaves the door open if post-monitoring shows that 8 mortality is higher than anticipated; that additional monitoring could occur above and beyond what's stated 9 for three consecutive years, or year one, three and 10 Would that be a correct interpretation? 11 five. 12 DR. KENT: Yes. But not only monitoring, but any adaptations, mitigation that had 13 to occur to lessen the impacts. 14 Okay. Thank you. 15 MR. PERRY: CHAIRMAN GETZ: Anyone else? 16 17 DR. KENT: Okay. Let me throw some things on the table for you. 18 19 The Applicant's consultant's basis for 20 determining level of risk is based largely on 21 mortality at other wind projects. In some sense, this is an uncomfortable standard, when what we're 22 trying to do is try to determine if there's an 23 impact. I'm not convinced that an impact that's 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 comparable to impacts at other wind projects is an It doesn't -- it leaves open 2 appropriate measure. the question: If impacts are bad or adverse at all 3 wind sites, should we just allow more adverse impacts 4 at this site because it's no different than the other 5 Not to mention there's hardly any forested 6 sites? 7 sites in New England for comparison. Those that are 8 there, like Lempster, are only a couple years into operation. So there's not a lot of material here. 9 But the question I throw out is, if 10 there's no objective criteria here, the criteria is 11 12 we're okay if we do no worse than anybody else running a wind project. And is that really an 13 ecological basis for an assessment of whether we're 14 impacting the environment, particularly birds and 15 bats, or not? So I put that on the table. 16 17 Nobody wants to tackle that one, huh? MR. HARRINGTON: Well, maybe just a 18 19 question. I'm looking at the response from the 20 Applicant to the various conditions filed. And one of these was post-construction survey of three years, 21 22 consistent with the recommendation of Public Counsel's expert witness in this regard. 23 Stricter requirements placed if any threatened species are 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 Applicant says -- response: killed. Not acceptable. 2 Proposed condition is unjustified and contradicts the recommendations of the New Hampshire Fish and Game 3 Department, which has responsibility and authority to 4 5 protect wildlife in New Hampshire. The Applicant has recommended that its commitments to Fish and Game 6 7 relative to post-construction surveys and monitoring, 8 which are spelled out in detail in its post-hearing brief, be included in certificate conditions. 9 So I guess the first thing I'd say is 10 the three-year survey you seem to be saying is 11 consistent to what was imposed on the Granite 12 Reliable project. But in this case, does Fish and 13 Game go along with what the Applicant is saying, or 14 do they go along with the three years' survey? 15 DR. KENT: In their letter of 16 17 March 21st, they're saying they're content with one year of rigorous mortality assessment and a lifetime 18 19 of less rigorous assessment, as proposed by 20 Iberdrola. 21 MR. HARRINGTON: So this is correct 22 then; New Hampshire Fish and Game does agree with the position of the Applicant. 23 24 DR. KENT: Does agree -- Fish and Game

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1	and the Applicant are in agreement about how to do
2	bird and bat avian and bat monitoring, yes.
3	MR. HARRINGTON: Thank you.
4	DR. KENT: Oh, that's a different
5	issue. Do you want to tackle that one now?
6	MR. HARRINGTON: I'm okay. If that's
7	different, I'm confused why it's different.
8	CHAIRMAN GETZ: Well, let me see if I
9	can formulate it. There's a you have to go back
10	to what's the standard. The Applicant has to
11	demonstrate that there will be no unreasonable
12	adverse effect on the natural environment, one subset
13	of natural environment being bats and birds. They
14	have provided, I guess, Dr. Kent, what you would
15	characterize as some generalized testimony based on
16	what's happened elsewhere and transposed it to Groton
17	to say it looks like there's going to be no
18	unreasonable adverse effect. And Dr. Kent is raising
19	the issue of is that a valid approach. What these
20	other a lot of what these post-construction
21	mortality studies go to is the issue of if something
22	happens after the fact, then it's really a
23	protection or a condition that, if there are some
24	negative effects, that there will be some kind of
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mitigation or some remedy, and I guess ultimately 1 going to some restriction on operation of turbines in 2 certain areas or at certain parts of the year. 3 So I think that may be how do you make the first finding, 4 and then what do you do in terms of linking that 5 finding or decision to studies and remedies related 6 7 to what you get out of those studies. I don't know 8 if that --MR. HARRINGTON: So we're --9 CHAIRMAN GETZ: Wait, wait. Before we 10 get there, I want to make sure. Am I characterizing 11 fairly the issues that you're proposing? 12 DR. KENT: I don't want to try to read 13 Fish and Game's mind. I can tell you with Granite 14 Reliable, we settled on three years as a 15 statistically valid length of time to make some 16 17 determinations about what was going on. Now, one 18 year --19 CHAIRMAN GETZ: We're talking post. 20 Pre or post? 21 DR. KENT: We're talking post now. 22 Too late for pre. If you do one year, the result could 23 go anywhere. It could be, Hey, hardly anything died, 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 and you go, oh, that must be the way it's going to 2 be. You know, the client's happy, the Applicant's happy because things look good. That first year 3 could go very badly, and all of a sudden there's 4 pressure on the Applicant to rip out some turbines or 5 start buying conservation land or pay into a fund. 6 7 Anything can happen in the first year, any one year 8 of study. So our thinking when we did Granite 9 was let's get three years and start to look for a 10 trend and start to get a sense of what's really going 11 12 This has become increasingly important, as the on. client's consultant -- the Applicant's consultant 13 helped us understand. We can't make any correlations 14 between these pre-construction surveys and what's 15 going to happen afterwards. We lost that 16 17 predictability, in essence, which is ironic, because now we're looking at all of us trying to make that 18 19 connection. And Fish and Game, in their newest 20 guidelines, are trying to make that connection 21 between the risk assessment, what happens up front and what's happening before. But the consultants in 22 this testimony have said you can't make that 23 24 connection.

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1 MR. HARRINGTON: This gets back to 2 that whole area that you just partake in these surveys. If you take them for one year 3 pre-construction or 10 years pre-construction, then 4 you see what happens after the project goes online. 5 We've been shown by various projects that there's 6 7 really -- you can't make a prediction based on that. 8 DR. KENT: Based on pre. 9 MR. HARRINGTON: Based on the pre. Right. 10 That was the consultant's 11 DR. KENT: 12 testimony. MR. HARRINGTON: You don't know how 13 it's going to work until they actually put them up 14 there and start spinning the blades. 15 DR. KENT: Right. I personally 16 17 believe there's a correlation there somewhere. But nobody's found it, apparently, and nobody's testified 18 19 to it. 20 So we're dependent on what happens 21 after construction, really, to figure out what the impact's going to be. So it becomes very important 22 to get the right information to make that 23 determination, whether you're the Applicant or the 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 Committee. You need good information to go forward. 2 CHAIRMAN GETZ: Dr. Boisvert. MR. BOISVERT: I was listening to the 3 testimony during the hearings regarding the avian 4 impacts, and with some interest. What I see here is 5 an attempt to understand a basis to establish linear 6 7 trends over time, in terms of fatalities for birds 8 and bats. One year of careful monitoring does not seem to be adequate to develop any sort of idea of 9 what is average. You cannot average a single point. 10 And can't draw a linear trend based on one point. 11 12 You need more than that. Three years, I believe, would be much more appropriate because you would have 13 more of an opportunity to sample variations, changes 14 in climate, weather conditions -- climate being what 15 you'd expect, weather being what you get. And that 16 17 would give a much sounder basis to interpret whether or not the fatality of 50 bats in a year is high or 18 19 low. And the whole point is to determine whether or not there needs to be any mitigation to lower the 20 21 number of fatalities, should that be necessary. As I understand, an indication would 22 be turning off some of the turbines for certain 23 periods of time, either at night or whatever, to 24

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lower the opportunity for impacts and so forth, 1 2 whatever those mitigation treatments might be. I am not persuaded by the testimony that I heard that one 3 year is sufficient to provide me with comfort that 4 they have identified the true scope. And we need to 5 have that in order to determine whether you're going 6 7 to get mitigation efforts and what those efforts 8 might be. CHAIRMAN GETZ: Mr. Steltzer. 9 MR. STELTZER: In the Granite Reliable 10 situation, on the number of years of 11 post-construction study, was it New Hampshire Fish 12 and Game's recommendation to have three years? 13 DR. KENT: Was it Fish and Game who 14 made the request? 15 MR. STELTZER: What I'm trying to 16 17 address here is, it's my understanding that, for the Granite Reliable project, it's a different site than 18 19 what we're talking about here. And there were other 20 mitigative measures that were taken to help mitigate 21 the impact that was potentially to occur to the avian and bat species, specifically that there were some 22 land conservation. So I'm trying to delineate Fish 23 and Game's recommendations underneath their review 24

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1 for a project that they deemed possibly more Is it -- was that the case for Granite 2 pristine. Reliable versus the project that we have before us, 3 which is the Groton Wind project? 4 CHAIRMAN GETZ: Well, I think I 5 understand what you're saying. Did the Fish and Game 6 7 say this is the answer for Granite Ridge [sic], and 8 it now has maybe a different answer for this project, and should we be according some kind of deference to 9 them based on maybe they designed a specific answer 10 to a specific set of circumstances? And I guess I 11 haven't gone back through and haven't -- without 12 looking at a record, know how the -- done a little 13 more research to know how the condition evolved. And 14 I'm not sure if Dr. Kent recalls, but... 15 (Discussion between members off the 16 17 record.) DR. KENT: Well, let me ask -- answer 18 19 that the best I can, not being Fish and Game, but 20 being there. 21 Fish and Game was most concerned about Martens and lynx in high-elevation corridors, and 22 that was the primary basis for the mitigation deal 23 that was struck before -- very early in the 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 proceedings of this. I can't tell you who first It might have been me. 2 proposed the three years. But I don't remember for sure. I don't think it 3 was -- Director Normandeau was sitting on that 4 committee, and I don't think he did. So it might 5 have been me. But the issues at the time were lynx 6 7 and Martens at high elevation. 8 MR. STELTZER: My understanding from that project as well was the sensitive habitat that 9 it had in high elevations to birds, such as some of 10 the different types of thrushes. 11 DR. KENT: I'm not sure the Bicknell 12 came into play too much. There was a woodpecker, 13 But I don't think either of those birds were -too. 14 I don't think we spent a lot of time talking about 15 either of those. I mean, that was part of the point 16 for trading off for some high-elevation land 17 elsewhere in the mitigation deal. 18 MR. STELTZER: And here's where I'm 19 20 going with it: There's been some discussions about 21 what is a migratory corridor. And I think it could 22 be argued that the entire East Coast is a migratory corridor. And so I'm trying to figure out what is an 23 appropriate amount of post-construction study that 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 should be done on a project based off of a site and And maybe in the case of Granite Reliable 2 its uses. and their project, since it was a more impact --3 there was a more pristine area which could 4 potentially have greater impacts, you would want to 5 have a longer period of study, but for the Groton 6 7 project, where it is an active wood lot being used, 8 that it might not be warranting the same level of study that is needing to be done. 9 DR. KENT: Granite actually wasn't all 10 that pristine. The Phillips Brook area was pretty 11 heavily logged, and badly logged. There had been 12 logging above 2700 feet at high elevation as well, 13 and that created some impetus to get a deal done and 14 to limit logging, any more logging at that area. 15 Certainly the elevation is higher. It changes the 16 17 ecology. So it was particularly important to the resource agencies. 18 19 As to the mitigation corridors, I 20 don't think that's accurate to say that all of the East Coast is a mitigation corridor. Birds typically 21 follow particular routes. I mean, people make a good 22 tourist trade out of knowing where the birds are 23 24 going.

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1	We're talking about a ridgeline. We
2	know there's migration. There's study the
3	consultants have demonstrated that there's hundreds
4	of raptors, hundreds, maybe more, thousands I
5	forget the numbers of songbirds. I mean, birds are
6	migrating over the project site.
7	So I'm trying to help you get to the
8	end of where you're really trying to get. Is this
9	site less valuable than other sites, and should we
10	cut it some slack because it's not as important? Is
11	that what you're trying to sort out?
12	MR. STELTZER: I don't know if I'd use
13	those words exactly.
14	DR. KENT: Sorry.
15	MR. STELTZER: But I do think that the
16	level of post-construction study should fit the site
17	itself. My own sense is that there are some unique
18	uses occurring here. Certainly peregrine falcons are
19	noted as being nesting in close proximity, though
20	outside of the study area itself. But there were
21	I believe there were four cases of them visiting this
22	site during the study period.
23	So what is that exact level? And I
24	don't know if it's necessarily what Fish and Game and
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1	the Applicant have suggested, as far as being one
2	year and then a continuous study. But I also don't
3	know if it's so far as to suggest that it's a full
4	three years that the draft document that U.S. Fish
5	and Wildlife has proposed, which individuals have not
6	yet commented on, whether that's adequate either.
7	CHAIRMAN GETZ: Mr. Scott.
8	MR. SCOTT: Maybe I can help or
9	hurt. We'll see here.
10	First of all, you know, obviously I
11	remember the Granite Reliable. Did I get that right?
12	Granite Reliable Energy. The Noble Wind Farm.
13	Obviously, you had the higher elevation aspects. But
14	with that, of course, we had great involvement with
15	the Appalachian Mountain Club and the Audubon
16	Society. So it was very I think it was very
17	and Fish and Game, obviously. So it was very well
18	vetted. But I don't remember the three years being
19	necessarily because of that. But having said that,
20	maybe the group can help me. I thought what one of
21	the things and maybe it's in Day 4 testimony I
22	thought one of the things that was being postulated
23	was what's different about this project was they have
24	as a company policy that they do this for the
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lifetime of the project, not necessarily to the same 1 2 extent, but they have a plan that they move forward. Is that not correct, or is my memory not serving me 3 right? 4 5 They dropped down to DR. KENT: Yes. informal, where the operation staff was trained to go 6 7 out there and look for the birds, take a picture and 8 write down what the species is. MR. SCOTT: So, just to capture, the 9 question I think is, is that therefore sufficient, or 10 do we need three years and that; is that correct? 11 12 DR. KENT: I'm sorry. Repeat your question? 13 So the question at hand 14 MR. SCOTT: is, I think is, is one year of more advanced 15 post-construction surveys, and is that sufficient; or 16 17 do we need to do three years plus that? Is that Is that pretty much what we're discussing? 18 correct? 19 DR. KENT: What I'm representing is that you need the three years of rigorous study so 20 21 you can determine what the trend is. Ultimately what we're trying to do is determine the impact, 22 regardless of how sensitive this place is. We can't 23 determine how sensitive it is until we know what the 24 $\{\text{SEC } 2010-01\}$ [DAY 1 - AFTERNOON SESSION ONLY] $\{04-07-11\}$

1	impact is. We can't do that with one year. And
2	while I commend Iberdrola for having a long-term
3	commitment, that informal monitoring does not lend
4	itself to the same analysis, and hence, to reaching a
5	conclusion about the impacts as that first year of
6	monitoring.
7	And there's some you know, it's
8	unfortunate I could only get the 2010 Lempster
9	report. But there seemed to be some suggestion that
10	the numbers differed from the first year. For
11	example: There was one bat in the first year and 14
12	in the second year. Now, that's quite a difference.
13	So it be nice to see. Here we had a project at
14	Lempster and we had two years of study. But that
15	wasn't rep it would have been nice if that was
16	brought forward to us as the Committee to see, oh, it
17	doesn't make any difference how many years we do it,
18	'cause the second year was the same as the first
19	yeah. It could have gone, okay, no big deal. But we
20	didn't get to see it for some reason. So now we're
21	left going, well, what makes sense? Well, as
22	scientists and statisticians, we know that one year's
23	a joke; two years, not very good. Three years is the
24	absolute minimum for trying to figure out what's
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going on out there. And that's where the three years 1 And there are some sensitivities out 2 comes from. here -- go ahead. 3 Sorry. 4 CHAIRMAN GETZ: Mr. Dupee. 5 MR. DUPEE: Thank you, Mr. Chairman. I have to harken back to when I was a 6 7 younger fish biologist at Fish and Game, like a 8 century. But I did a fair amount of work in graduate school on quantitative ecology. And the point being 9 made here I think is a good one. It's the amount of 10 variation and the population you're looking at 11 determines how many samples you need to take. 12 So if Steve has a pool of fish, 13 each -- 5,000 fish, and they're all five inches long, 14 he needs to sample exactly one of them to know all he 15 needs to know about the length. If the fish in that 16 17 pool vary in length substantially, he has to take a lot more samples to get an average length. 18 19 So, going on to our bird population, 20 you pointed out, Dr. Kent, that in any one year we 21 saw an order or magnitude variation. I think it was 1 to 14 bats. And that doesn't surprise me a bit. 22 It wouldn't surprise me 1 to 114 or 1014. So I think 23 the three years -- it could be, you know, many more 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

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1 years than that to really know. You need a variance 2 and then go back and calculate your sample size. Not to get technical, but that's what you'd have to do. 3 So I think the better motion here 4 might be the random survey or a survey we heard the 5 Applicant talk about. And I like that for several 6 7 reasons: One, we're not ever going to be able to 8 compare this site quantitatively to any other site for the reasons kind of alluded to way back when. 9 They're all unique. There's too many variables to 10 control. So we can control by looking at this site 11 and comparing it to itself over a period of time. 12 So by having a longer term monitoring strategy in place, 13 and it could be -- this Committee could make it more 14 rigorous than simply walk a straight line and stop 15 and take a picture. We could do more of that if we 16 17 wished. But it would be nice to truly have a longer term sample length to better understand populations 18 19 moving around that facility. 20 The second thing I'd mention, Dr. 21 Kent, is when I was a young man, there were no turkey 22 vultures in New Hampshire. But we have them here now. And so if we were to simply rely on three 23 years' worth of sampling back in 1963, we'd be 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	missing potential species at risk. So again, I think
2	that a longer term series of monitoring may better
3	serve the Committee to understand the potential
4	mortality resulting from facility on avian and bat
5	populations in that facility, or any other facilities
6	we chose to study.
7	CHAIRMAN GETZ: Mr. Harrington.
8	MR. HARRINGTON: Yeah, I just I
9	think that Mr. Steltzer raised a good point here,
10	because we do seem to have a difference. I'd like to
11	know what the Fish and Game did recommend in the
12	Granite Ridge case the Granite Reliable case. But
13	as Mr. Iacopino pointed out to me, Fish and Game in
14	this case, on November 5th, in their letter said
15	"Final Report and Recommendation for Groton Wind."
16	It states, "However, the Department does recommend
17	that the Applicant implement a post-construction bird
18	mortality study designed by a consultant and reviewed
19	and approved by New Hampshire Fish and Game. The
20	studies should be conducted for three years, with
21	full reports produced after each complete year.
22	Apparently, from that time in November
23	until some I'm not exactly sure when, but sometime
24	prior to now, Fish and Game changed their position
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and decided that the proposal of the Applicant, which 1 was the one-year study and then this continuous thing 2 that's already been described that could go on after 3 that, was acceptable, and I guess better than the 4 three-year study. So I'd like to see more 5 information, if it's available at all in the record, 6 as to -- I don't know where to find it -- as to what 7 8 document did they actually their change their mind in, and did they give any reason for saying we accept 9 this in lieu of the three-year study which we 10 previously had requested. 'Cause they changed their 11 Fish and Game changed positions on this. 12 minds. CHAIRMAN GETZ: Well, we have a 13 I think Dr. Kent --14 letter. DR. KENT: March 21st. 15 CHAIRMAN GETZ: The 21st of March 16 17 explains where they ended up. Now, I don't know if in that letter it explains the rationale for how they 18 19 got there. 20 DR. KENT: They met with Iberdrola and 21 its consultant and talked about it. 22 MR. IACOPINO: Mr. Chairman, just for the record, the first Fish and Game letter, dated 23 November 5th, 2010 that Mr. Harrington referenced is 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

Applicant's Exhibit 50, and the March 21, 2011 letter 1 from Fish and Game is Exhibit 72, I believe. 2 Applicant's Exhibit 72. 3 The other thing I would point out for 4 this Committee, although I don't think it answers the 5 question as has been posed, in the Granite Reliable 6 7 docket, Fish and Game actually intervened as a party. 8 They did not in Lempster or in this particular docket 9 we're considering today. It is 10 DR. KENT: Excuse me. I'm just putting things on the table, and 11 confusing. the Committee can make up its mind, of course. 12 You know, Fish and Game changed it's 13 mind after meeting with the consultant. That's their 14 Trevor Lloyd recommended three. 15 right. The committee came up with three before. Fish and Game, 16 17 in this new guidance, recommends two to five, depending on the severity of the risk. And, you 18 19 know, even though this is a draft document, it's had 20 a lot of hands in it. So it was actually a document 21 that developed out of a previous committee that brought in people from all over the place, all kinds 22 of people. Just brought them together, and that's 23 what produced this document. So it's not something 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 somebody threw together and is waiting for feedback. Fish and Game now -- Fish and Wildlife Service in the 2 Concord office has also been recommending three years 3 on these projects. And to my knowledge, they haven't 4 5 changed their opinion. So there's a lot of push behind the three years. But the point is we're 6 7 supposed to try to figure out what the risk is and 8 what the impacts would be. And so we have to come up with a way to do that. And we could just defer to 9 the new opinion of the Fish and Game and leave it at 10 that, and we can enter their March letter and assume 11 that they know better than we do, or we can think for 12 ourselves about what's necessary to determine level 13 of risk and level of impact -- determine level of 14 impact. 15 MR. IACOPINO: Mr. Chairman, Dr. 16 Kent's made several references to Fish and Game and 17 the draft guidelines. I believe you mean U.S. Fish 18 19 and Wildlife, those guidelines. Is that --20 DR. KENT: Yes. Did I call it Fish 21 and Game? 22 MR. IACOPINO: Yes. And they are set forth in the record at Counsel for the Public 23 Exhibits 21, 22, 23 and 24. And that's both -- with 24

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1	each exhibit is a Federal Register publication that
2	contains the reference to the guidelines. And then
3	the guidelines as a whole are Public Counsel 22 and
4	Public Counsel 24. And that's the U.S. Fish and
5	Wildlife Service Draft Land-based Wind Energy
6	Guidelines and the U.S. Fish and Wildlife Service
7	Draft Eagle Conservation Plan Guidance. And both of
8	those, I think, came out in January of 2011.
9	DR. KENT: I don't know at what point
10	you want me to make this last confusing addition here
11	to this discussion, and then I'm probably going to
12	just be quiet and let it play out.
13	Even with the mortality surveys,
14	whether you do three years or you do one year and
15	then you change it to informal, no matter what you
16	do, you still need to establish context. You don't
17	know you know, like if I get 100 birds dead, I
18	don't know whether that's a lot or a little unless I
19	know what the population is that I'm drawing from.
20	So, to actually be able to determine what kind of
21	impact we're making, you need to have breeding bird
22	surveys, raptor surveys, nocturnal migrating bird
23	surveys and bat surveys, so you have some idea of the
24	population. And then, when you do your mortality,

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1 you know what that number is relative to the pool of 2 what could die. And now that I've thrown that on the table, I'll just leave it there. 3 CHAIRMAN GETZ: If you could clarify 4 one thing for me. When you talk about three years of 5 post-construction mortality studies, as I understand 6 7 was the condition in Granite Reliable, those weren't 8 necessarily the first three years. That could be, 9 like, years one, three and five. Is that how that played out there? 10 That's how we did it in 11 DR. KENT: Granite, yes. 12 CHAIRMAN GETZ: And so what you're 13 opposing really is -- I think in your summary there 14 was the way it was done in Granite and there's the 15 way it's proposed here. The way it was done in 16 17 Granite had three separate years, years one, three and five, of intensive post-construction mortality 18 19 studies. And, you know, for all intents and purposes, after that, there's not a lot of real close 20 study. What's been proposed here is a single year of 21 intense post-construction mortality study and then a 22 much more extended, lighter review. 23 Is that a 24 fair --

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1 DR. KENT: Less interpretable numbers 2 is the way to characterize it. But there's a mistake -- just to correct you. In Granite Reliable, 3 we weren't that clean. We talked about 4 post-construction bird and bat mortality for three 5 consecutive years and breeding bird surveys in years 6 7 one, three and five. So we broke it up, for better 8 or worse. 9 CHAIRMAN GETZ: So, then, I guess your position is, between those two, if those were our 10 only two options, what was done in Granite Reliable 11 and what's been proposed here by the Applicant, and 12 agreed to by Fish and Game, you think the better 13 approach is the Granite Reliable. 14 DR. KENT: No. I think we've probably 15 gotten smarter since then. And I think in a perfect 16 17 world I would tell you what we should do for three years is breeding bird surveys, raptor surveys, 18 19 migrating bird surveys, bat surveys, and the bird and 20 bat mortality surveys. That would give us all the 21 information we need to determine what in fact we're actually having. And the way we structured it in 22 Granite is at the end of that time we all look at it 23 and go, hey, things are fine. We're not wiping out 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	every bird in the area. We're not wiping out every
2	bat in the area. We haven't wiped out the
3	peregrines. The Applicant could go along running its
4	windmills. We don't have to worry about it. Or,
5	jeez, what a mess we're making. Let's figure out
6	some way to mitigate the impact we're having. But
7	the important thing is we can learn from what we did
8	last time. We need to tie the mortality surveys to
9	the other surveys so that we know what percentage of
10	that population we're drawing down, if we are drawing
11	down from it.
12	CHAIRMAN GETZ: Dr. Boisvert.
13	MR. BOISVERT: To add another
14	dimension to this, in addition to my comments about
15	basically sampling adequacy, which is what we're
16	talking about, is three better than one, then we can
17	talk about also who is doing the sampling, you know,
18	hired trained professionals looking at it, their
19	results should be more comparable year to year.
20	However, there's another aspect; and that is, in the
21	real world we're sitting in right now, information
22	from previous projects are brought forward to guide
23	us to current and future projects, which is to say
24	information from Lempster was used to help predict
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1 what might be expected at Groton Wind. And I can fully expect that information from Groton Wind will 2 then be cited in future hearings and in future 3 studies to guide decisions for those future 4 determinations. 5 In listening to public hearings held 6 7 by this Committee, and hearings here in this 8 building, frequent reference was made to what was done in Lempster. We've referred to what was done 9 Lempster, using that as a guide. I say that the 10 avian and bat studies for Groton Wind will be used in 11 reference to other future projects, and I would feel 12 much better if it's on the basis of three years' 13 worth of study than one. The quality of the data 14 will be far higher. Insofar as these renewable wind 15 projects are relatively new to New Hampshire, we have 16 17 rather few in this state compared to other parts of the country, we are probably well advised to be more 18 19 careful at the front in gathering this data because 20 it will be relied upon more heavily in the near 21 future. I think that's a reasonable expectation. 22 And so I see this as an aspect that we need to pay attention to. 23 The Applicant has 40 projects in the 24

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1	United States, as I understand it. We can anticipate
2	they would have more in New Hampshire and in the
3	country. They will be using the data on their own
4	projects. I think we will all be better served if we
5	have higher quality data. The greater number of
6	years and higher quality personnel doing the job
7	not to say the operational staff won't do a good
8	job but the comparability to statistically say
9	with some certainty what the trends are would be much
10	greater with a higher quality collection. So I think
11	that's a consideration we need to hold.
12	CHAIRMAN GETZ: Anyone else?
13	MR. PERRY: Well, I'll just, you know,
14	voice my support for more rigorous post-construction
15	assessments based on the fact that no link has been
16	made between pre and post. I mean, if there was a
17	good link between pre and post, you might be able to
18	live with a little less rigorous. But even the
19	Applicant's expert witness indicated that there was
20	no link. And, again, one year's worth of intensive
21	study and then going to a much less informal really
22	doesn't give you the type of information that you
23	need to make a determination whether what your
24	trends are going to be. And I guess I should be more
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1 familiar with the pre-studies. But only one year of 2 pre-study, or were there multiple years of pre-study? And if it was multiple years of pre-study, why was 3 there multiple years of pre? Why wasn't it only one? 4 If it's good enough for post, why isn't it good 5 enough for pre? 6 7 MR. HARRINGTON: I think the 8 pre-construction was a one-year study in two different seasons, wasn't it? Or multiple years? 9 DR. KENT: Multiple years. Multiple 10 studies, multiple years. 11 12 CHAIRMAN GETZ: Mr. Harrington. MR. HARRINGTON: Mr. Iacopino informs 13 me we don't have -- I know I have not read the 14 document that's cited here in Exhibit 72, the Fish 15 and Game letter dated March 21st. It says the 16 17 Department has agreed to post-construction studies outlined in RII [sic] Avian and Bat Protection Plan, 18 19 the ABPP, protocols and concurs with the information 20 submitted by Iberdrola to the SEC as a memorandum 21 dated December 22nd, 2010. And we don't have that actual Avian and Bat Protection Plan? 22 23 DR. KENT: Yeah. MR. IACOPINO: We have the Avian and 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

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1 Bat Protection Plan. There's a memo dated -- was it the December 20th? 2 MR. HARRINGTON: December 22nd. 3 4 MR. IACOPINO: December 22nd, 2010. The very next exhibit is a Heritage Bureau memo dated 5 that date, and that's Exhibit 72. I believe -- and I 6 7 don't have the transcript reference. But I believe that Ms. Rendall said that that was the memo that 8 they were talking about. But it does not seem to be 9 the memo that -- I mean, it identified species, but 10 that's all it does. 11 CHAIRMAN GETZ: Yeah, I think the 12 Avian Bat and Protection Plan is in Volume 3 of the 13 Application. So we have that. 14 MR. IACOPINO: We had that early on. 15 We had that well before December. 16 17 MR. HARRINGTON: Okay. I'm trying to get the chronology here in my head. We had that well 18 before December. But Fish and Game stated in 19 20 November that they wanted three years' worth of 21 studies, and then there was some meetings I guess 22 that took place in December. As a result of those meetings, Fish and Game decided what was in that 23 Avian and Bat Protection Plan was sufficient to 24

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1	address their concerns. So I guess I'm just hesitant
2	to arbitrarily say, well I mean, they're the
3	experts at this. They negotiated this with the
4	Applicant. As far as I can see, they get, you know,
5	nothing specifically out of it. They have no reason
6	to not do what they think is the right thing to do.
7	And they've concluded that's acceptable. I'm just a
8	little leery about them saying, well, we have the
9	Applicant with Fish and Game. They come up with an
10	agreement that was acceptable to both parties, and
11	then the Committee's going to say, well, yeah, but we
12	don't think that's good enough. We want you to do a
13	bunch more. I mean, I know we've done something like
14	that in the past. I'm just a little leery on this
15	one, not being an expert at all in birds or bats at
16	all. But I don't know. I just think we have to give
17	careful consideration before we're going to do that.
18	If for nothing else, it sends a signal I think to the
19	future: Don't waste your time negotiating with state
20	agencies to try to work these things out in advance
21	because they really don't mean anything when you get
22	to the Committee.
23	CHAIRMAN GETZ: Well, I think some of
24	what you're saying goes to the issue that Mr.

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1 Steltzer raised. And there is a very significant difference -- there are several significant 2 differences between this case and how -- and what 3 Fish and Game's role has been and what the role of 4 other agencies are. Fish and Game took a different 5 position in Lempster than it's done here. 6 We don't 7 really know what the rationale is, and they weren't a 8 party and aren't here to explain that. Fish and Game doesn't issue a permit like DES does. 9 So there's less of a, I guess I would call it a binding effect. 10 But it's still up to us to make a decision. 11 Even with DES, we could require more than they require. 12 We could require more or different or less than Fish 13 and Game proposes. I think we had to have a record 14 and some arguments that, on the one hand, the 15 Applicant is saying we have this really good approach 16 17 now, this Avian and Bat Protection Plan. You know, we take a close look for one year, and if things 18 don't work out so well, we'll take a closer look for 19 20 another year, but we're going to be around for a long 21 time, as opposed to what was done in Granite. And I 22 think the issue of what Mr. -- or Dr. Kent is proposing, well, you really need the three good 23 strong years. We're not held to either one or the 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 I guess we have to make a judgment between other. 2 one or the other, and which position we find most And in fashioning conditions, we could --3 credible. you know, there may be pieces of the Avian and Bat 4 5 Protection Plan that we would want to keep, or there may be pieces of the other we could use from Granite 6 7 Reliable. So I think we have a wide range of 8 latitude in fashioning what the conditions are. But I guess you may be going back to the fundamental 9 question of how much do I defer to the Fish and Game 10 letter. 11 MR. HARRINGTON: Well, specifically in 12 this case, because it wasn't as if Fish and Game --13 came in and said we've looked at this bat plan and we 14 think it's good or acceptable or whatever. But they 15 specifically come in and said we think you need three 16 17 years of post-construction studies. And then they met with the Applicant, reviewed the Applicant's 18 19 program and came up with a conclusion: This is good 20 enough. We don't need three years. We can use their 21 one year, and whatever you want to call the rest of this stuff. So I think it's different from me 22 saying, you know, DES or somebody has issued 23 something and says their plan meets the requirements 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

We look at it and say, well, in this case, 1 of law. maybe we need to go a little higher. This is a 2 situation where an agency said we want the three 3 years. Then they met with the Applicant, looked at 4 the Applicant's program and said, oops, with this 5 program we can change our mind. This is good enough 6 7 that we don't need three years. And that's kind of 8 the part that's got me hung up. 9 CHAIRMAN GETZ: Mr. Iacopino. MR. IACOPINO: Mr. Chairman, if I 10 could point out, it's been pointed out to me that in 11 the record at Exhibit 62, which is Mr. Cherian's 12 third supplemental prefiled testimony, attached to 13 that is a memorandum dated December 22nd from 14 Carol -- to Carol Henderson, John Cantor and Scarlett 15 Philibosian at New Hampshire Fish and Game from 16 17 Kristen Goland. And it does address IRI's commitment to Groton post-construction studies. 18 19 If you are contemplating taking a 20 break to give the reporter a break, this might be a 21 good time to do that, so everybody can find this and maybe look at it and can put everybody on the same 22 page with respect to what you're deliberating. 23 24 CHAIRMAN GETZ: So that's the package $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 filed on December 30th, 2010? MR. IACOPINO: Yes. It was filed --2 It's dated -- it's Edward Cherian's third 3 yes. supplemental prefiled testimony, dated December 30th, 4 2010. And attached to the actual testimony, there 5 are some photographs. And following the photographs 6 7 is a Iberdrola Renewables memorandum. CHAIRMAN GETZ: Okay. Well, I found 8 I think that's probably a good recommendation. 9 it. Does everybody have that? Any questions about it? 10 Well, let's take a brief recess and everybody can 11 take a look at that testimony. Might be helpful for 12 the discussion. Take about 10 minutes. 13 (Whereupon a recess was taken at 3:10 14 p.m. and the hearing resumed at 3:32 p.m.) 15 CHAIRMAN GETZ: Okay. We're back on 16 the record in deliberations. And I think when we 17 broke, counsel directed everyone's attention to the 18 attachment to Mr. Cherian's testimony from 19 20 December 30. So if everybody's had a chance to look 21 at that, Dr. Kent, did you have any comment on that particular document? 22 23 DR. KENT: No. I've seen that 24 document before. Thank you.

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1 CHAIRMAN GETZ: Well, let's just go back then to other discussions. Mr. Steltzer. 2 MR. STELTZER: What I'm trying to sort 3 through as well is just the timeline of when 4 documents were released and kind of the thought 5 6 process. 7 So in Public Counsel's Exhibit 14, we have a copy of the Wind Turbine Guidelines Advisory 8 Committee. That's dated the 4th of March, 2010. And 9 that was largely -- it's my understanding that this 10 document here, PC 14, was largely the document that 11 was used by Fish and Wildlife, U.S. Fish and 12 Wildlife, to put out their draft recommendations in 13 Public Counsel's Exhibit 22, which was released from 14 the Federal Register -- what was that date -- the 15 18th of February, 2011. And then we have the Avian 16 17 and Bat Protection Plan which was released in 2008. So I guess where my head's going with 18 19 this is that certainly I feel like I put a greater 20 sense of weight on the Wind Turbine Guidelines Advisory Committee Recommendation, PC 14. And they 21 certainly have gone through this tiered approach 22 that's similar, though my understanding it's a little 23 different from what U.S. Fish and Wildlife released. 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 But they go through this tiered approach to determine 2 what level of study should be conducted on the site, as opposed to applying a unilateral, you know, time 3 frame for post-construction studies to be done every 4 And I guess it's a little unfortunate that we time. 5 haven't had any sort of testimony provided to us 6 7 about this site and how it would apply to the Wind 8 Turbine Guidelines Advisory Committee on tiers. We certainly had some opinions in March between Public 9 Counsel as they were questioning Mr. Gravel on the 10 U.S. Fish and Wildlife's recommendations from 11 March -- excuse me -- from February in Exhibit PC 22, 12 but not necessarily from PC 14. And it is noted on 13 PC 14, Page 48. That's where it notes the tiered 14 structured and how many years of post-monitoring 15 should occur and whether this project falls 16 underneath the criteria of two or more. You know, it 17 certainly does say more, so you could go more than 18 But it also does start at the minimum of two. 19 that. 20 Whether this is helpful or not -- but that's just 21 kind of what I'm grappling with. I don't feel like I have a firm sense of where this project necessarily 22 falls on this tiered structure from the Wind Turbine 23 Guidelines Advisory Committee. 24

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	78
1	CHAIRMAN GETZ: Remind me of what
2	does that apply to birds, bats, both, more than
3	avian?
4	MR. STELTZER: My understanding is
5	that it does apply to both avian and bats.
6	CHAIRMAN GETZ: Any other discussion?
7	Mr. Perry.
8	MR. PERRY: Well, I'm again looking at
9	the December 22nd memo to folks at Fish and Game from
10	an individual at IRA IRI. And it talks about
11	baseline monitoring is proposed to begin the first
12	year after commercial operations. It will provide a
13	baseline mortality rate that IRA IRI, New
14	Hampshire Fish and Game and the U.S. Fish and
15	Wildlife Service can use to determine whether
16	estimated impact levels for the project are within
17	ranges for northern forested ridgelines.
18	Now, if you're looking at the rate
19	from one year's worth of study to make an estimate,
20	it seems like your range, plus or minus, whatever
21	that estimate is, is going to be fairly large. And
22	the more years you have involved, you should be able
23	to tighten that plus and minus range because your
24	sample size is a little bit higher. And so if the
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1	monitoring information is being used to determine a
2	rate that's then going to be used to make an
3	estimate, it just seems hard for me to fathom using
4	one year versus multiple years in order to be in a
5	better position to defend whether there's an impact
6	or not.
7	A second point that I see in this
8	memo, on that first side it says "to determine
9	whether estimated impact levels for the project are
10	within ranges for northern forested ridge lines."
11	I'm not sure I've heard any ranges presented as
12	testimony, but it may be in testimony somewhere.
13	But on the in the same memo, on the
14	second to the last paragraph it says that, should
15	mortality rates exceed the most current established
16	threshold ranges on northern forested ridge lines
17	and again, I've never heard any mention about what
18	that threshold range would be. So I guess I'm a
19	little confused as to actually what triggers some
20	sort of responding action unless those ranges are
21	known by someone. I mean, it hasn't been actually
22	offered to the Committee as to what those consist of.
23	So, just a little bit of discrepancy in terms being
24	used. In one case it's comparing the findings from
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1 other wind projects that are sited in a similar-type habitat. And then there's some sort of mention of a 2 threshold figure, which means if it exceeds a certain 3 minimum, then it's going to automatically trigger 4 something. And I'm not clear in my mind what that 5 trigger is. 6 7 CHAIRMAN GETZ: Let me, I quess, 8 observe this: In some of these other issues it was kind of clear where I thought the sense of the 9 Committee was going. Here, it seems to be that 10 there's at least two driving thoughts: 11 One is a concern that one year doesn't provide sufficient data 12 to make a judgment; the other is, should we give some 13 weight to Fish and Game because of the position they 14 took and what they're doing. And that seems to be 15 kind of two different ways of approaching the 16 17 decision process. But this all goes to the issue of what's the post-construction mortality studies, how 18 19 those are conducted. I mean, are there other --20 putting that -- can we put that issue aside for one minute, just to -- I want to inquire, are there other 21 concerns under the larger heading of Natural 22 Environment, other areas? I don't know. 23 24 Maybe turn to you first, Dr. Kent, and

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1	give you the opportunity. But seems clearly there's
2	a concern about how the post-construction mortality
3	studies are done and conducted. And we need to make
4	a decision about what kind of condition we would
5	apply. But are there other areas where we're
6	concerned that the project will have an unreasonable
7	adverse effect on the environment, on the natural
8	environment?
9	Mr. Steltzer.
10	MR. STELTZER: I don't believe so, at
11	least from my sense and from my position. But one
12	thing that I am interested in just flushing out a bit
13	more is what happens with the data afterwards. And I
14	think there's a
15	CHAIRMAN GETZ: That's how we
16	construct you mean the post-construction mortality
17	studies and what happens with those?
18	MR. STELTZER: Yes.
19	CHAIRMAN GETZ: Can we hold off on
20	that for a second? Because I want to make sure that
21	we're because there's other issues of effect on
22	habitat, effect on natural species, you know,
23	endangered species, effect on wildlife. I mean, are
24	there other I want to know what I want to try
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1 to get my arms around what's the full universe of things that we need to discuss and decide. 2 Okay. No, it seems like 3 DR. KENT: this was the issue. There are endangered, threatened 4 birds, but we captured it in the discussion of 5 post-construction monitoring. They seem to have 6 taken care of the brook trout. 7 There were no 8 significant impacts to communities. We don't seem like we're going to disrupt the moose and deer 9 populations or any of the other wildlife to any 10 significant amount. This was the central issue. 11 12 CHAIRMAN GETZ: All right. Well, 13 then, Mr. Scott. MR. SCOTT: In the interest of trying 14 to maybe split the baby, for want of a worse analogy, 15 is there a venue here perhaps to have a condition 16 17 whereupon we clarify that, should Fish and Game feel uncomfortable with one year, whether before it starts 18 19 the post-construction surveys or during it, to make 20 it clear they can extend that up to three years, and 21 that way we're kind of putting it on them if they --22 you know, they're the boots in the ground, so to Is there a venue to do that, I wonder? 23 speak. Again, I'm trying to come up with a solution here 24

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1 that we can --CHAIRMAN GETZ: As I understand it, 2 they are supportive now of the approach that's under 3 the -- that's one year. But depending on what the 4 5 results are in that one year, based on how it compares to some other metric, then you might have a 6 7 second year. So I think, you know, they're 8 supportive of the approach under the Avian and Bat Protection Plan as it is at this point. So I'm not 9 sure that --10 11 It's more I'm just MR. SCOTT: wondering if they feel somewhat of a constraint. 12 And again, if a condition could be that we make it clear 13 to them in a condition that they have the authority 14 to go up to three years, if that would be -- if that 15 would help anybody's concerns I guess would be the 16 17 question. MR. HARRINGTON: Just a clarifying 18 19 question? What we're looking for -- or I guess 20 what's being suggested here then is that we implement this, whatever it is, the avian/bats whatever 21 22 program. 23 The ABPP. CHAIRMAN GETZ: 24 MR. HARRINGTON: Yeah, that's it. But {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

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1 the difference being that instead of doing one year of intensive study, make the intensive study for 2 three years and then continue with the rest of that 3 program, commencing after the third year. 4 CHAIRMAN GETZ: Well, I think that's 5 one possibility. But I'm not sure if that's -- if 6 7 that would encompass all of what Dr. Kent --MR. HARRINGTON: 8 That's what I'm trying to find out. That was kind of a question 9 directed to him. 10 11 DR. KENT: It could be. I'm more interested in the front end of this thing. 12 I'm more focused at the moment on getting the right 13 information early in the process. 14 15 MR. HARRINGTON: Pre-construction? DR. KENT: No, no, no. 16 17 Post-construction. Pre-construction's gone. It's not just the years of the monitoring at a certain 18 19 level. It's understanding -- as Mr. Perry was 20 discussing, having the context. It's really vague 21 what the comparison is. The consultant talked about 22 comparing it to other wind projects in the northeast in forested areas. Well, what are those? 23 I'm not familiar with anything more than Lempster operating 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	right now. Maybe one in Vermont. But I haven't seen
2	the reports. We've never been offered the
3	documentation. We don't know what kind of numbers
4	we're talking about. Are we talking absolute
5	numbers, like 100 birds is a lot, 10 is good? None
6	of that stuff was ever presented to us. So the
7	threshold here that's referred to, that's fundamental
8	to the bat and avian
9	MR. HARRINGTON: That thing.
10	DR. KENT: the ABPP, there's a
11	vital piece of this that's not I don't understand,
12	I'll say. I don't know what we anchor this to. So
13	when I look at any post-construction study, I look at
14	a way to anchor it to something. And to do that, you
15	have to know what the population of birds and bats is
16	that you're drawing from when you have mortality.
17	And if I have 20 bats dead, I don't know whether to
18	worry about that unless I know how many bats are
19	coming through the area or live nearby. Same with
20	birds. And that's missing, in my opinion. Whether
21	we whether Iberdrola wants to continue having
22	their operators go out and check for stuff, you know,
23	honestly that's of less consequence to me, because
24	there's not as much value to that if you can't peg it
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to something. You're not collecting in the same way 1 2 you collect that first year in the proposal. First year is pretty rigorous, the mortality part of the 3 I like what I saw in the Lempster 2010. survey. It 4 was very nicely done. And if you could build a 5 context around that, of how many birds and bats we 6 had around that we were killing, that would be a 7 8 great program. But when you do one year of something 9 fairly rigorous mortality, but you're missing the context, and then the next year you go into -- I 10 mean, I don't know how you make that decision to go 11 12 to the next year and just have operators go out and pick up stuff -- or they're not picking up, actually, 13 just recording it. What does that mean? How do you 14 make any decisions about your impacts? It makes no 15 sense. Did I answer your question at all? 16 17 MR. HARRINGTON: Yes. CHAIRMAN GETZ: Dr. Boisvert. 18 19 MR. BOISVERT: If I could respond to 20 Mr. Scott's comment. I think his proposal, while it's somewhat appealing, still leaves an awful lot of 21 ambiguity. You get into just what is the trigger and 22 so forth. And I think some sense of certainty is 23 24 more desirable.

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1 The other thing is that Fish and Game, you know, for whatever reason, modified their position from 2 three years to one. But it's not as though they 3 would be opposed to three years. They just agreed as 4 part of a package of other things to go to one. 5 And I spoke earlier about the issues of sampling and so 6 7 forth. This is what I do for a profession. I've done it for a long time. But I've also been involved 8 in environmental review and compliance at a fairly 9 high level. And it's axiomatic that the floor of 10 acceptability to the reviewer is the ceiling of the 11 containment for the Applicant. They're not going to 12 do any more than they need to, than they have to. 13 That's just the way it works. 14

So I think we need to understand that as well. 15 And, you know, it's in their interest to limit the 16 amount that's done because of the cost. 17 We understand that. But I still come back to the far 18 19 more appropriate and useful for the three years. In 20 their own memo of December 22nd, they're referring 21 back to the protocols would be similar to those used 22 at Lempster Wind Farm. So the issue of establishing some track record that would be used in the future I 23 think is relevant. And that doesn't mean that it 24

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1	couldn't be changed down to two years or one year for
2	a future subcommittee looking at other renewables
3	like this. But it does give us something to work
4	from to speak from a position of informed knowledge.
5	CHAIRMAN GETZ: Any other comments?
6	Mr. Steltzer.
7	MR. STELTZER: Just throw out another
8	potential. I don't know. A little different
9	direction on a condition that the Committee could
10	consider is that the Committee could require that the
11	Applicant work with Fish and Game to go through the
12	tier structure that has been outlined in the Wind
13	Turbine Guidelines Advisory Committee in PC 14 and
14	come to a determination on how many years of
15	post-construction work should be done. Because what
16	I do like about the Wind Turbine Guidelines Advisory
17	Committee is that they are basing it site per site on
18	what the effect might be. And so they're taking in
19	site conditions and not just requiring a unilateral
20	three years, no matter what the conditions are of the
21	site, just so we can get the data to see what's
22	actually happening there. And it's a little more
23	customized based off of the existing conditions that
24	are there.

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1 CHAIRMAN GETZ: Well, I guess, structurally, I have this concern about if we're 2 going to delegate something or have a second step 3 that gives some authority to Fish and Game, that we 4 need to feel comfortable that it's something they 5 want to exercise, you know, especially if the 6 7 majority of the Committee has a concern about 8 whether what they would want to do is what is consistent with what the Committee feels is 9 necessary. So I think that's -- which gets back to 10 that fundamental question we've been addressing, 11 which is whether to give weight to their assent or to 12 require something more hard and fast in the 13 condition. 14 How about if I just ask this question, 15 not as a vote or anything, but just to try to get a 16 17 sense of the Committee: I mean, how many members are persuaded that there needs to be more than one full 18 19 year of post-construction studies, similar to what 20 has been conducted at Lempster? If folks could just 21 raise their hands to try and get an idea of how many would require more than one year. 22 (Multiple members raise hands.) 23 CHAIRMAN GETZ: Well, seems like 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

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1 that's a pretty strong consensus then. It's something more than what the Applicant is proposing 2 and what Fish and Game has found is minimally 3 reasonable. So I guess we need to go from there. 4 5 I guess I'd have to turn back to you I mean, do you have a motion, a 6 then, Dr. Kent. 7 specific motion, I guess in general, with respect to a position we should take on whether there's an 8 unreasonable adverse effect, and then linking that to 9 a condition with respect to, you know, 10 post-construction studies? 11 DR. KENT: Yes, I could at least give 12 you an outline for one if you'd like it. 13 14 CHAIRMAN GETZ: Okay. An outline? DR. KENT: This would be my motion, if 15 we're done discussing. Are we done discussing? 16 17 CHAIRMAN GETZ: Well, there's plenty of time for discussion. I guess we need to know what 18 19 you're proposing. When I say "plenty of time for discussing," subject to -- I think we intend to close 20 by 5:00 today and resume at 9:00 tomorrow. 21 22 DR. KENT: For the purpose of determining impacts or lack of impacts from this 23 project to birds and bats, what I would propose is a 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 breeding bird survey three years post-construction, 2 replicating the techniques used by Stantec during pre-construction, with the involvement of Fish and 3 Game, and Fish and Wildlife Service; diurnal raptor 4 surveys, spring and fall, for three years, 5 replicating the 2009 Stantec survey; summer and early 6 7 fall peregrine falcon surveys in the first 8 post-construction year; nocturnal migrating bird surveys three years post-construction, spring and 9 fall; bat surveys, consisting of acoustic surveys, 10 three years post-construction, in the original four 11 acoustic survey sites that were used, summer and 12 fall, to characterize resident and migratory 13 populations; bird and bat mortality surveys three 14 years post-construction, replicate or improve on the 15 study design used by West, Incorporated at Lempster 16 17 in the 2010 work; two bird and bat mortality surveys should be scheduled to temporally coincide with the 18 19 breeding bird surveys, diurnal raptor surveys, the 20 nocturnal migrating bird surveys and bat surveys, to 21 the extent possible to allow comparison; and then a discussion with -- an annual discussion with Fish and 22 Game, and Fish and Wildlife Service, starting with an 23 annual report about how things are going, whether to 24 $\{\text{SEC 2010-01}\}$ [DAY 1 - AFTERNOON SESSION ONLY] $\{04-07-11\}$

1proceed as it is or we seem to have our answers, and2also providing a venue for talking about any3mitigative measures that be necessary. And this last4point, honestly, I'm indifferent. The Applicant can5continue the operational monitoring as described in6Iberdrola's bird and bat protection plan for the life7of the operation if they so choose.8CHAIRMAN GETZ: Well, let me ask this:9Clearly, there's a difference, a time difference,10rather than one year to three years. But are there11categorical differences? I mean, what are the12categorical differences meaning, are there some13things in your list that are not included, such as14the diurnal raptors or what was the if you15could lay that out, that would be helpful.16DR. KENT: Yeah. I'm just checking to17see. Fish and Game asked for something that they18(Pause in proceedings)19DR. KENT: Yeah. Iberdrola starts20with mortality surveys. They were going to which21they both have. Theirs were going to be one year.22But I think we're pretty much on the same page when23it comes to methods. They were also going to commit		
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8 CHAIRMAN GETZ: Well, let me ask this: 9 Clearly, there's a difference, a time difference, 10 rather than one year to three years. But are there 11 categorical differences? I mean, what are the 12 categorical differences meaning, are there some 13 things in your list that are not included, such as 14 the diurnal raptors or what was the if you 15 could lay that out, that would be helpful. 16 DR. KENT: Yeah. I'm just checking to 17 see. Fish and Game asked for something that they 18 (Pause in proceedings) 19 DR. KENT: Yeah. Iberdrola starts 20 with mortality surveys. They were going to which 21 they both have. Theirs were going to be one year. 22 But I think we're pretty much on the same page when	6	Iberdrola's bird and bat protection plan for the life
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23 it comes to methods. They were also going to commit	22	But I think we're pretty much on the same page when
	23	it comes to methods. They were also going to commit
to a bat acoustic detection monitoring during the	24	to a bat acoustic detection monitoring during the
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1 first year, and I'm suggesting three years. The different items, as you referred 2 to them, the additional items are breeding bird 3 surveys, the diurnal raptor survey, nocturnal 4 migrating bird surveys. And the purpose of those is 5 so that we can have a context to evaluate the 6 7 mortality study results. Without those surveys, we 8 simply don't know what it means when we find dead stuff. 9 CHAIRMAN GETZ: So then, what's 10 actually different, in terms of what the field people 11 pick up when they go out to do their surveys? 12 Ι mean, how -- I'm trying to get a feel for what's 13 different and what more is required, what more is 14 done. 15 DR. KENT: For the breeding bird 16 17 survey, they're out there watching with binoculars; for diurnal raptor survey, binoculars; nocturnal 18 migrating bird surveys, they're using radars. All of 19 20 the stuff they did pre-construction, all part of the 21 pre-construction work. 22 CHAIRMAN GETZ: Okay. So none of that, really, in terms of methodology, is different. 23 No. DR. KENT: Most of their 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

[DELIBERATIONS]

1	pre-construction stuff, their methods were pretty
2	good. We just start to fall down when we start to
3	make interpretations and extrapolations to mean
4	CHAIRMAN GETZ: And then the mortality
5	studies are essentially the same.
6	DR. KENT: Same, for 2010. I haven't
7	seen the 2009, but I'm sure that's I would be
8	stunned if it wasn't the same as the 2010. But it
9	was a nice piece of work.
10	MR. HARRINGTON: Question.
11	CHAIRMAN GETZ: Mr. Harrington.
12	MR. HARRINGTON: So I'm looking back
13	at the letter from Fish and Game to Mr. Iacopino on
14	November 5th. And it goes over there and says, Given
15	all these concerns, measures to thoroughly and
16	accurately document the effect of Groton Wind Energy
17	on bat activity
18	(Court Reporter interjects.)
19	MR. HARRINGTON: In the event that the
20	project is approved, the Department suggests the
21	following continuation of bat of monitoring bat
22	activity, as well as the addition of documenting wind
23	energy-related bat mortality. Observing these
24	suggestions will advance information for the causes
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1 for and reduction of bat mortality. And it says --I'm not going to read this whole thing. 2 It says, I, recommended survey 3 activities, and then there's three bullets under 4 that; recommended mortality surveys, and there's two 5 bullets under that. And then it goes on to say that 6 7 this should be conducted for three years, the 8 mortality one. 9 You're suggesting that something beyond what's in this original November 5th memo, if 10 I'm reading correctly. 11 DR. KENT: I have to find the 12 November 5th. So hold on. Sorry. Exhibit number? 13 14 MR. IACOPINO: What exhibit? MR. HARRINGTON: Yeah, it's Exhibit 15 No. 50. I guess Applicant's 50. 16 17 MR. IACOPINO: Applicant's. DR. KENT: Yeah. 18 19 MR. HARRINGTON: I just want to -- I'm 20 trying to determine if it's just the difference 21 between they originally said three years and now 22 they're going along with one. But do you feel as though, even if we went with their original 23 recommendation for the three years for these 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 activities, that that still wouldn't be sufficient? Three is what I recommended 2 DR. KENT: 3 here. 4 MR. HARRINGTON: Right. But it seems 5 like, at least the terms I'm hearing, appear to be different than the terms in here. I'm not, like I 6 7 say, not that knowledgeable. So I'm just trying to 8 determine if you're saying that you're recommending some different types of surveys going forward that 9 Fish and Game didn't recommend in the November 5th 10 11 memo. DR. KENT: We've both recommended 12 acoustic surveys for bats. 13 14 MR. HARRINGTON: You're on Section I? 15 DR. KENT: One. Right. MR. HARRINGTON: I guess that's I 16 17 little one. DR. KENT: Ii. 18 19 MR. HARRINGTON: Aye-aye, Captain. 20 DR. KENT: In the mortality survey 21 they talk about -- they weren't specific as to years, 22 it looks like. It just says "multiple." 23 MR. HARRINGTON: And you're in section? 24

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1 DR. KENT: II(i) -- II(ii) -- II(i),2 rather. Sorry. Implementation of post-construction mortality surveys should be conducted over multiple 3 4 Doesn't say how long. years. 5 MR. IACOPINO: There might be a 6 subsequent... 7 MR. HARRINGTON: But you were talking 8 about breeding surveys or something as well, which I don't see here. 9 DR. KENT: The Department found 10 No. 11 the avian studies satisfactorily complied with the survey recommendations. It says the Department does 12 recommend that the Applicant implement a 13 14 post-construction bird mortality study. The study should be conducted for three years. So we're on the 15 same page on that one. 16 17 MR. HARRINGTON: But are there differences having to do with -- I thought you 18 19 said -- it sounded like yours, when you read yours, 20 there was a lot more studies being done --21 DR. KENT: Yes. 22 MR. HARRINGTON: -- than I'm seeing 23 here. 24 DR. KENT: Again, this is your $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 question. So, breeding bird surveys I'm 2 recommending. MR. HARRINGTON: Which is different. 3 DR. KENT: Different. 4 5 MR. HARRINGTON: Okay. DR. KENT: Diurnal raptor surveys, 6 7 different. Nocturnal migrating bird surveys, different. And I do on the bat. And the 8 difference -- the reason I'm recommending the 9 additional stuff is because without it you have no 10 context for evaluating the mortality studies, except 11 for the acoustics. Acoustics you can match up with 12 the bats, but you won't be able to make any 13 14 comparisons between mortality data, breeding birds, raptors or nocturnal migrating birds. 15 MR. BOISVERT: If I could interject. 16 Are you suggesting they count living birds and the 17 dead birds so that they can compare the number and 18 see how many of the living birds died, in a very 19 20 simplistic --21 DR. KENT: In a very simplistic way, 22 yes. 23 MR. BOISVERT: Otherwise, you know 24 just how many dead ones you've got, but you don't {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 know how many live ones are out there to get dead, to 2 put it in a very simplistic -- that's what you mean by "context." 3 DR. KENT: Right. I'm maintaining 4 that you cannot determine the significance of 5 mortality without knowing, in a very simplistic 6 7 sense, the percentage of birds or bats you've killed 8 out of the population. 9 MR. STELTZER: Dr. Kent, are you suggesting those additional studies, such as the 10 diurnal raptor, the breeding bird survey, nocturnal 11 12 migratory bird survey, to be done for -- to be done because you don't feel that the current surveys that 13 have been done have adequately determined what the 14 baseline is? 15 DR. KENT: Because we don't have 16 17 turbines up, we don't know what the effect is. And we've heard testimony that they can't make a 18 correlation between the number of birds they see now 19 and what they can expect to be killed later. 20 So 21 there's no way to truly project. 22 MR. STELTZER: I quess what I'm getting confused with -- and it's my understanding 23 that the diurnal raptor study, the breeding bird 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	survey and the nocturnal migratory bird surveys would
2	not look at mortality issues, but they would just do
3	an assessment of what is there in the population, and
4	then it's this post-construction mortality study that
5	would look at the deaths.
6	DR. KENT: Right.
7	MR. STELTZER: And so I'm trying to
8	understand what your position is on why these
9	additional studies need to be done. Have they been
10	done already to it seems like that's what
11	Mr. Gravel presented already, is a little bit of a
12	sense of what is within the population to create that
13	bat baseline, so they can do the mortality study.
14	And why these additional studies would be needed
15	and the reason might be because, you know, you feel
16	that the current surveys that have been done don't
17	provide an adequate baseline level?
18	DR. KENT: You would have to presume
19	that the years the studies done years in advance
20	indicating the particular population of birds
21	breeding there or the particular number of raptors
22	flying over or the particular number of nocturnal
23	migrants doesn't change from year to year. And we
24	know that's not true. The number changes all the
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1 So it's important to link up those years. time. So 2 if we have mortality -- let's say we do a three-year study post-construction and we see the number of bird 3 deaths drop. There could be a couple reasons for 4 It could be the birds got smart and avoided 5 that. the towers, or it could be we wiped out every bird in 6 7 the area and there's nothing left to kill. But we don't know that without those two different kinds of 8 information: What's living there now and what's 9 being killed. 10 11 MR. HARRINGTON: Question. Dr. Kent, basically is what you're doing -- I'm going to read 12 from a summary of what Mr. Iacopino put together for 13 Public Counsel. It says, Therefore, the Counsel for 14 the Public requests the Subcommittee impose the same 15 conditions that were imposed upon Granite Reliable as 16 17 applied to post-construction bird and bat mortality studies. And it goes on to say post-construction 18 bird and bat mortalities --19 20 (Court Reporter interjects.) 21 MR. HARRINGTON: -- studied for three 22 consecutive years with full report and analysis to be produced after each complete year. In addition, we 23 required Granite -- and this was what we did with 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

[DELIBERATIONS]

1	Granite Reliable to conduct post-construction
2	breeding bird surveys which had to be reviewed and
3	approved by New Hampshire Fish and Game, and to
4	replicate the pre-construction surveys for the site.
5	So, is this basically what you're
6	saying? Just take what we did for Granite Reliable
7	and impose the same conditions on here?
8	DR. KENT: No. I'm saying we've
9	gotten smarter even since Granite Reliable. Well, I
10	don't say "we." I think we've gotten a little
11	smarter about this. I'll acknowledge that Granite
12	Reliable was the first wind project I dealt with in
13	New Hampshire, trying to piece together what we
14	needed to know for a decision. We also had that
15	project confounded a little bit with the mitigation
16	agreement between the Applicant, AMC, and Fish and
17	Game. So there was a little relief there in knowing
18	we had property, money to buy more property to
19	maintain populations. In this one, we don't.
20	In Granite Reliable, we were smart
21	enough to realize mortality surveys needed breeding
22	bird surveys to try to put the picture together. And
23	for whatever reason, in this project I was more aware
24	of the raptors. And we have peregrines. And
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[DELIBERATIONS]

1 nocturnal birds seem to be more forward. But honestly, I don't remember why we weren't smart 2 enough with Granite to talk about all these issues. 3 4 MR. HARRINGTON: I guess this is thin ice for me when I go out on this thing. But seems to 5 be more a legal issue. Maybe one of the lawyers can 6 7 step in on this. But we have to base what we do on 8 the record, I understand, that was presented to us. And we have a number of experts that presented 9 options here. But it sounds as if what you're 10 proposing is to go beyond not only what Fish and Game 11 has stated in their letters, but beyond what the 12 experts from the Applicant stated, but also beyond 13 what the guy with the -- what's his name --14 CHAIRMAN GETZ: Mr. Lloyd-Evans. 15 MR. HARRINGTON: -- Lloyd-Evans 16 17 presented, and then, as requested by the Public Counsel, impose post-construction surveys for three 18 19 years, as recommended by Public Counsel's expert 20 witness, and then post-construction surveys overseen 21 by Audubon-hired avian company for three years. 22 If you're proposing to go beyond that, how -- what are we using for the basis of doing that, 23 since the expert testimony we saw didn't seem to have 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 gone that far? DR. KENT: Yeah, I think it did for 2 I don't remember how much he 3 Trevor Lloyd-Evans. said on this case. Certainly when we talked to him 4 in Granite Reliable, he was pushing for a lot more 5 than we got into the record. He was in agreement --6 7 well, I don't want to speak for him. But he was 8 pushing for the same type of work I'm talking about and suggesting to the Committee right now. The Fish 9 and Wildlife Service and that committee that's 10 produced a couple of recent documents is synchronous 11 with what I'm suggesting. I admit that Fish and Game 12 has not gone as far. I will readily admit that the 13 consultant has not. But I heartily -- while I 14 recognize the consultant's expertise, and I commend 15 them for their field work, again, I draw the line at 16 17 deferring to their expertise in extrapolating and interpreting information. 18 19 CHAIRMAN GETZ: Well, let me just try 20 to address this issue. I think in terms of what Mr. 21 Harrington's talking about, what are the constraints on the conditions we can impose? The statute says a 22 certificate of site and facility may contain such 23 reasonable terms and conditions as the committee 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

deems necessary, and may provide for such reasonable 1 2 monitoring procedures as may be necessary. When we're making a factual conclusion 3 from the record based on testimony by witnesses as to 4 whether some thing did or didn't occur, or may or may 5 not occur, I think you're constrained to the evidence 6 in the record. And in this case, I think what we're 7 8 talking about here is a concern that there will be -without some significant conditions with respect to 9 post-construction surveys and mortality studies, 10 there's the prospect of unreasonable adverse effects. 11 So I think we're probably all in the same boat in 12 terms of looking through that factual issue. 13 And now it's a question of what are the conditions that are 14 necessary -- that we deem necessary to address the 15 factual issues. So I don't think we're constrained 16 17 by the particular conditions that have been raised. We can pick and choose among three different sources, 18 19 whether it's the Applicant, Mr. Lloyd-Evans, the 20 witness for Public Counsel, the Fish and Game, and/or 21 some combination of things drawn from the record that appear sensible to us. So I don't think we're 22 constrained in the way we fashion the conditions is 23 24 the bottom line.

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1 MR. HARRINGTON: All right. That's 2 helpful. Thank you. CHAIRMAN GETZ: Mr. Steltzer. 3 MR. STELTZER: For me, I think of it 4 5 from a risk assessment standpoint. You know, if we have a high risk here because of a lot of unknowns, 6 7 then it might make sense to do as much studying as 8 feasibly possible to really assess the situation. But my sense is that, from the testimony that's been 9 provided and the data that's been provided, it's that 10 it's a relatively low risk, and the level of study 11 that's being suggested doesn't meet the risk that the 12 project may have. And so the level of assessment and 13 study should meet that lower level. It seems like 14 some of the suggestions of doing the additional 15 population studies on this one project, you know, 16 doesn't take into the account the numerous literature 17 reviews that are out there about the impacts of avian 18 19 species and bats with turbines. 20 CHAIRMAN GETZ: Let's go back to this 21 issue then and maybe get to the factual issue. 22 I mean, I think you're concluding that the risk may not be commensurate. The risk -- and I 23 guess what's important there is where you're drawing 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	that conclusion from. And then, if you're talking
2	about studies out there, are you talking about
3	studies out there that have been introduced in this
4	proceeding, or studies that are out there that
5	haven't been produced in this proceeding? Because I
6	don't think we can rely on other issues or other
7	studies that haven't been introduced here.
8	MR. STELTZER: Well, I think we can
9	certainly look at the guidelines put out by the
10	advisory committee in PC 14. That helped to factor
11	in determining a site and what sort of risk level it
12	is and then matching the study, the post-construction
13	study to meet that risk at that individual site.
14	CHAIRMAN GETZ: Okay. I just want to
15	be clear for the record what you were referring to.
16	Sorry for the interruption.
17	MR. STELTZER: That's all right. No,
18	that's really what I'm coming to and where I'm
19	leaning on my determination here, is based off of
20	that it's that level of study that's being suggested
21	by Dr. Kent. To me, it just feels like that doesn't
22	meet the risk of this project at this particular
23	site.
24	DR. KENT: Do I get to ask I can

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1 ask back, right? So what is the basis for determining 2 the risk for this project? 3 MR. STELTZER: Well, that's actually 4 why I even threw out the idea of having this project 5 go through the tiered assessment to determine where 6 7 that risk actually is. And I recognize the Chair has 8 some concerns, and rightfully so -- has some concerns about putting that out to another organization who 9 might not even be interested in doing that risk 10 assessment. So I think we just need to do our own 11 judgment based off of what's been provided in the 12 data and the record on what that level of risk is. 13 So I do put some -- going to Mr. 14 Harrington's point, too, you know, the two 15 professionals that have been here and two expert 16 17 witnesses, being Mr. Lloyd-Evans and Mr. Gravel, it appears that it's somewhere in between those two that 18 we need to look at. And where I see the conversation 19 20 being more focused on is really the mortality study and how many years that post-construction mortality 21 study should go, where Mr. Lloyd-Evans is suggesting 22 three years versus Mr. Gravel which is suggesting one 23 And maybe it's two. You know, that's what is 24 year. $\{\text{SEC 2010-01}\}$ [DAY 1 - AFTERNOON SESSION ONLY] $\{04-07-11\}$

1 in line with what's being proposed in Exhibit PC 14 2 as well. DR. KENT: For low risk. 3 MR. STELTZER: I believe that was 4 5 projects that did not meet low risk, actually, even, that it was two years or more. So, two years. 6 7 DR. KENT: So my question to you is, 8 you're concluding that this project has low risk to birds and bats? 9 MR. STELTZER: Based off of the inputs 10 that have been provided, I do feel that it might not 11 be at the same heightened level that would warrant 12 the additional studies that you're recommending. 13 14 DR. KENT: Okay. Can I make an argument? 15 16 MR. STELTZER: Sure. 17 DR. KENT: Can I make an argument? CHAIRMAN GETZ: Yes, but let me -- I 18 19 want to make sure I understand the context in which 20 these arguments are going to be made so it might be 21 helpful to me in trying to come to some kind of 22 conclusion about this. 23 Getting back to some very basic Sometimes I think I'm having difficulty 24 things. {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

keeping track of the post-construction mortality 1 2 studies versus the post-construction surveys. And I think there's going to be at least one year of 3 mortality studies. And then you have to decide, 4 based on the mortality studies, whether you have 5 other surveys of the populations to compare those to, 6 7 which I think is what, Dr. Kent, you're proposing, as 8 opposed to what the Applicant is saying, that you do your mortality studies, and then you compare it to 9 some results that have occurred elsewhere. 10 Is that --11 DR. KENT: That's not what I'm 12 proposing. That's what Mr. Gravel is proposing as 13 his standard is comparison to other wind projects. 14 CHAIRMAN GETZ: So you want studies 15 here, mortality studies here that are compared to 16 17 surveys that are performed here. And I'm not sure where you are on that 18 19 issue, Mr. Steltzer, in terms of where the -- 'cause 20 there's two -- there seems to be at least two moving 21 parts: There's the length of the studies, the mortality studies, and then what they're compared to 22 in terms of some generic metrics that are imported 23 from elsewhere, or actual results of surveys that are 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

conducted in this area. Am I framing this correctly? 1 2 DR. KENT: Yeah. CHAIRMAN GETZ: Okay. And do you 3 4 have --MR. STELTZER: And I think my leaning 5 on that is that they should be -- is along the lines 6 7 of Mr. Gravel, is that there are a number of other studies out there about the impacts of birds and bats 8 with turbines, and to use those existing studies to 9 make the assessment on this project, as opposed to 10 requiring -- you know, setting a precedent to require 11 that each individual project, wind turbine project 12 that comes forward, has to do it individualistically 13 for their own area and determine that effect on its 14 population. 15 CHAIRMAN GETZ: And I thought earlier 16 17 that you were inclined toward -- so were you inclined toward a longer period of mortality studies, but you 18 19 would compare those studies then to the more generic 20 metrics rather than doing individualized surveys 21 here? 22 MR. STELTZER: Correct. And as far as the time frame on those post-construction mortality 23 studies, in my mind, it's more on the two-year line 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

rather than a three-year line. 1 2 CHAIRMAN GETZ: Dr. Kent. DR. KENT: I want to make sure I'm 3 catching up with you. Those other studies -- have 4 you seen those studies? Were they offered at 5 testimony? 6 7 MR. STELTZER: Not that I'm aware of, 8 no. But I guess -- and I need to look at the record, as far as Mr. Gravel. But I would certainly suggest 9 that we -- to my understanding from listening to his 10 testimony is that there are existing resources out 11 there that we can be basing it off of, as opposed to 12 doing it on this specific project itself. 13 DR. KENT: Yes, there are a lot of 14 resources out there. And they're all over the map, 15 as you might imagine. And they differ from the West 16 17 to the Midwest, to the Southeast, to the Atlantics. They're so different from place to place, project to 18 19 project. So the question is: What ones are we using 20 for comparison, and how do we know that that constitutes no adverse impact? None of that was 21 proffered to us during testimony. 22 Instead, we have there's a bunch of stuff out there we'll compare to 23 it, and if it looks like it's normal, then we're 24

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But we don't know what "normal" is. We don't 1 qood. 2 know what the basis for the comparison is because we don't know what projects we're comparing to. We 3 don't even know how many -- if there's enough 4 projects in the forested northeast to compare it to 5 yet that have data. None of that was offered to us. 6 7 There's no basis for making a comparison that's been offered to us. It's all blind. 8 9 MR. STELTZER: Which goes to one of my points that I was attempting to bring up, too, as far 10 as having a central repository for some of this data 11 that would be -- I don't know what we can do within 12 this docket and proceeding to assist in that creation 13 of gathering and focusing that data to one place, so 14 that future projects won't continue to go through 15 this discussion that we're having here, but they can 16 17 go and say it's at U.S. Fish and Wildlife Service. That's where the data is for the Northeast. 18 Here's 19 where you can go. 20 DR. KENT: Right. It doesn't exist yet, unfortunately. We've been urging them to get it 21 together so we can look at cumulative impacts. 22 But we're working without it, and that's one of the 23 reasons when we did Granite that we pushed for 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	something a little more rigorous. And that's the
2	reason I'm being a pain today, is that we be a little
3	more rigorous and we generate some data so that we
4	don't have to make this up every time, because it's
5	really frustrating. I mean, somebody saying don't
6	worry about it, we'll compare it to something out
7	there, you know, and if it's okay, we'll go forward
8	and no big deal, instead of having that information
9	we need in front of us to make an independent
10	decision about whether that will have an adverse
11	impact or non-adverse impact.
12	CHAIRMAN GETZ: Mr. Hood.
13	MR. HOOD: I have just a question.
14	When we did Granite Reliable and then did Lempster,
15	what did we think when they did their mortality
16	studies, whether it was three years or one year?
17	What were they going to compare those mortality
18	levels to, to make a decision on whether the turbine
19	should be shut down or time of year. And you
20	mentioned some kill levels at Lempster, but now
21	that's gone forward. Are they still going to have to
22	make any changes in the way the turbines are acting?
23	So what did they compare those avian and bat kills
24	to, to decide that they could go forward? Was there
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1	something put into those studies that said you'll do
2	your mortality studies and compare it to something,
3	and then if there's a problem you've got to shut it
4	down? They've done mortality studies, but they're
5	still going. So what were those? I was fully
6	thinking one year or two was fine. And then, come to
7	find out, the established ranges that Mr. Perry
8	talked about apparently aren't very reliable, or
9	they're not there, I guess.
10	So I'm kind of agreeing with what
11	you're saying. I think if we do need that data if
12	the numbers that we're going to compare it to
13	there aren't any numbers to compare it to I'm not
14	sure I'm making myself clear. But how can Lempster
15	still be going forward with the kill numbers if they
16	didn't have something to compare to that was in that
17	finding of that particular project?
18	DR. KENT: Lempster is going to
19	compare it to something that's unknown to us. And
20	hopefully, Fish and Game and Fish and Wildlife
21	Service would be involved in those continued
22	discussions. That's the way it was supposed to work.
23	But still, even Lempster is blind on what's the
24	threshold and what's it relate to, where they're
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comparing just like it was proposed to us by 1 Mr. Gravel, where it's, well, we'll look at other 2 similar projects and see if it's no worse and go from 3 4 there. 5 MR. HOOD: They probably haven't done 6 that yet. 7 DR. KENT: Right. And my point right 8 at the beginning, seems like days ago at this point, was that that's not really an appropriate standard, 9 because that assumes the average is good, there's no 10 adverse impact. But we don't know that until you 11 make an independent, rigorous study to determine what 12 kind of impact we're having. We're still going to be 13 stuck with is 20 percent of the local population 14 being killed significant or not significant. 15 And we'll have to build in discussions with the agencies, 16 because at some point somebody's going to have to 17 make a call. But at least we'll have some sense of 18 19 context here, rather than just comparing it to 20 another wind project. I should find an analogy from 21 everyday life to make it clear. 22 MR. HOOD: I think it's clear to me. I just -- what isn't clear to me is what we were 23 basing those previous mortality studies on, what we 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

were going to compare to, to determine if you were 1 going to shut down some turbines or do time-of-year 2 restrictions. It doesn't seem -- I thought there was 3 something in those, and now you're saying, which is 4 probably true, there really isn't any good numbers 5 they can compare to. So those studies aren't going 6 7 to be worth anything, because they've done some 8 studies and they're going on and not making any changes. And that's why I think we need to do more 9 studies now. You're right. We have to do more 10 studies to make it -- to determine whether 40 birds 11 12 and 60 bats, or whatever it was for one year, is out of 5,000 bats, and so it's not a big deal, or -- I 13 just didn't know those previous studies, those 14 previous projects -- I assumed there was some number 15 that those mortality rates were going to be compared 16 17 to. You're kind of saying there really isn't. DR. KENT: This is an evolving process 18 19 not just for us but for the whole country. Fish and 20 Wildlife Service is just trying to catch up. There's 21 all kinds of work groups going. 22 CHAIRMAN GETZ: Let me see if I can answer some of the questions he had about what 23 happened elsewhere, because I think in Lempster there 24

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1 was a condition that approved the creation of, under 2 the heading of Avian Species Protection, a technical committee that looked at these issues. And so there 3 was like a process that was approved to address 4 survey results and post-construction mortality 5 surveys. And then it would meet, and there would be 6 7 reports and there could be a recommendation for additional investigation. So it was more of a --8 rather than a -- I guess I would characterize this --9 and please feel free to correct me, Mr. Iacopino --10 as responding by creating a process to address these 11 12 issues. And it was brought together by a number of the parties to that proceeding, which is different 13 from the way -- so the actual conditions in the order 14 don't go into detail about the length and type of 15 studies and surveys; whereas in Granite Ridge [sic] 16 17 there was more of a focus on creating in the conditions in the order what would be required of the 18 Applicant and how to do it. And I think now is kind 19 20 of, you know, another evolution of that, to create -or at least it seems to be heading down the path of a 21 motion to create some more -- or some broader survey 22 conditions. 23 24 DR. KENT: That's where I was going.

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I was going to tell that story, too. 1 2 CHAIRMAN GETZ: Oh, sorry. I did come up with an 3 DR. KENT: analogy. If I tell you, you know, in Smithville we 4 had three car fatalities in a year, you go, wow. 5 Then your next question is, well, how many people 6 7 live in Smithville? About 400 million. Well, you go, three's not bad. If you say 30 people, you go, 8 oh, my God. That's what we're trying to get at here. 9 MR. HOOD: Oh, I realize that. 10 I was just thinking that these other studies had that in 11 12 mind, that they had some number that they were going to compare that to, because that's why you said we're 13 going to do a mortality study and be able to maybe 14 make some adjustments in the way the wind farm's 15 operating. I thought there was something in place 16 17 already that you could compare to. And what you're saying is there isn't. So this is the place to 18 19 probably start. 20 DR. KENT: In fairness, the 21 Applicant's consultant believes it's appropriate to compare it to other wind farms. On that point we 22 23 disagree. 24 CHAIRMAN GETZ: Mr. Harrington.

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1 MR. HARRINGTON: Yeah, just on that 2 particular point. It's not just the Applicant's consultant. It's also Public Counsel's consultant, 3 4 Lloyd-Evans. 5 The question was asked: "Are you suggesting that the Applicant develop a benchmark of 6 7 some other measure that establishes what an acceptable level for biologically insignificant 8 impact of this project would be? 9 "ANSWER: I think that would come out 10 of the discussions with New Hampshire Fish and Game 11 or U.S. Fish and Wildlife. To me, that would be a 12 very useful result. 13 "QUESTION: But would you agree or 14 disagree that documented mortality rates at other 15 operational wind projects in the Northeast would 16 17 provide an appropriate benchmark against which to judge the results that occur at the Groton project? 18 I think that's a useful 19 "ANSWER: 20 benchmark, yes." So that's Lloyd-Evans. 21 I mean, I'm trying to get at, Dr. 22 Kent, what you're saying is then you would do these additional post-construction surveys to make the best 23 estimate of the population of the various species in 24 $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1	the area and then use that as a comparison, a
2	benchmark, whatever you want to call it, yard stick
3	to measure the deaths against. So if you do the
4	survey and you estimate that there's 23 peregrine
5	falcons that pass through the area, and 10 of them
6	are found dead, then you're going to then you
7	could make a determination as to whether that was
8	biologically significant or not. Is that kind of
9	where you're headed?
10	DR. KENT: Yes.
11	MR. HARRINGTON: And I guess my
12	question then would be: How possible or how accurate
13	is it to come up with a number like that? I mean, if
14	you do these surveys, is there do you build in
15	some factor into it or whatever? I mean, because
16	unless you're out there 24 hours a day, 7 days a
17	week, I mean, how good are the determination of
18	population from these surveys? I mean, I just don't
19	know. I'm not saying that they couldn't be. I'm
20	just saying I'm not familiar.
21	DR. KENT: Yeah, the point of the
22	survey is to design them in a way that you get a
23	reasonable estimate. And they've done a pretty good
24	job of that pre-construction. They've come up with
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1 reasonable estimates, I believe, of what's passing through and what's there. 2 MR. HARRINGTON: 3 But what you're saying, and then apparently in reading Lloyd-Evans' 4 testimony he agrees with, is that the 5 pre-construction surveys give you a snapshot in time 6 7 of what the population were like then. And since 8 those have been maybe a year or two ago now, and certainly will be even further if and when the 9 windmills get into operation, but they really don't 10 tell you much about the population to use as a 11 baseline during post-construction. 12 DR. KENT: 13 Yes. MR. HARRINGTON: Okay. 14 So maybe draw one more conclusion, which really has not exactly 15 anything to do with this. But why are we wasting our 16 17 time with pre-construction surveys at all then? DR. KENT: Because we're trying to get 18 a sense of how sensitive this area is. So if you 19 20 found a whole bunch of endangered species, you'd 21 probably think twice about messing around up there, unless you had a mitigation plan in mind. 22 MR. HARRINGTON: But you would 23 24 disagree with the two people, then, the statement {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

here, that the mortality rates at operational wind 1 2 projects in the Northeast would provide an appropriate benchmark against which to judge the 3 results that occur at the Groton project? 4 I wouldn't discount them 5 DR. KENT: It's a useful comparison. 6 completely. But it's 7 still a pretty vague comparison. And I think even if 8 I was the Applicant, I would be worried about kind of 9 a loosey-goosey comparison like that. That could come back to haunt me. It's actually better -- if 10 I'm the Applicant, I want to know. Because if 11 something's changed up there, I want to know whether 12 it was me or Mother Nature doing it. I don't want to 13 rely on what happened at somebody else's project or 14 what happened five years ago on my site. You know, 15 all of a sudden I'm in a mitigation dance with, you 16 17 know, the federal agencies. MR. HARRINGTON: And then let's say 18 19 that these surveys were done, and then that would be 20 a collective decision? Because it's still going to 21 come up to -- I mean, if you're looking at some -you estimate the population to be 20. Is two deaths 22 significant? Is four deaths significant? 23 Is six 24 deathly significant? I mean, you would envision at {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 that point that would be collected between New Hampshire Fish and Game and U.S. Wildlife to 2 determine whether it was significant enough to 3 request mitigation, and how would the mitigation --4 would that come back to this Committee? 5 Oh, no. 6 DR. KENT: 7 MR. HARRINGTON: Oh, okay. They would 8 say we need mitigation, and then someone would have the -- someone else would have the authority to say, 9 well, you've got to shut down that particular turbine 10 because it's killing too many whatever, widget birds? 11 DR. KENT: Actually, that's two 12 different questions. I would say -- let me answer 13 the biological. 14 15 You can answer the other one, okay. The agencies can't delegate authority 16 in the determination of whether it's a significant 17 impact or not. You know, they're going to get the 18 19 reports. They're going to have discussions with the 20 Applicant's consultants, or whoever it is, and they'll come to some agreement. The issue of whether 21 22 they come back to this Committee depends on what language we put in the conditions that require them 23 24 to come back.

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1 MR. HARRINGTON: Well, maybe Chairman 2 Getz can -- do they have -- does either of those two groups, the New Hampshire Fish and Game or U.S. Fish 3 and Wildlife, if they determine there was a 4 biologically significant amount of deaths, do they 5 have the authority in themselves to take action to 6 7 mitigate that? Can they tell the wind farm owners 8 they've got to run less or shut down certain turbines or just say you must decrease these deaths by so much 9 each year or something to that effect? 10 CHAIRMAN GETZ: I'm looking at how we 11 wrote the conditions in Granite Reliable, which 12 really talked a lot about how the Applicant worked 13 with New Hampshire Fish and Game, and then, really, 14 the Subcommittee would be a backstop. 15 I'm not sure that the -- I don't know whether Mr. Iacopino 16 17 knows whether there's any independent authority that Fish and Game or Fish and Wildlife Service has on its 18 own to require action on behalf of the Applicant. 19 20 MR. IACOPINO: To the best of my 21 knowledge, without doing any research on it, to the extent it does not involve endangered species, I do 22 not believe that U.S. Fish and Wildlife would have 23 the authority to simply say there's too many 24

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1	unendangered species being killed to require some
2	kind of mitigation, nor do I believe that Fish and
3	Game has any of that type New Hampshire Fish and
4	Game has any of that type of authority either. Of
5	course, I haven't done any research on that issue
6	about those agencies' authority in this context. But
7	I'm not aware of any.
8	MR. HARRINGTON: But they would have
9	the authority to come back under the general
10	provision if they don't think that the certificate is
11	being lived up to or whatever?
12	MR. IACOPINO: Again, that depends on
13	what the condition says, the language of the
14	condition. Under RSA 162-H, the Committee can, in
15	fact, delegate monitoring authority to a state
16	agency. You can also designate the use of any
17	particular type of technique or methodology for the
18	state agency to employ. And, you know, you can
19	fashion conditions around that, around your authority
20	in that section, which I believe is RSA 162-H:4, III
21	and III-a, which permits III permits the
22	delegation of authority to monitor construction
23	operation of a facility. However, you cannot
24	delegate the authority to hold hearings, issue
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1	certificates or determine the terms and conditions of
2	a certificate, or to enforce a certificate.
3	Enforcement falls to the Committee under Section 12.
4	You can also delegate, under III-a to
5	an agency or official any particular technique,
6	methodology, practice or procedure approved by the
7	Committee. So those types of things can be delegated
8	through the use of a condition to a certificate, if
9	that's what the Committee proposes to do.
10	Mr. Chairman, can I address one other
11	issue? I just want to make sure the record's clear.
12	CHAIRMAN GETZ: Sure.
13	MR. IACOPINO: It has nothing to do
14	with what I just discussed. But there was discussion
15	between Mr. Steltzer and Dr. Kent prior about
16	literature in the record. And I just want to point
17	out that at Applicant's Exhibit 1, Tab well, in
18	Applicant's Exhibit 1 there is the prefiled testimony
19	of Adam Gravel. He is from Stantec Consulting, and
20	he testified right here on Page 33 of that
21	prefiled testimony there is, in fact, a literature
22	bibliography that he that's entitled "Literature
23	Cited," and it lists a number of articles that
24	supported his prefiled testimony. I just want that
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1	in the record so that it's clear some of this
2	literature is indeed at least referenced in the
3	record. Although I'm sure we don't have all those
4	articles themselves, they are listed in his
5	bibliography.
6	DR. KENT: Could you point me to those
7	again?
8	MR. IACOPINO: Yeah. Page 33 of his
9	very first prefiled direct testimony, and that was in
10	Volume I of the Application, which is also
11	Applicant's Exhibit 1. And it's the copy that I
12	have in front of me doesn't have any tabs, so I don't
13	believe that in fact it was tabbed. But it's his
14	March 2010 prefiled direct testimony.
15	MR. STELTZER: Mr. Chair, and added on
16	to that, I just took a moment to look a little bit
17	more into the record here and what's available. On
18	Applicant's Exhibit No. 5, which is the supplement to
19	the Application, at Appendix 46 is Paul Kerlinger and
20	John Guarnaccia's assessment of the risk assessment
21	at the Groton Wind project. Towards the end of that
22	there's an 11-page list of references. Certainly
23	haven't gone through all those reference. But there
24	are 11 pages worth of literature reviews that are
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1 noted here as well. And one thing that, coming to the 2 postulation or the idea that what is the risk here at 3 this individual site, the report notes, and I quote: 4 Overall, the project site is not discrete and 5 distinguishable in character or habitat or 6 anthological importance from surrounding areas in 7 8 this part of New England. And so that just kind of adds into what level of risk do we actually have at 9 this individual project. 10 11 CHAIRMAN GETZ: And is that Mr. Gravel's statement, or is that Kerlinger's statement? 12 13 MR. STELTZER: Kerlinger's. CHAIRMAN GETZ: Okay. Well, let me 14 see if I can figure out where we've got agreement. 15 Oh, Mr. Dupee. 16 17 MR. DUPEE: Just a question of order, Mr. Chairman. Was there a second to Dr. Kent's 18 19 motion? 20 CHAIRMAN GETZ: I'm not sure if we 21 ever got an actual motion. I think we got an 22 outline. 23 Right. MR. IACOPINO: So, I don't think --24 CHAIRMAN GETZ: $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

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1	MR. HARRINGTON: I know it was long.
2	CHAIRMAN GETZ: we had a particular
3	motion.
4	MR. DUPEE: Okay. I'm just trying to
5	figure out where we are in the process here.
6	CHAIRMAN GETZ: Is it fair to say that
7	there's agreement that there should be more than one
8	year of post-construction mortality studies? Does
9	anyone disagree with that?
10	(No verbal response)
11	CHAIRMAN GETZ: Then I guess the
12	question is, is it two years or three years? Is
13	there well, Mr. Dupee.
14	MR. DUPEE: Just another question to
15	Dr. Kent.
16	I think when you were making your
17	outline, was the last part of that outline that the
18	continuing annual, ongoing checking would be optional
19	on the part of the Applicant, or did I misunderstand
20	you?
21	DR. KENT: Yeah, I would defer to the
22	Committee on that one. It doesn't it's not
23	important to me. So I would leave it to the
24	Committee to see if somebody thinks it's important.
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1 MR. DUPEE: Okay. So you'll address that in your motion, whether you think it's 2 important, put it in there, or if you think it isn't? 3 I guess that's how it's going to be? 4 5 DR. KENT: What's the tenor of the 6 group? 7 CHAIRMAN GETZ: Well, I quess for --I could leave it out and 8 DR. KENT: 9 let you put it in. 10 MR. DUPEE: I could do that. 11 DR. KENT: Okay. CHAIRMAN GETZ: I'd just note, at 12 least from my perspective, I think there's some value 13 14 in that type of ongoing monitoring that's been proposed over the life of the project as of the Avian 15 and Bat Protection Plan. so... 16 17 MR. DUPEE: Mr. Chairman, just to follow up on that. Most of you are probably aware 18 19 that the bat population in New England has taken some 20 very severe downward swings recently due to a fungal 21 infection. So if we were to go out there and look at 22 bat populations for the next one or two or three years, we could very well lead ourselves astray. 23 If 24 that population was to recover, we're going to see {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 more bats and come to the conclusion that the wind farm is causing a great fatality, when, in fact, 2 there could be other swings out there that we are not 3 being able to detect. So I think having ongoing 4 monitoring is a critical part of any natural system 5 like this with so many natural perturbations. Just a 6 7 comment. 8 CHAIRMAN GETZ: Mr. Scott, did you 9 have something? All right. So is the two -- how many 10 of the members think that two years of mortality 11 studies is sufficient, sufficient in and of itself? 12 (Multiple members raise hands.) 13 CHAIRMAN GETZ: So, then, how many 14 folks think that three years of mortality studies is 15 more appropriate? 16 17 MR. HARRINGTON: Just a question before, because I'm not --18 19 CHAIRMAN GETZ: I'm just trying to get a sense of the --20 21 MR. HARRINGTON: This is a question, 22 not agreement. CHAIRMAN GETZ: I thought it was two 23 and a half. 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 MR. HARRINGTON: Well, there's more to 2 this than just the post-mortality studies, because we're also talking continuation of breeding studies 3 and all this, for lack of a better term. 4 5 CHAIRMAN GETZ: Well, I'm just trying 6 to get --7 MR. HARRINGTON: So are you putting 8 this whole package together and saying 9 post-construction studies of one, two or three years involving the whole package and not just the 10 mortality? 11 12 CHAIRMAN GETZ: What I'm trying to get to is where there's agreement, and to see -- and then 13 to keep going through this kind of piece by piece, 14 going from the part to the whole, to see -- because I 15 have a sense that there's some agreement on a 16 17 lengthier term of mortality studies. And it sounds like what it's breaking down to is what you can 18 19 compare those mortality studies against, whether it's 20 the generalized proposal by Mr. Gravel that you look 21 at what's happening elsewhere in New England versus let's do some very particular studies here to make 22 that comparison. 23 So it sounds like we have -- there's 24

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1	some general, or at least a majority position,
2	perhaps, on there should be three years of mortality
3	studies. Now, it's kind of where do we go in terms
4	of what do we compare that information to, what's the
5	metric. Is it a benchmark that we don't know what it
6	is right now and it's going to develop over time
7	based on what happens elsewhere, or is it going to be
8	developed based on actual surveys of this area? And,
9	of course, Dr. Kent's position is you've really got
10	to take a look at what's happening here. And I think
11	Mr. Steltzer has raised the opposite view, based on
12	what he's seen in the record, that you can fairly
13	look at what's happened elsewhere to make that
14	comparison.
15	MR. HARRINGTON: Just as a follow-up
16	to that, I'd like that's what Mr. Gravel and
17	Mr. Lloyd-Evans both seem to be going along with,
18	this idea that you could look at the mortality at
19	other operational wind projects in the Northeast.
20	Again, Lloyd-Evans: "I think that's a useful
21	benchmark, yes."
22	DR. KENT: Right. And again, you
23	know, nobody should be talking for Trevor. That's
24	only part of a discussion with him. We need to be
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1 careful. Let me put it that way. We need to be careful about interpreting that as the limit of his 2 desire. 3 CHAIRMAN GETZ: Well, I guess what I 4 would propose at this point, and put the onus back on 5 you, Dr. Kent, is to make a motion and see if we get 6 7 a second, and then maybe have some discussion and take a vote. It's hard to tell which way -- I think 8 that's maybe the more appropriate approach at this 9 point. I think we've talked about the issues a lot. 10 I think they're fairly well framed. So let's do it 11 in the -- if you can. 12 I'm almost out of 13 DR. KENT: Yes. voice. 14 CHAIRMAN GETZ: Well, make sure 15 16 that --17 DR. KENT: Yes. CHAIRMAN GETZ: -- the reporter --18 19 DR. KENT: I'm boosting up to the 20 microphone here. 21 For the purpose of allowing this 22 Committee to determine if there's significant adverse impacts from this project, I move --23 24 CHAIRMAN GETZ: Unreasonably adverse. $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 DR. KENT: Unreasonably adverse. 2 Thank you. I move that we require three years of breeding bird surveys post-construction, three years 3 of diurnal raptor surveys post-construction, three 4 5 years of nocturnal migrating bird surveys post-construction, three years of bat surveys 6 7 post-construction, and three years of bird and bat 8 mortality surveys post-construction, all of those in coordination with Fish and Game and the Fish and 9 Wildlife Service, and consistent with work done by 10 this Applicant and his consultants pre-construction. 11 12 CHAIRMAN GETZ: Okay. Is there a second? Dr. Boisvert. 13 14 Any discussion? Mr. Scott. MR. SCOTT: In the -- taking that end, 15 in the Public Counsel's request on the same lines --16 17 not quite the same -- but he further goes on, "The study should be conducted for three years and a full 18 19 report with analysis should be produced after each 20 complete year." 21 Dr. Kent, do you think that would not 22 be valuable also, to report --23 DR. KENT: Yes, please. Final 24 amendment? {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 MR. SCOTT: I would offer that. 2 DR. KENT: I'm getting tired at the end of the day. I left out some verbiage. 3 CHAIRMAN GETZ: Well, let's -- I think 4 we can dispense with the formalities of withdrawing 5 motions and seconds. Any objection to adding that as 6 7 an amendment to the motion? 8 (No verbal response) 9 CHAIRMAN GETZ: Okay. Hearing no objection, it's amended. 10 11 Mr. Dupee. MR. DUPEE: For considering 12 amendments, I think I'd like to offer as an amendment 13 that we continue with the annual monitoring by the 14 facility for reasons we talked about earlier, which 15 is there are ongoing trends in the animal populations 16 17 that change year to decade. We won't pick them up if we only do three years. I gave the example of the 18 bat populations which are in decline at the moment. 19 20 If we base all our data on three years' worth of 21 data, we may totally miss longer term trends. But I 22 think it would be, from an ecological point of view, a better way to evaluate changes over time, and 23 24 whether those changes are due to the population --{SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 fluctuations are due to any conditions at the facility, that we would look at ongoing monitoring. 2 CHAIRMAN GETZ: Well, would this be 3 fair to say: What you're saying is that you would 4 like to see the studies that Dr. Kent's proposing be 5 done in the full context of the Avian and Bat 6 7 Protection Plan, and that the recommendation by the 8 Applicant for that plan, to follow its protocol, be a condition as well, and that really what we're doing 9 is adding his particular motion with respect to the 10 types of studies and length of studies, that that be 11 also on top of them performing under the ABPP? 12 MR. DUPEE: I would say they would 13 perform as presented in the ABPP. Talking about 14 having members of the facility doing standardized 15 sorts of walks. It wouldn't be a formal, full, 16 17 professional, you know, annual event. It would be their protocol for looking for dead bats and birds, 18 so we have a comparison, a bench line of standardized 19 20 observations from year to year that you can look for 21 longer term trends in mortality. So that would not be a large consultant study. It would be the staff 22 of the facility carrying out standardized collection 23 24 of mortality.

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1 CHAIRMAN GETZ: I think I get it. So if were to say it more 2 MR. DUPEE: colloquially, people may take a course and they may 3 walk 100 yards and they will look so much to either 4 side and they will pick up -- or notice where the 5 dead birds are and try to determine what species they 6 7 happen to be. That's sort of what they would be 8 doing. And they would do that same thing year after year, so you have a statistical basis for comparison. 9 CHAIRMAN GETZ: But is that something 10 different, or that's what they're --11 MR. DUPEE: I believe that's what the 12 Applicant's proposing to do, as far as part of their 13 plan is concerned. The staff itself would do these 14 sort of formal -- not in the formal sense of a 15 consultant study, but formal in the sense of formally 16 17 a process of collecting the dead birds and rats -bats. 18 19 CHAIRMAN GETZ: Okay. 20 DR. KENT: Can we just try to clarify 21 it? So are you referring to the informal monitoring 22 part of their Avian and Bat Protection Plan? MR. DUPEE: I think they talk about 23 subsequently -- this is Iberdrola Renewable's memo we 24 {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1	talked about, Carol Henderson or to Carol
2	Henderson from Kristen Goland. Operational
3	monitoring is a series of long-term standardized
4	services or surveys, rather, using operations
5	personnel. So, in other words, the personnel would
6	be instructed, here's how you conducted the survey,
7	and they would then do that work.
8	CHAIRMAN GETZ: I'm afraid we have
9	some confusion for the record. Let me see if I got
10	this. You want them to follow the ABPP
11	MR. DUPEE: After I'm sorry, Mr.
12	Chairman.
13	CHAIRMAN GETZ: But that in addition
14	to the ABPP, Dr. Kent is proposing
15	MR. DUPEE: That would be I would
16	add I would amend Dr. Kent's motion, as amended
17	already by the gentleman from Air Resources, to add
18	in this annual to continue on as proposed by the
19	Applicant.
20	CHAIRMAN GETZ: Any other discussion?
21	Mr. Steltzer.
22	MR. STELTZER: I have some hesitancy
23	towards this. I'm looking at Applicant's Exhibit 5,
24	Appendix 46, which is the Kerlinger study. And it
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1	notes that U.S. wind farms have an average of 2.51
2	bird kills per turbine per year, and that that rate
3	is relatively higher, somewhat greater in the Eastern
4	United States. And I don't know if the level of
5	studies that are being suggested here are a good fit
6	with what the actual risk actually is. And I think I
7	do like the idea of including, over the life span of
8	the project, doing that yearly assessment. And
9	that's in the ABPP. And I would agree to a
10	three-year mortality study. But as far as doing the
11	additional breeding surveys, diurnal bat studies, et
12	cetera, I have some hesitancy towards those.
13	CHAIRMAN GETZ: Dr. Boisvert.
14	MR. BOISVERT: If I could comment?
15	Your reference to the two-point whatever bird
16	fatalities per year is sort of the equivalent of what
17	might be referred to as a meta study in the
18	pharmaceutical world, where you look at all the
19	studies on heart disease that might have been carried
20	out and might compare, you know, 4,000 different
21	studies. But in doing that kind of comparison, they
22	make some attempt to standardize so that they're
23	comparing equivalent kinds of observations in
24	equivalent situations. I think that raw number is
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1 like saying there are two arrowheads per archeological site in America. Well, I as an 2 archeologist would hear that and chuckle. 3 It isn't necessarily a meaningful kind of statistic. What 4 we're looking at here is something that can be 5 comparable in the same place with the same 6 7 methodology, roughly the same personnel, at least 8 with the same training, over a specific period of 9 time. I think that when people look at the status on avian fatalities, bat fatalities on wind turbines 10 10 or 20 years from now, they will have a far more 11 sophisticated understanding and look at the kinds of 12 data we're looking at today and thinking they're 13 simply not adequate to make certain kinds of 14 judgments and statements. We have the disadvantage 15 of not having that more correlated, more robust data 16 17 base that has been through the kinds of comparisons for a meta study. So, yes, that's a true statistic. 18 But it's hard for me when I look -- because I look at 19 lots of things and over lots of places for what I do. 20 21 And that doesn't -- it does not impress me as being a significant kind of statistic for comparison. 22 23 CHAIRMAN GETZ: Mr. Harrington, did 24 you have something?

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1 MR. HARRINGTON: Yeah, I'm still a 2 little concerned on the fact that we seem to be -- I mean, we've got the recommendation from Fish and Game 3 that they somewhat changed to go back to the original 4 recommendation. If you look at what was proposed by 5 the Applicant and their witness, and then you look at 6 7 what was proposed by Public Counsel and their 8 witness, we're going beyond the collective. If you took all of the things put together from those other 9 three groups, we're imposing criteria above that. 10 Ι just think this point -- you know, none of this was 11 brought out in the hearing. And the Public -- I 12 mean, I'd be willing to go as far as what Public 13 Counsel's objection was -- or condition was, which is 14 kind of worded kind of funny, but imposed 15 post-construction surveys for three years. 16 This is 17 the recommendation from Public Counsel's expert witness in this regard. But I think this one, we 18 19 just -- we're going well beyond what we have evidence 20 in the record to support. And I see that as not a 21 bad expert, by any stretch of the imagination. 22 CHAIRMAN GETZ: Okay. Well, I think it's fair to say that the opinions of the respective 23 members are forming, and I don't think this is an 24

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1 issue where there's going to be unanimity. So I guess I would call -- well, I guess Dr. Kent does 2 raise an issue. 3 Mr. Perry had to leave for a personal 4 So we have eight of the nine members 5 matter. present. Whether we call the question now and vote 6 7 with the eight members who are here, or do we wait 8 until first thing in the morning and vote on this issue? Because I really think we're -- I'm not sure 9 there's a lot to be gained by further discussion. 10 Ι think calling the question would make some sense, 11 whether it's -- I guess I'm indifferent to whether 12 it's at 5:00 today or 9:00 tomorrow morning. 13 Mr. Scott, you had something? 14 MR. SCOTT: Two quick questions. 15 Since we -- I agree there's really little difference. 16 17 We ought to wait for the other member to come back, since there's no down side to that in my opinion. 18 19 And maybe something for people to 20 think about, I guess, my question, not to complicate 21 this matter, but to the extent we are requiring the Applicant to invoke the ABPP for, apparently forever, 22 I guess I would ask -- one thing I did get out of 23 science today is -- from discussion today is that 24

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science is evolving. So we're talking about locking 1 2 the Applicant into this plan --CHAIRMAN GETZ: It's own plan. 3 MR. SCOTT: -- it's own plan, but 4 understanding science will change over the years. 5 So I guess my question would be, is there some mechanism 6 we should consider putting in as a condition where we 7 8 allow that plan to change? Because the way I view it, I assume we're locking them into the plan they 9 submitted to us. 10 CHAIRMAN GETZ: I think that's true. 11 12 But I'd have to go back to look to see how much flexibility there is within the plan, in terms of 13 change and the best practices. Mr. Dupee. 14 MR. DUPEE: Just going to make a 15 point, Mr. Chairman. You and I have spoken earlier 16 17 about this, which involved another committee which also has a quorum issue that meets tomorrow morning 18 19 at 9:30. So, depending upon when we meet, I may or may not be here for it, or I have to make a choice as 20 21 to which group to attend. So there is uncertainty around that. 22 CHAIRMAN GETZ: Was it your intention 23 24 to come here at 9 a.m. and then go to the other? {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

1 MR. DUPEE: The only nice thing is the other meeting is literally, I could walk from here to 2 So if you were to do a vote exactly or 3 there. shortly after 9:00, that would give me time to get 4 there. 5 CHAIRMAN GETZ: This is what I would 6 7 That we meet at 9:00 a.m., that at 9:00 propose: 8 a.m. Dr. Kent rephrase his motion, incorporating the amendments so that it's clear what the three pieces 9 are, and then we call the question. And I'm hopeful 10 that -- well, we'll see what the result is. But in 11 12 any event, it puts you in a position, Mr. Dupee, to attend your other meeting to make sure there's a 13 quorum, and hopefully you'll be able to return to us 14 fairly quickly. 15 MR. DUPEE: That's the next -- brings 16 17 us to the next question. The meeting is scheduled to go from 9:30 to 11:00 and voting on an RFP, whether 18 19 to accept it or not, for buying a major state 20 computer system. So... 21 So the other thing we could do, if you 22 wish, I could present that public health piece --CHAIRMAN GETZ: That's on an 23 24 assumption that there's -- well, never mind. $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

1 MR. DUPEE: So if you wish, I could also present the public health piece now, if that 2 would help in any way, because I can't guarantee that 3 I'm going to be back here at 10:00. Or, if you wish, 4 if the Committee is willing to adjourn or to 5 deliberate on other things until I come back, which 6 7 would be no later than 11:15, that's fine, too. CHAIRMAN GETZ: I think what we'll 8 9 need to do is recess, because I think it's going to take a while to get through your part of -- you're 10 doing part of the public health safety --11 12 MR. DUPEE: Right. CHAIRMAN GETZ: -- and Mr. Hood is as 13 Maybe we'll start -- we'll have the vote on 14 well. the natural environment issues and see where that --15 how long that goes, and then turn to Dr. Boisvert 16 17 about historic sites. And then we'll go -- then we'll go to public health and safety, whether you're 18 19 here or not, and then we'll play it by ear whether 20 it's you or Mr. Hood that goes first. 21 MR. DUPEE: Okay. 22 CHAIRMAN GETZ: Okay. Is there anything else before we recess for the day? 23 24 MR. BOISVERT: Is it legitimate or $\{\text{SEC } 2010-01\}[\text{DAY } 1 - \text{AFTERNOON SESSION ONLY}]\{04-07-11\}$

possible to start at 8:30? Is there a prohibition to starting earlier than --MR. IACOPINO: There's a published --(Court Reporter interjects.) MR. IACOPINO: I'm sorry. Mr. Chairman, there was a published notice to the public of 9:00 a.m. CHAIRMAN GETZ: So I think we're locked in at this point until 9:00 a.m. MR. BOISVERT: Okay. Don't be late. CHAIRMAN GETZ: I see nothing else, so we're recessed for the day. Thank you, everyone. (WHEREUPON, DAY 1 AFTERNOON SESSION was adjourned at 5:08 p.m.) {SEC 2010-01}[DAY 1 - AFTERNOON SESSION ONLY]{04-07-11}

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1	CERTIFICATE	
2	I, Susan J. Robidas, a Licensed	
3	Shorthand Court Reporter and Notary Public of	
4	the State of New Hampshire, do hereby	
5	certify that the foregoing is a true and	
6	accurate transcript of my stenographic notes	
7	of these proceedings taken at the place and	
8	on the date hereinbefore set forth, to the	
9	best of my skill and ability under the	
10	conditions present at the time.	
11	I further certify that I am neither	
12	attorney or counsel for, nor related to or	
13	employed by any of the parties to the action;	
14	and further, that I am not a relative or	
15	employee of any attorney or counsel employed	
16	in this case, nor am I financially interested	
17	in this action.	
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19	Susan J. Robidas, LCR/RPR	
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