

1 STATE OF NEW HAMPSHIRE  
2 SITE EVALUATION COMMITTEE

3 March 9, 2009 - 11:00 a.m.  
4 Public Utilities Commission  
21 South Fruit Street  
5 Concord, New Hampshire DAY 1  
[REDACTED - FOR PUBLIC USE]

6  
7 In re: SITE EVALUATION COMMITTEE:  
8 SEC DOCKET NO. 2008-04:  
9 Application of Granite Reliable  
10 Power, LLC, for a Certificate  
11 of Site and Facility for the  
12 Granite Reliable Power  
13 Windpark in Coos County, New  
14 Hampshire.

15 PRESENT: SITE EVALUATION COMMITTEE:  
16 Thomas B. Getz, Chrmn. Public Utilities Commission  
(Chairman of SEC Subcommittee - Presiding)  
17 Donald Kent Dept. of Resources & Econ. Dev.  
18 Glenn Normandeau Fish & Game Department  
19 Robert Scott, Director DES - Air Resources Division  
20 Christopher Northrop N.H. Office of Energy & Planning  
21 William Janelle Dept. of Transportation  
22 Michael Harrington Public Utilities Commission

23 \* \* \*

24 Counsel for the Committee: Michael J. Iacopino, Esq.

COURT REPORTER: Steven E. Patnaude, LCR No. 52

1  
2 APPEARANCES:

3 Reptg. Granite Reliable Power, LLC,  
4 and Noble Environmental Power:  
Douglas L. Patch, Esq. (Orr & Reno)  
Susan S. Geiger, Esq. (Orr & Reno)  
Page 1

GRP-DAY1.txt

5  
6 Reptg. Counsel for the Public:  
7 Peter C. L. Roth, Esq.  
8 Senior Assistant Atty. General  
9 New Hampshire Dept. of Justice  
10  
11 Reptg. N.H. Fish & Game Division:  
12 Evan Mulholland, Esq.  
13 Assistant Atty. General  
14 New Hampshire Dept. of Justice  
15  
16 Reptg. Clean Power Development:  
17 William Gabler  
18  
19 Reptg. N.H. Wind Energy Association:  
20 Farrell Seiler  
21  
22 Reptg. the Appalachian Mountain Club:  
23 David Publi cover  
24 Kenneth Kimball  
  
Reptg. Industrial Wind Action Group:  
Lisa Linowes  
  
Kathlyn Keene, pro se  
  
Jon Odell, pro se

{SEC 2008-04} [Day 1] {03-09-09}

3

	I N D E X	PAGE NO.
1		
2		
3	WITNESS PANEL: PIP DECKER	
4	MARK LYONS	
	DANIEL MANDLI	
5	Direct examination by Mr. Patch	41
	Cross-examination by Dr. Publi cover	49
6	Cross-examination by Mr. Odell	57
	Cross-examination by Ms. Linowes	59, 105
7	Cross-examination by Mr. Seiler	227
	Cross-examination by Mr. Roth	239, 279
8	Cross-examination by Mr. Iacopino	279
	Redirect examination by Mr. Patch	281
9	Recross-examination by Mr. Seiler	283

10 QUESTIONS BY SUBCOMMITTEE MEMBERS:

11 Mr. Harrington

12

13 \* \* \*

14

15 WITNESS PANEL: DAVID HESSLER  
MATTHEW BORKOWSKI

16

17	Direct examination by Mr. Patch	86
	Cross-examination by Ms. Linowes	88
18	Cross-examination by Mr. Roth	96

19 QUESTIONS BY SUBCOMMITTEE MEMBERS:

20	Dir. Scott	99, 101
	Mr. Harrington	99
21	Dr. Kent	103

22

23

24

{SEC 2008-04} [Day 1] {03-09-09}

1	E X H I B I T S		
2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	Petitioner 1.1	Application Volume 1	premarked
4	Petitioner 1.2	Application Volume 2	premarked
5	Petitioner 1.3	Application Volume 3	premarked
6	Petitioner 1.4	Application Volume 4	premarked
7	Petitioner 1.5	Application Volume 5	premarked
8	Petitioner 2.1	Supplement to Application Volume 1a	premarked
9			
10	Petitioner 2.2	Supplement to Application Volume 6	premarked
11	Petitioner 3	Pre-filed Testimony of Charles Reading & Pip Decker	premarked
12			
13	Petitioner 4	Supplemental Pre-filed Testimony of Pip Decker Mark Lyons	premarked
14			
	Petitioner 5	Pre-filed Testimony of Page 3	premarked

15		GRP-DAY1.txt Christopher Lowe	
16	Peti ti oner 6	Suppl emental Pre-fi led Testi mony of Chri stopher Lowe	premarked
17	Peti ti oner 7	Pre-fi led Testi mony of Dani el Mandl i	premarked
18			
19	Peti ti oner 8	Suppl emental Pre-fi led Testi mony of Dani el Mandl i	premarked
20	Peti ti oner 9	Pre-fi led Testi mony of Phi lip Beau lieu	premarked
21			
22	Peti ti oner 10	Suppl emental Pre-fi led Testi mony of Steven Lafrance	premarked
23			
24			

{SEC 2008-04} [Day 1] {03-09-09}

5

1		E X H I B I T S	
2	EXHIBIT NO.	D E S C R I P T I O N	PAGE NO.
3	Peti ti oner 11	Pre-fi led Testi mony of Raymond Lobdel l	premarked
4	Peti ti oner 12	Suppl emental Pre-fi led Testi mony of Raymond Lobdel l	premarked
5			
6	Peti ti oner 13	Pre-fi led Testi mony of Stephen Pel leti er and Adam Gravel	premarked
7			
8	Peti ti oner 14	Suppl emental Pre-fi led Testi mony of Stephen Pel leti er and Adam Gravel	premarked
9			
10	Peti ti oner 15	Pre-fi led Testi mony of Jean Vi sseri ng	premarked
11	Peti ti oner 16	Suppl emental Pre-fi led Testi mony of Jean Vi sseri ng	premarked
12			
13	Peti ti oner 17	Pre-fi led Testi mony of Hope Luhman	premarked
14	Peti ti oner 18	Suppl emental Pre-fi led Testi mony of Hope Luhman	premarked
15			
16	Peti ti oner 19	Pre-fi led Testi mony of Davi d Hessl er	premarked
17	Peti ti oner 20	Pre-fi led Testi mony of Matth ew Borkowski	premarked
18			
19	Peti ti oner 21.1	GRP Responses to Public Counsel 's Data Requests, Page 4	premarked

20 GRP-DAY1.txt  
 Volume I

21 Petitioner 21.2 GRP Responses to Public premarked  
 Counsel's Data Requests,  
 22 Volume II

23

24

{SEC 2008-04} [Day 1] {03-09-09}

6

1 E X H I B I T S

2 EXHIBIT NO.	D E S C R I P T I O N	PAGE NO.
3 Petitioner 21.3	GRP Responses to Public Counsel's Data Requests, 4 Volume III	premarked
5 Petitioner 21.4	GRP Responses to Public Counsel's Data Requests, 6 Volume IV	premarked
7 Petitioner 22.1	GRP Responses to IWAG Data Requests, Volume I	premarked
8 Petitioner 22.2	GRP Responses to IWAG 9 Data Requests, Volume II	premarked
10 Petitioner 22.3	GRP Responses to IWAG Data Requests, Volume III	premarked
11 Petitioner 23	GRP Responses to AMC 12 Data Requests	premarked
13 Petitioner 24	GRP Responses to NHWEA Data Requests	premarked
14 Petitioner 25	GRP Responses to Site 15 Evaluation Committee Data Requests	premarked
16 Petitioner 26	GRP Responses to Kathlyn 17 Keene's Data Requests	premarked
18 Petitioner 27	GRP Responses to Data Requests from Technical 19 Session 2	premarked
20 Petitioner 28	GRP Responses to Data 21 Requests from Technical Session 3	premarked
22 Petitioner 29	RESERVED (GRP Responses to Data Requests from 23 Technical Session 4	premarked

24

1	E X H I B I T S		
2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	Petitioner 30	RESERVED (Public Counsel's Responses to Data Requests from Technical Session 4	premarked
4			
5	Petitioner 31	IWAG Responses to Data Requests from GRP	premarked
6			
7	Petitioner 32	AMC Responses to Data Requests from GRP	premarked
8			
9	Petitioner 33	Public Counsel's Responses to Data Requests from GRP	premarked
10			
11	Petitioner 34.1	Fish & Game Responses to Data Requests from GRP, Volume I	premarked
12			
13	Petitioner 34.2	Fish & Game Responses to Data Requests from GRP, Volume II	premarked
14			
15	Petitioner 35	Kathlyn Keene's Responses to Data Requests from GRP	premarked
16			
17	Petitioner 36	Meeting minutes of	premarked
18			
19	Petitioner 37	February 25, 2009 DHR/USACE Site Visit	premarked
20			
21	Petitioner 38	Letter from Americans Forest Management, Inc. (11-13-07)	premarked
22			
23	Petitioner 39	DES 401 Water Quality Certificate	premarked
24			
	Petitioner 40	DES Wetlands Permit	premarked
	Petitioner 41	DES Alteration of Terrain Permit	premarked

1	E X H I B I T S		
2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	PC 1	Pre-filed Testimony of Page 6	premarked

		GRP-DAY1.txt	
4		Dr. George Mariani	
5	PC 2	Pre-filed Testimony of Dr. Gary Sanford	premarked
6	PC 3	Pre-filed Testimony of Trevor Lloyd Evans	premarked
7			
8	PC 4	Supplemental Pre-filed Testimony of Dr. Gary Sanford	premarked
9	PC 5	Pre-filed Testimony of Jim Sundstrom, with exhibits	premarked
10			
11	PC 6	Guidelines for Conducting Bird and Bat Studies at Commercial Wind Energy Projects	premarked
12			
13	PC 7	Jim Sundstrom's Financial Models	premarked
14			
15	PC 8	CONFIDENTIAL Exhibits to Counsel for the Public's Motion to Suspend Proceedings (Company financials)	premarked
16			
17	PC 9	Form S-1 Registration Statement, Filed May 8, 2008 and Amendment No. 4 to Form S-1 (Filed 09-11-08)	premarked
18			
19	PC 10	E-Mail from Applicant's Counsel to Kathlyn Keene (March 3, 2009)	premarked
20			
21			
22			
23			
24			

{SEC 2008-04} [Day 1] {03-09-09}

9

1		E X H I B I T S	
2	EXHIBIT NO.	D E S C R I P T I O N	PAGE NO.
3	F&G 1	Pre-filed Testimony of Will Staats and Jillian Kelly	premarked
4			
5	F&G 2	Final Recommendations for Permit Conditions	premarked
6	F&G 3.1	Habitat Profile: High Elevation Spruce Fir	premarked
7			
8	F&G 3.2	Species Profile: American Marten	premarked

GRP-DAY1.txt

9	F&G 3.3	Species Profile: Canadian Lynx	premarked
10	F&G 3.4	Species Profile: Three Toed Woodpecker	premarked
11	F&G 3.5	Species Profile: Bicknell's Thrush	premarked
12	F&G 4	Birds of North America	premarked
13	F&G 5	Mammals of North American	premarked
14	AMC 1	Pre-filed Testimony of Dr. David Publi cover	premarked
15	AMC 2	Suppl emental Pre-fi led Testimony of Dr. Davi d Publi cover	premarked
16	AMC 3	Lempster Wind, LLC Certificate of Site and Facility (SEC Docket 2006-01) Appendix III, Section 14	premarked
17	AMC 4	Evergreen Wind Power V, LLC deci si on document (Mai ne Land Use Reg. Commi ssi on Permi t DP 4788, Condi ti on 13	premarked
18			
19			
20			
21			
22			
23			
24			

{SEC 2008-04} [Day 1] {03-09-09}

10

1	E X H I B I T S		
2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	AMC 5	TransCanada Maine Wind Development, Inc. deci si on document (Mai ne Land Use Reg. Commi ssi on Permi t DP 4794), Condi ti ons 10.C and 14	premarked
4	AMC 6	Dettmers, Randy. 2006. A Blueprint for the Design and Delivery of Bird Conservation in the Atlantic Northern Forest, U.S. Fish & Wildlife Service Atlantic Coast Joint Venture (Pages 1-30, 52, 185-187)	premarked
5	AMC 7	Leverett, R. 1996. Defini ti ons and Hi story. Pp. 3-17 in Eastern Old-Growth Forests: Prospects for Redi scovery and Recovery (M.B. Davi s, ed.) Isl and Press, Page 8	premarked
6			
7			
8			
9			
10			
11			
12			
13			

GRP-DAY1.txt  
Washington, D. C.

14  
15 AMC 8 National Academy of Sciences. premarked  
16 2007. Environmental Impacts  
17 of Wind-Energy Projects.  
18 National Acad. of Sciences  
19 National Research Council,  
20 Washington, D. C. (Cover page,  
21 pages 48-50, 72-95)  
22 AMC 9 Rimmer, C. C., K. P. McFarland, premarked  
23 J. D. Lambert, R. B. Renfrew.  
24 2004. Evaluating the use of  
Vermont Ski Areas by Bicknell's  
Thrush: Applications of  
Whiteface Mountain, New York.  
Vermont Institute of Natural  
Science, Woodstock, VT.

{SEC 2008-04} [Day 1] {03-09-09}

11

1 E X H I B I T S

2 EXHIBIT NO.	D E S C R I P T I O N	PAGE NO.
3 AMC 10	Rimmer, C. C., J. D. Lambert and K. P. McFarland. 2005. 4 Bicknell's Thrush Conservation 5 Strategy for the Green Mtn. 6 National Forest. VINS Technical Report 05-5. Vermont Institute of Natural Science, Woodstock, VT.	premarked
7 AMC 11	Rosenberg K. V. and T. P. 8 Hodgman. 2000. Partners in 9 Flight Landbird Conservation 10 Plan: Region 28: Eastern Spruce-Hardwood Forest (Draft 1.0). American Bird Conservancy, The Plains, VA.	premarked
11 AMC 12	Seidel, T. M., D. M. Weihrach, 12 K. D. Kimball, A. P. Pszenny, 13 R. Soboleski, E. Crete and 14 G. Murray. Evidence of climate change since the 1930s declines with elevation on Mt. Washington, 15 N. H., USA. Arctic, Antarctic, and Alpine Research J. (Accepted for publication)	premarked
16 AMC 13	Spear, R. W. 1989. Late- 17 Quaternary history of high- elevation vegetation in the 18 White Mtns. of N. H. Ecological Monographs 59: 125-151	premarked

19 AMC 14 Desponts, M., G. Brunet, L. Belanger and M. Bouchard. 2004. The eastern boreal old-growth balsam-fir forest: a distinct ecosystem. Canadian Journal of Botany 82: 830-849  
 20  
 21  
 22  
 23  
 24

{SEC 2008-04} [Day 1] {03-09-09}

E X H I B I T S		
EXHIBIT NO.	DESCRIPTION	PAGE NO.
NHWEA 1	Iberdrola/PSNH Power Purchase Agreement	premarked
NHWEA 2	Iberdrola/PSNH Agreement for Purchase of RECs	premarked
NHWEA 3	Iberdrola/PSNH New Hampshire Electric Loop Agreement	premarked
NHWEA 1	Iberdrola/PSNH Interconnection Agreement	premarked
KK 1	Kathlyn Keene Pre-filed Testimony	premarked
KK 2	Kathlyn Keene Supplemental Pre-filed Testimony	premarked
IWA-X-1	Mechanical Operating & Maintenance Manual	premarked
IWA-X-2	"Problems at Wind Farm could Derail Acquisition"	premarked
IWA-X-4	Page from ISO Standard	premarked
IWA-X-6	Email from Randy Swisher	premarked
IWA-X-9	USDOE 20% Wind Energy by 2030	premarked
Petitioner 42	RESERVED (Depiction of sound levels on Cohos Trail...)	103
Petitioner 43	RESERVED (Explanation of 389 foot height used in FAA filings)	117
Petitioner 44	RESERVED (Amount of tolerance at which turbines will shut down when ice builds up on the blades)	124
Petitioner 45	RESERVED (Confidential record)	216

{SEC 2008-04} [Day 1] {03-09-09}

1

P R O C E E D I N G S

2

CHAIRMAN GETZ: Okay. Good morning,

3

everyone. I'm going to open the public hearing in Site

4

Evaluation Committee Docket Number 2008-04, regarding the

5

merits of an Application that was filed on July 15, 2008

6

by Granite Reliable Power for a Certificate of Site and

7

Facility to construct and operate a 99 megawatt wind power

8

electric generation facility in Coos County consisting of

9

33 3-megawatt turbines, along with transmission and other

10

associated facilities. Thank you, everyone, for being

11

able to make it here. Obviously, the elements have not

12

cooperated.

13

My name is Tom Getz. I'm the Chairman

14

of the Public Utilities Commission, and, as a result, I am

15

the Vice Chairman of the Site Evaluation Committee. And,

16

I have been designated as the presiding officer for this

17

proceeding. The members of the Committee designated for

18

this proceeding include, beginning on my far right, Chris

19

Northrup, from the Office of Energy and Planning. On

20

August 29, the Director of Energy and Planning, Amy

21

Ignatius, recused herself from this proceeding, and

22

appointed her Deputy, Jack Ruderman, as her designee for

23

this proceeding. Subsequently, in December, Mr. Ruderman

24

left the employ of the Office of Energy and Planning,

{SEC 2008-04} [Day 1] {03-09-09}

1

actually, he now works for the Public Utilities

2 Commission. And, after that, Ms. Ignatius designated  
3 Mr. Northrup as OEP's representative on the Subcommittee.  
4 Also, we have Bob Scott, from the Department of  
5 Environmental Services; Glenn Normandeau, the Director of  
6 New Hampshire Fish & Game; on my right is Michael  
7 Harrington, is an engineer appointed for this proceeding  
8 by the Public Utilities Commission; on my left is Bill  
9 Janelle, from the Department of Transportation; and next  
10 to him is Don Kent, from the Department of Resources and  
11 Economic Development. Also present this morning is  
12 Michael Iacopino, who is Counsel to the Site Evaluation  
13 Committee. I note for the record as well that the  
14 Attorney General has designated for this proceeding Peter  
15 Roth to serve as Counsel for the Public.

16 Before we turn to the examination of the  
17 Applicant's witnesses, I will provide some additional  
18 background for the record, take appearances from the  
19 parties, discuss some ground rules for the hearings, and  
20 address any outstanding procedural matters.

21 In terms of procedural background, the  
22 Granite Reliable Power Project is proposed to be located  
23 in the Town of Dummer and the unincorporated places of  
24 Dixville, Erving's Location, Odell, and Millsfield. The

{SEC 2008-04} [Day 1] {03-09-09}

15

1 turbines are proposed to be built on Dixville Peak, Mount  
2 Kelsey, Owlhead Mountain, and an unnamed ridgeline  
3 sometimes referred to as "Fishbrook".

4 The Application in this case was  
5 accepted on August 14, 2008, when DES Commissioner Thomas  
6 Burack, Chairman of the Site Evaluation Committee, issued

7 an order pursuant to RSA 162-H:6-a, finding that the  
8 Application contained sufficient information to carry out  
9 the purposes of the Site Evaluation statute. Acceptance  
10 of the Application started the 240 day statutory time  
11 period during which this Subcommittee designated for the  
12 proceeding must issue or deny a certificate. The 240 day  
13 period ends on April 6th, 2009.

14 An order was issued on August 27, 2008,  
15 scheduling a prehearing conference, which was held on  
16 September 18, 2008. The order also scheduled a public  
17 informational hearing, which was held at Groveton High  
18 School on October 2nd, 2008, and a site visit, which was  
19 conducted on October 3, 2008. The prehearing conference  
20 led to an order on September 26th approving a procedural  
21 schedule. That schedule provided for discovery by the  
22 parties concerning the Application, and it provided for  
23 testimony by Public Counsel and Intervenors by December  
24 10, 2008, and that date was subsequently extended until

{SEC 2008-04} [Day 1] {03-09-09}

16

1 January 5, 2009. The procedural schedule also provided  
2 for a round of supplemental testimony by February 23.  
3 And, it provided for the commencements of hearings today,  
4 March 9.

5 In addition, an order was issued on  
6 October 14 granting Petitions to Intervene in this  
7 proceeding by Clean Power Development, Kathryn Keene,  
8 Robert Keene, Jon Odell, Sonja Sheldon, Wayne Urso, the  
9 Appalachian Mountain Club, the Industrial Wind Action  
10 Group represented by Lisa Linowes, and the New Hampshire  
11 Wind Energy Association represented by Farrell Seiler. In

12 addition to the Applicant, testimony has been filed by  
13 Counsel for the Public, the New Hampshire Department of  
14 Fish & Game, and the Appalachian Mountain Club, as well as  
15 Ms. Linowes and Ms. Keene. I'll also note for the record,  
16 in a prehearing conference last week, a petition to -- an  
17 intervention was granted to the New Hampshire Department  
18 of Fish & Game.

19 Hearings are scheduled for today, March  
20 9, as well as Tuesday, March 10, Wednesday, March 11, and  
21 Friday, March 13. Hearings are also scheduled next week  
22 to occur on Monday, March 16th and Tuesday, March 17th,  
23 and those hearings are intended to focus on financial  
24 issues. Closing arguments have been scheduled to occur at

{SEC 2008-04} [Day 1] {03-09-09}

17

1 3:00 on Thursday, March 19, at the DRED offices in  
2 Lancaster. And, of course, that assumes that the hearings  
3 have been completed prior to providing for closing  
4 arguments. In addition, a public hearing has been  
5 scheduled for 6:30 on Monday evening, March 23, at the  
6 Lancaster Town Hall, for the purpose of receiving public  
7 comment.

8 One other item I wanted to point out is  
9 that note for the record that budget hearings are in  
10 progress this week and next week at the Legislature, and  
11 several members may need to attend those hearings during  
12 this week and possibly next week. Our intention, so long  
13 as there is a quorum, we will continue with the hearings.  
14 And, it is the responsibility of any member of this  
15 Subcommittee, who is absent for any period of time for the  
16 hearings, that they must read the transcript for the

17 period while they were absent from the hearings in order  
18 to permit them to vote on the final Application.

19 Let's, at this time, take appearances  
20 for the record, beginning with the Applicant.

21 MR. PATCH: Good morning, Mr. Chairman,  
22 members of the Committee. My name is Doug Patch. I'm  
23 with the law firm of Orr & Reno, and with me this morning  
24 Susan Geiger, also with Orr & Reno. We're counsel for the

{SEC 2008-04} [Day 1] {03-09-09}

18

1 Applicant.

2 CHAIRMAN GETZ: Good morning.

3 MS. GEIGER: Good morning.

4 CHAIRMAN GETZ: Mr. Gabler.

5 MR. GABLER: Good morning, Mr. Chairman,  
6 members of the Committee, Bill Gabler, for Clean Power  
7 Development.

8 MS. KEENE: Kathlyn Keene, intervenor.

9 CHAIRMAN GETZ: Good morning.

10 MS. KEENE: Good morning.

11 CHAIRMAN GETZ: Sir.

12 MR. ODELL: Good morning, Mr. Chairman.  
13 Jon Odell, intervenor.

14 CHAIRMAN GETZ: Good morning. Other  
15 parties? Ms. Linowes.

16 MS. LINOWES: Mr. Chairman, members of  
17 the Committee, good morning. My name is Lisa Linowes,  
18 Industrial Wind Action Group.

19 CHAIRMAN GETZ: Good morning. Mr.  
20 Publi cover.

21 DR. PUBLI COVER: Yes. David Publi cover,

22 representing the Appalachian Mountain Club. And, I'm  
23 joined by Kenneth Kimball, also from the Appalachian  
24 Mountain Club.

{SEC 2008-04} [Day 1] {03-09-09}

19

1 CHAIRMAN GETZ: Good morning.

2 MR. MULLHOLAND: Mr. Chairman, I'm Evan  
3 Mullholand, from the Attorney General's Office, here on  
4 behalf of Fish & Game.

5 CHAIRMAN GETZ: Good morning.

6 MR. ROTH: Good morning, Mr. Chairman,  
7 members of the Committee. I'm Peter Roth, Counsel for the  
8 Public, appointed by the Attorney General.

9 CHAIRMAN GETZ: Okay. Good morning.  
10 And, I take it there are no other parties who are present  
11 this morning to make their appearance?

12 (No verbal response)

13 CHAIRMAN GETZ: So, let's move onto a  
14 couple of ground rules for the hearings. This has been I  
15 think noted before in technical sessions, and I brought it  
16 up again at the prehearing conference last week, but I'll  
17 make clear that the witnesses have all prefiled their  
18 direct testimony in writing. Direct examination will  
19 therefore comprise only those questions necessary to  
20 qualify the witness, and they will, once the witness is  
21 qualified and sworn, we will move to cross-examination.  
22 And, the order of cross-examination, for purposes of the  
23 Applicant's witnesses, we'll begin with Fish & Game,  
24 Mr. Mullholand will have the opportunity; then the

{SEC 2008-04} [Day 1] {03-09-09}

20

1 Appalachi an Mountain Club; then we'll turn to Mr. Gabler;  
2 then to -- Mr. Seiler does not appear to be here today;  
3 then we will turn to Ms. Keene; and then to Ms. Linowes;  
4 and Counsel for the Public, Mr. Roth, will go last in  
5 terms of cross-examination. At that point, we'll have  
6 questions from the Subcommittee, and then there will be an  
7 opportunity for redirect.

8 I want to address also the manner of  
9 cross-examination of panels. We have a number of panels  
10 consisting of two, and, in the first instance, three  
11 persons. This is an issue that has caused some discussion  
12 in previous proceedings. And, the way we will handle  
13 cross-examination of panels is this: It is up to the  
14 discretion of the cross-examiner whether to direct a  
15 question to a particular witness or to direct it to the  
16 panel. When questions are directed to a particular  
17 witness, if the witness cannot answer the question, he may  
18 say who might be better qualified to answer, but that does  
19 not automatically open the floor to other witnesses. The  
20 cross-examiner may follow up, if he or she chooses, with  
21 another witness, but the cross-examiner is not required to  
22 do so. As presiding officer, if I believe it's in the  
23 interest of the orderly conduct of the proceeding, I may  
24 follow up at that time. But, of course, members of the

{SEC 2008-04} [Day 1] {03-09-09}

21

1 Committee can always follow up during their questions, or  
2 the issues can be ultimately addressed on redirect by  
3 who's ever supporting the witness. I also note that  
4 panels are intended to assist in the orderly conduct of  
5 the proceeding and to, as best as we can, review related

6 pieces of evidence at the same time. It does not  
7 constitute permission for the panel to confer orally,  
8 either through -- or through notes before answering a  
9 question. So, let's, for all the witnesses who are  
10 members of the panel, let's keep that in mind. And, also,  
11 for anyone who's cross-examining, if you don't want a  
12 question to be directed to the entire panel, then turn  
13 your question to a particular member of the panel.

14 For witnesses, witnesses are reminded to  
15 answer questions as directly as possible. If the question  
16 can be fairly answered by a "yes" or "no" or in another  
17 direct manner, the direct answer should be given first,  
18 and an opportunity to explain will be permitted. As for  
19 persons cross-examining, please ask your questions as  
20 directly as possible. I'll note that there -- sometimes  
21 there's a fine line between a question and an argument.  
22 There will be plenty of opportunity for argument to make  
23 at the closing statements and in briefs at the end of the  
24 proceedings. I note, however, that there are parties not

{SEC 2008-04} [Day 1] {03-09-09}

22

1 represented by counsel, and such parties will be given  
2 reasonable leeway in their cross-examination.

3 Any questions about these particular  
4 ground rules, before I move onto some open procedural  
5 issues? Ms. Linowes.

6 MS. LINOWES: Yes, Mr. Chairman. I  
7 don't know if these mikes are working. But, with regard  
8 to the panel, if a cross-examiner asks a question of one  
9 panel member, since we're not entirely sure each person's  
10 expertise, we do have some understanding, but their

11 specific knowledge of the project, could you remind the  
12 panelists that, if one party knows more information than  
13 was prompted or made available by another panelist, that  
14 they would have an obligation to offer that information?  
15 Do you understand the question?

16 CHAIRMAN GETZ: Well, let me put it this  
17 way. I think, in the first instance, who's ever  
18 cross-examining a witness will probably be referring to  
19 some particular piece of testimony. What I was trying to  
20 make clear was, if a question is directed to a particular  
21 witness, that witness tries to answer as best that they  
22 can. If they think there's another party who is better  
23 able to answer, they may point out who that party is. But  
24 that doesn't give this other party permission to speak

{SEC 2008-04} [Day 1] {03-09-09}

23

1 unless, for instance, if you had asked Mr. Smith for a  
2 question, Mr. Smith said "Mr. Jones could answer that  
3 better", it's up to you whether you want to follow up with  
4 the second witness.

5 MS. LINOWES: I understand that. And,  
6 my point is, I want to make sure it's not permission to  
7 withhold information. I'm speaking specifically to the  
8 Application that was filed. There's prefiled testimony,  
9 but there is also the Application, which information  
10 within the Application is not specifically referenced in  
11 some of the testimony. Thank you.

12 CHAIRMAN GETZ: Okay. Well, I guess  
13 we'll just have to address that issue if and when it  
14 arises. My experience with most witnesses, they would be  
15 more than happy to say everything that they can in answer

16 to a question.

17 Any other issues with respect to those  
18 testimonial ground rules?

19 (No verbal response)

20 CHAIRMAN GETZ: Okay. Let's move onto  
21 some procedural matters. Exhibits have been marked,  
22 copies should have been distributed to the Committee and  
23 to the -- and to all the parties. But there's one issue  
24 regarding exhibits. Counsel for the Public filed an

{SEC 2008-04} [Day 1] {03-09-09}

24

1 objection on Friday evening with respect to what's denoted  
2 as "Applicant's Exhibit 56", which is entitled the  
3 "Economic Impact of Granite Reliable Power Wind Power  
4 Project in Coos County", authored by Ross Gittell and Matt  
5 Magnusson. Counsel for the Public argues that the  
6 evidence should be denied. We have a response by the  
7 Applicant that was filed on March 8 asking that we  
8 overrule the objection. And, well, let me give quickly,  
9 Mr. Roth, do you have any --

10 MR. IACOPI NO: Mr. Chairman, I just want  
11 to make sure the record's clear. What we're talking about  
12 is Petitioner's Exhibit 2.2, which is the Volume 6, the  
13 Supplement to the Application. And, it's Appendix 56  
14 within that exhibit that is the subject of the objection,  
15 as I understand it.

16 CHAIRMAN GETZ: Yes. Thank you.  
17 Mr. Roth.

18 MR. ROTH: Certainly. There are a lot  
19 of things in this, in this case, many papers, many  
20 reports, many documents. For example, there's a breeding

21 bird study in there that was made part of the record back  
22 in July or August, very early on. And, the parties all  
23 had an opportunity to ask questions about it, learn more  
24 about it. And, if there was going to be a witness

{SEC 2008-04} [Day 1] {03-09-09}

25

1 proffered with respect to the breeding bird survey, I'm  
2 sure we would have had an opportunity to meet that witness  
3 and deal with it or learn from them. And, there are a  
4 number of other documents in the file, in the record,  
5 technical reports, fairly dry stuff that doesn't touch on  
6 sort of an expert opinion.

7 On the 25th of February, buried in the  
8 volume of supplemental information and supplemental  
9 testimony, the Applicant filed the economic impact paper,  
10 authored by two individuals, one of whom appears to be a  
11 professor at UNH. And, that document makes a number of  
12 conclusions and provides opinions, and apparently a fair  
13 amount of research was conducted. And, it was a study  
14 apparently funded and paid for by the Applicant, over --  
15 and I don't know how long it took, but it apparently took  
16 a long time. I mean, based on the amount of research that  
17 was described in that paper, they put a considerable  
18 amount of time and effort. Yet, not until February 25th  
19 was anybody apprised of the existence of this report or  
20 this paper. Way too late for anybody to have any  
21 opportunity to examine the factual assumptions, to examine  
22 the science of the model, to examine anything about it,  
23 and even the background of the author. We had basically  
24 two weeks to deal with a fairly significant bit of

{SEC 2008-04} [Day 1] {03-09-09}

1 research that was kept from us since August.

2 I think, at this point, to introduce  
3 that document, with no ability to cross-examine those  
4 witnesses, those people who wrote that paper, no ability  
5 to conduct any discovery about it, it's completely unfair  
6 and denies all the other parties the right of  
7 cross-examination of those witnesses, which I believe,  
8 while, you know, I understand the rules of evidence don't  
9 apply here, I do believe that it's well established that  
10 the right to cross-examine witnesses is and does apply  
11 here. And, I object to that, the introduction of that  
12 report, that paper, because there's no ability to  
13 cross-examine those people, no ability to do any  
14 discovery.

15 Now, the Applicant has said "Okay, well,  
16 we'll bring him in. We'll put him on the stand. You can  
17 cross-examine him. You can talk to him." It's too late  
18 for that. The hearing is today. It's too late to bring  
19 in a new witness that they have been essentially preparing  
20 since August. That's just not fair. And, I think that  
21 report should not be allowed. Thank you.

22 CHAIRMAN GETZ: Mr. Patch.

23 MR. PATCH: Thank you, Mr. Chairman,  
24 members of the Committee. A couple of things I'd like to

{SEC 2008-04} [Day 1] {03-09-09}

1 note. First of all, this was filed on February 24th,  
2 consistent with the schedule that the Committee had laid  
3 out for submitting supplemental information. Mr. Roth

4 failed to raise this objection at the prehearing  
5 conference or before that. He didn't file the objection  
6 until, I received it on Saturday, maybe it was Friday  
7 night. We didn't keep this from him since August. It  
8 wasn't prepared until -- I think it was actually in  
9 February that it was prepared. The reason that it was  
10 prepared was to respond to particular concerns expressed  
11 by Intervenors and others over the fact that there was not  
12 some professional study like this done, and so we did it  
13 in response to those concerns.

14 Now, as I noted in an e-mail that I sent  
15 this morning, in our response to the objection, I  
16 incorrectly said that we did not receive a copy of the  
17 DRED comments that were submitted and referenced in the  
18 order last August. And, I had forgotten, but there was an  
19 e-mail that I had received back in August. So, I  
20 apologize for that. But I still think that the issues  
21 here are important ones, and that is, as Mr. Roth knows,  
22 this is an iterative process. And, the Applicant is given  
23 the opportunity to respond to concerns that are raised by  
24 Intervenors during the process, and that's essentially  
{SEC 2008-04} [Day 1] {03-09-09}

28

1 what we did. We are, as he pointed out, willing to make  
2 him available. He has some scheduling problems, but I  
3 think we can find a way to fit him in, if that's the Chair  
4 and the Committee's desire. And, we would urge you to  
5 consider that report, because I think it's important  
6 information that ought to be made available as part of the  
7 record. Thank you.

8 MR. ROTH: Mr. Chairman, --

9 CHAIRMAN GETZ: Any other parties that  
10 would like to weigh in? Ms. Linowes.

11 MS. LINOWES: Mr. Chairman, yes. I  
12 agree with Mr. Roth on the issue here that this is very  
13 last minute. But the key point is that, had we known that  
14 there was going to be this document coming forward, other  
15 intervenors would have had an opportunity to have brought  
16 forward an expert to counter. It's not sufficient to  
17 simply ask questions and poke holes in a report that's  
18 been brought forward. One could have stepped much further  
19 into this debate. And, so, it's quite disappointing it's  
20 coming this late time, and perhaps a delay in the  
21 hearings, if it's that important to have this process --  
22 this evidence be brought forward. Thank you.

23 CHAIRMAN GETZ: Anyone else? Ms. Keene.

24 MS. KEENE: Mr. Chairman, I --

{SEC 2008-04} [Day 1] {03-09-09}

29

1 CHAIRMAN GETZ: Ms. Keene, if you can  
2 use the microphone please.

3 MS. KEENE: I'm sorry.

4 CHAIRMAN GETZ: Thank you.

5 MS. KEENE: Is it on?

6 MR. PATNAUDE: Yes.

7 MS. KEENE: I would just like to say  
8 that probably Doug Patch is bringing this up because I  
9 happened to be one of the intervenors that actually put it  
10 in my prefiled testimony, that I thought not enough was  
11 done on the economic aspect of things. This report I had  
12 a chance to read briefly and couldn't absorb much of it.  
13 But what it's actually saying is what the construction of

14 this facility would bring for Coos County on a temporary  
15 basis. What I was looking for is the impact that it was  
16 going to have on us economically with our source of living  
17 in the Coos County, in which I mean logging is an  
18 important industry that we have, but the second is  
19 tourism. And, if you look in my prefiled testimony, in  
20 the supplemental testimony, you will see the amount of  
21 traffic flow that does flow on 16 and 26 in this -- on the  
22 scenic -- they are scenic roads. And, what concerns me is  
23 nothing was done to make a determination. I realize that  
24 this facility is going to bring some money to Coos County.

{SEC 2008-04} [Day 1] {03-09-09}

30

1 I recognize that. I recognize two years there will be  
2 construction money. After that, there will be payment in  
3 lieu of taxes, that an agreement has been signed.

4 CHAIRMAN GETZ: Excuse me, Ms. Keene.

5 MS. KEENE: Yes.

6 CHAIRMAN GETZ: But I think you're going  
7 to the substantive issue with respect to the economic  
8 development.

9 MS. KEENE: Okay.

10 CHAIRMAN GETZ: What I'm trying to  
11 address now is, procedurally, whether this study should be  
12 allowed in the record or not.

13 MS. KEENE: And, I would say "no".

14 CHAIRMAN GETZ: Thank you.

15 MS. KEENE: For those reasons.

16 CHAIRMAN GETZ: Thank you. Mr. Roth,  
17 did you have something further?

18 MR. ROTH: Yes. I just wanted to point

19 out that, in the testimony, the supplemental testimony  
20 that was filed on the 23rd, at the same time as the study  
21 or the "paper" I'd like to call it, the Applicant  
22 testified that they created this paper in response to  
23 Department of Resources and Economic Development's  
24 comments on the Application dated August 14th that it was  
{SEC 2008-04} [Day 1] {03-09-09}

31

1 lacking in certain documentation. And, in response to  
2 discussions and questions from intervenors, we decided it  
3 would be useful to further quantify the impact. And,  
4 then, this morning I got an e-mail from Attorney Patch,  
5 where he included the comments that were made by DRED.  
6 And, because I searched the record to find out where those  
7 comments were, and there was nothing on the record back in  
8 August of DRED comments. And, I don't know how this  
9 affects the makeup of the Committee right now, but the  
10 e-mail is from Mr. Kent. And, in it, he describes what  
11 was lacking. And, none of the things that he pointed out  
12 as lacking included an analysis of the economic impacts.  
13 So, the testimony is inconsistent with the reality. And,  
14 I think that what's going on is that, you know, they have  
15 been thinking about this, perhaps erroneously, since  
16 August, that somehow they had to do more documentation for  
17 this report. And, so, they have known about the work  
18 underway and they haven't said anything about it. And,  
19 so, now here we are with no ability to cross-examine these  
20 witnesses, you know, with this, I don't want to call it an  
21 "ambush", but that's kind of what it is. And, I just  
22 object to it as being included, because it's really not  
23 fair to do it this late in the game. Thank you.

1 one brief response on it? I just want to remind the  
2 Committee that, first of all, Public Counsel waited until  
3 the last minute for its financial expert, and the  
4 Applicant has been required to pay \$75,000 for that  
5 expert. So, I don't think he comes before this Committee  
6 with clean hands when it comes to "waiting until the last  
7 minute".

8 And, then, secondly, I guess what I  
9 would like to point out is, we did this in conformance  
10 with the schedule that the Committee had laid out in its  
11 orders. And, so, we don't feel that we did anything that  
12 was inappropriate.

13 CHAIRMAN GETZ: You get the chance to go  
14 last, Mr. Roth.

15 MR. ROTH: To suggest that somehow I  
16 don't have clean hands, you know, it's really too early in  
17 the day for that. And, I hope that we can have a more  
18 positive discourse about it. But the suggestion was made,  
19 "Okay, let's delay the proceeding." And, I think, you  
20 know, maybe that's the right thing to do. But I think  
21 what we ought to do then is to give Counsel to the Public  
22 an opportunity to retain an expert on economic impacts,  
23 at, of course, the Applicant's expense, and then we can  
24 conduct our own study to refute it or confirm it. And,

1 let's, you know, put the hearing off for several months, I  
2 suppose, and we can go through that process. But I think

3 that the right thing to do, frankly, is to not admit this  
4 report. It's just too late to mess around with that now.  
5 Thank you.

6 CHAIRMAN GETZ: Okay. Let me address  
7 the motion in this way. There's now two issues of  
8 relevance that have been raised. The first is Mr. Patch  
9 is pointing to Mr. Roth's request for a financial  
10 consultant, and that's not at all relevant to a decision  
11 with respect to whether we should admit this exhibit on  
12 economic impact. With respect to the particular exhibit  
13 on economic impact, I think it's clear that it's relevant  
14 to this proceeding. And, as Mr. Roth has pointed out, the  
15 technical rules of evidence do not apply, but relevance is  
16 always -- does apply to administrative proceedings.

17 If the Applicant had wanted to make this  
18 report into testimony, it had the opportunity to do so  
19 when it filed its supplemental testimony. It is too late  
20 in the proceeding now to offer the authors of that report  
21 as witnesses in this proceeding.

22 However, I think what the -- the issue  
23 is not so much one of whether the document should be  
24 admitted into evidence, it's how much weight we should

{SEC 2008-04} [Day 1] {03-09-09}

34

1 give it. Clearly, the document has not been subject to  
2 discovery. There will not be a witness here supporting  
3 it, and that witness will not be subject to  
4 cross-examination. So, it does not merit the weight that  
5 other prefiled testimony, subject to discovery and  
6 cross-examination, would be given.

7 I think we addressed this issue a number  
Page 28

8 of times in the Lempster proceeding with respect to  
9 reports that were filed by various witnesses. I'm going  
10 to allow the document into the record. But note for the  
11 record, and for the members of the Committee, that the  
12 document cannot be given the same weight as testimony that  
13 is sworn to and provided in the proceeding.

14 I have one other procedural issue. And,  
15 this goes to the mitigation agreement that I understand  
16 has been reached among the Applicant, Appalachian Mountain  
17 Club, and the Department of Fish & Game. As I understand  
18 it, the outline of that agreement is substantially  
19 provided in the testimony of the Gravel and Pelletier  
20 panel. But I'm concerned about how the -- what's the  
21 status of the final arrangement, and how are we going to  
22 address that fairly in this proceeding? Mr. Mullholand.

23 MR. MULLHOLAND: Mr. Chairman, thank  
24 you. And, indeed, this morning we did solidify the final

{SEC 2008-04} [Day 1] {03-09-09}

35

1 numbers of the agreement between the Applicant and Fish &  
2 Game and AMC, in terms of acres preserved. Unfortunately,  
3 we haven't had a chance to have an agreement signed, and  
4 we expect to do that tonight and then tomorrow morning,  
5 and then submit that agreement, once it's signed, to the  
6 Committee here. But, in the meantime, what we'd like to  
7 present, and I believe AMC is on board with this, is that  
8 we'd like to reserve the right to cross-examine the panel  
9 this morning, the Decker/Lyons panel, with the  
10 understanding that it probably won't be necessary. But,  
11 until we have an agreement signed, we feel like we want to  
12 reserve the right to create a record to support some sort

13 of mitigation. And, without the ability to cross-examine  
14 them, we wouldn't be able to do that.

15 So, let me just restate what we're  
16 asking. We're asking to reserve the right to recall the  
17 Decker/Lyons panel in the future, contingent on not having  
18 a signed agreement tonight. But we anticipate that it  
19 won't be necessary.

20 CHAIRMAN GETZ: Anyone else want to  
21 speak to this issue? Dr. Publicover.

22 DR. PUBLICOVER: Yes. We would support  
23 that. We are hopeful, I think, of having the agreement  
24 tomorrow. But, until such time as there is a signed

{SEC 2008-04} [Day 1] {03-09-09}

36

1 agreement entered into the record, we have to proceed as  
2 if there will be no agreement. And, that would  
3 substantially affect the way we cross-examine Mr. Lyons.  
4 If our only chance to cross-examine him is this morning,  
5 we have to proceed with the line of questioning assuming  
6 there is no agreement. That line of questioning may  
7 essentially become moot if an agreement is submitted  
8 tomorrow. And, we feel it would be a waste of time, of,  
9 you know, the Committee's time and everyone else's time,  
10 to have to question him on issues that, again, may be  
11 rendered moot tomorrow. So, we would support the ability  
12 to -- the option to recall the Lyons/Decker panel  
13 tomorrow, after it becomes clear that a settlement  
14 agreement either will or will not be signed.

15 MR. MULLHOLLAND: Or Wednesday.

16 DR. PUBLICOVER: Or Wednesday.

17 CHAIRMAN GETZ: Anyone else?

18 Ms. Linowes.

19 MS. LINOWES: Mr. Chairman, if we could  
20 -- if Attorney Mulholland could at least state, in its  
21 briefest form, the narrow aspect of the habitat protection  
22 that's covered in the agreement, to make sure that some of  
23 the other questions that are going to be directed at the  
24 various parties or witnesses relating to wetlands,

{SEC 2008-04} [Day 1] {03-09-09}

37

1 bird/bat issues, in fact, are not covered. It's just, I  
2 would like -- so that we are not talking about all  
3 wildlife impacts, as far as this mitigation plan is --

4 CHAIRMAN GETZ: Okay, let's address this  
5 issue this way. I think we need to proceed with the  
6 panel, the Lyons/Decker/Mandli panel. At the end of  
7 today, before we recess for the day, we're going to have  
8 to take stock to see how much progress we've made with the  
9 witnesses. We're going to have to make some decisions  
10 about what we're going to do, who's going to appear when  
11 during the remainder of the week. So, I think, for  
12 cross-examination purposes today, there will be an  
13 opportunity to recall these witnesses in the manner  
14 proposed by Mr. Mulholland and Dr. Publicover. And, with  
15 respect to Ms. Linowes' question, rather than handling  
16 that on the record, I suggest that, at the lunch recess,  
17 afternoon recess, or at the end of the day, the parties  
18 discuss your proposal, so there's a meeting of the minds  
19 as much as possible about the extent of the mitigation.

20 One way to handle this may be just to  
21 deal with it later in the week, Friday or Monday, or  
22 Wednesday or Friday, depending on if the agreement is

23 memorialized, and so we have a better understanding of  
24 what the parameters of the mitigation plan are. Ms.

{SEC 2008-04} [Day 1] {03-09-09}

38

1 Keene?

2 MS. KEENE: Yes. The only question I  
3 have is, there's two motions that are still sitting out  
4 there because the settlement agreement hadn't been  
5 concluded. And, those are -- are those motions now gone?

6 CHAIRMAN GETZ: Well, it depends. Are  
7 you talking about the Motion in Limine and the Motion to  
8 Strike?

9 MS. KEENE: Yes.

10 CHAIRMAN GETZ: Yes, I ruled on that  
11 from the Bench at the prehearing conference last week.  
12 And, both of the motions by the Applicant were denied.

13 MS. KEENE: Okay.

14 CHAIRMAN GETZ: So, we will be hearing  
15 the testimony from the Fish & Game witnesses. Ms.  
16 Linowes.

17 MS. LINOWES: Mr. Chairman, I have a  
18 procedural question regarding another line of questioning  
19 having to do with the system impact study. And, I'm not  
20 sure if we're going to have to go into nonpublic for that.  
21 And, my thinking is we will not have to. But I just  
22 wanted to give you a heads-up to see how you wanted to  
23 handle that.

24 CHAIRMAN GETZ: And, that would occur

{SEC 2008-04} [Day 1] {03-09-09}

39

1 today?

2 MS. LINOWES: Yes, for this panel.

3 CHAIRMAN GETZ: For this panel.

4 MR. ROTH: Similarly, I would have  
5 questions that may require a discussion of confidential  
6 financial information for this panel today.

7 CHAIRMAN GETZ: Okay. Well, again, that  
8 was an issue that was discussed at the prehearing  
9 conference last week. What I suggest is, if we can -- if  
10 we wrap up the preliminary matters, and then turn to  
11 cross-examination, that, during the lunch recess, discuss  
12 with the other parties and discuss with counsel for the  
13 Committee to make sure that everyone has an understanding  
14 of how to proceed in the handling of confidential  
15 materials.

16 MR. ROTH: I have, literally, or not --  
17 perhaps, literally, my first question is going to involve  
18 confidential financial information.

19 CHAIRMAN GETZ: And, the way you're  
20 saying that, and that has to be your first question?

21 MR. ROTH: No, but it's going to be  
22 there before too long.

23 MR. IACOPI NO: It would be easier if we  
24 could have all of the lines of questioning that are going

{SEC 2008-04} [Day 1] {03-09-09}

40

1 to deal with confidential information reserved for a  
2 particular period of time, so we only have to go into  
3 nonpublic session once.

4 MR. ROTH: Okay.

5 MR. IACOPI NO: Instead of having all of

6 these good people who have come here trucking in and out  
7 of the room.

8 MR. ROTH: Okay. And, I'll try to  
9 sculpt my approach, too.

10 CHAIRMAN GETZ: Thank you. That would  
11 be helpful to the process. Dr. Publicover?

12 DR. PUBLICOVER: Yes. I just want to be  
13 clear that you have said we will have the right to recall  
14 Lyons and Decker?

15 CHAIRMAN GETZ: That's correct.

16 DR. PUBLICOVER: Thank you.

17 MR. ROTH: I have another procedural  
18 issue.

19 CHAIRMAN GETZ: Yes, sir.

20 MR. ROTH: One of my witnesses,  
21 Mr. Trevor Lloyd-Evans, is unavailable until the 19th.  
22 And, I would like to be able to call him for his  
23 cross-examination and to defend his testimony at the  
24 session that's being scheduled for March 19th. And, I ask

{SEC 2008-04} [Day 1] {03-09-09}

41

[WITNESS PANEL: Decker|Lyons|Mandli]

1 for the Chair's permission to do that, instead of in the  
2 order that was otherwise prescribed at the prehearing  
3 conference.

4 CHAIRMAN GETZ: Well, let's include that  
5 as one of the issues that we're going to have to address  
6 at the end of the day, when we see how much progress we've  
7 made on other witnesses, to figure out who's testifying  
8 when. So, we'll defer that until later in the day.

9 Anything else, before we hear from the  
10 first panel?

11 GRP-DAY1.txt  
(No verbal response)

12 CHAIRMAN GETZ: Okay. Hearing nothing,  
13 then, Mr. Patch, if you could bring your witnesses forward  
14 and have them sworn in.

15 (Whereupon Pip Decker, Mark Lyons and  
16 Daniel Mandli were duly sworn and  
17 cautioned by the Court Reporter.)

18 PIP DECKER, SWORN

19 MARK LYONS, SWORN

20 DANIEL MANDLI, SWORN

21 DIRECT EXAMINATION

22 BY MR. PATCH:

23 Q. Okay. Good morning. Mr. Decker, I'm going to start  
24 with you. Could you please state your name for the  
{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli] 42

1 record.

2 A. (Decker) My name is Pip Decker. My address is 200  
3 Portland Street, Lancaster, New Hampshire 03584. I'm a  
4 Project Manager for Noble Environmental Power and for  
5 the Granite Reliable Power Windpark.

6 Q. Are you the same Pip Decker who submitted prefiled  
7 testimony in this docket, which has been premarked as  
8 "Petitioner's Exhibit 3"?

9 A. (Decker) Yes.

10 MR. PATCH: And, just for the Committee,  
11 Mr. Decker's prefiled testimony is contained in Volume 1,  
12 in Tab (a).

13 BY MR. PATCH:

14 Q. Did you also submit supplemental prefiled testimony in  
15 this docket, which has been marked as "Petitioner's

16 Exhibit 4"?

17 A. (Decker) Yes.

18 MR. PATCH: And, for the Committee,  
19 that's Volume 1a, Tab (a).

20 BY MR. PATCH:

21 Q. Do you have any corrections or updates to either your  
22 prefiled or supplemental prefiled testimony?

23 A. (Decker) Yes, I have four corrections. They're really  
24 just updates. The first is the original prefiled  
{SEC 2008-04} [Day 1] {03-09-09}

43

[WITNESS PANEL: Decker|Lyons|Mandli]

1 testimony that I supplied. On Page, let's see, it  
2 would be Page 12, Line 2, of my prefiled testimony,  
3 where I state that the "99-megawatt project would be  
4 sufficient to power approximately 35,000 homes." It  
5 should be reflected that is actually "40,000 homes"  
6 compared with the Application that we submitted to the  
7 SEC.

8 The second correction, or actually  
9 update, rather, is on my supplemental testimony,  
10 discusses the status of the FAA, and that we would be  
11 submitting FAA permits. We have received those permits  
12 from the Federal Aviation Administration.

13 The third, I talk -- discuss the timing  
14 of construction. This is found in, let's see, on Page  
15 8 of my prefiled testimony, where I state that "It is  
16 anticipated that the Project will be fully constructed  
17 in 2009, with the exception of the wind turbines  
18 themselves, which will arrive in the Spring of 2010."  
19 We will be -- The timing of this is subject to  
20 obtaining construction financing. And, I would ask

21 that those questions be directed to Chris Lowe and Jeff  
22 Wood, who will be testifying on Monday.

23 Finally, we, in the supplemental  
24 testimony that I provided, we said that "we will be  
{SEC 2008-04} [Day 1] {03-09-09}

44

[WITNESS PANEL: Decker|Lyons|Mandi]

1 providing an alternatives analysis of windparks,  
2 potential windparks in New Hampshire, as part of our  
3 compliance to the United States Army Corps process. We  
4 have done so. And, we can file that as well. We  
5 recently did that I believe last week.

6 Q. With these corrections and updates that you just  
7 described, if you were asked the same questions  
8 contained in Exhibits 3 and 4 today under oath, would  
9 your answers be the same as is contained in those  
10 exhibits?

11 A. (Decker) Yes.

12 Q. Thank you. Mr. Lyons, please state your name.

13 A. (Lyons) Mark Lyons.

14 Q. And, are you the same Mark Lyons who submitted  
15 supplemental testimony in this docket, which has been  
16 marked as "Petitioner's Exhibit 4"?

17 A. (Lyons) Yes, I am.

18 MR. PATCH: And, again, for the  
19 Committee, that's Volume 1a, Tab (a).

20 WITNESS LYONS: Correct.

21 BY MR. PATCH:

22 Q. Are you also adopting the testimony of Charles Reading  
23 that had been marked as "Exhibit 3", and was  
24 co-sponsored with Pip Decker?

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 A. (Lyons) Yes, I am.
- 2 Q. Do you have any corrections or updates to either your  
3 supplemental testimony or to the prefilled direct  
4 testimony?
- 5 A. (Lyons) Well, I have one update, as the Chairman had  
6 noted earlier, that I testified in the supplemental  
7 testimony, on Page 3, at Line 8, that we were engaged  
8 in a negotiation with Fish & Game Department of New  
9 Hampshire and with AMC, to agree upon a mitigation plan  
10 for high elevation habitat. And, we have reached an  
11 agreement in principle, subject to documentation, which  
12 we expect over the course of the next 24 hours. And,  
13 at such time, that would necessitate updating and  
14 revising some testimony of Adam Gravel and Steve  
15 Pelletier. And, we will make those revisions  
16 accordingly.
- 17 Q. With the update that you just described, if you were  
18 asked the same questions contained in Exhibits 3 and 4  
19 today under oath, would your answers be the same?
- 20 A. (Lyons) Yes.
- 21 Q. Mr. Mandli, please state your name.
- 22 A. (Mandli) Daniel Mandli.
- 23 Q. And, are you the same Daniel Mandli who submitted  
24 prefilled testimony in this docket, which has been  
{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

1 marked as "Petitioner's Exhibit 7"?

2 A. (Mandli) Yes, I am.

3 MR. PATCH: And, for the Committee,  
4 that's Volume 1, Tab (c).

5 BY MR. PATCH:

6 Q. Did you also submit supplemental prefiled testimony in  
7 this docket, which has been marked as "Petitioner's  
8 Exhibit 8"?

9 A. (Mandli) Yes, I did.

10 MR. PATCH: And, again, for the  
11 Committee, that's Volume 1a, Tab (c). Mr. Chairman, I  
12 understand the ground rules which you've laid out, and I'm  
13 happy to do this either way. But there was an incident  
14 that occurred on Friday, at a Noble windpark in Altona,  
15 which I think it would be useful if Mr. Mandli provided a  
16 brief update of that at this point in time. But I'm happy  
17 to handle that however you would like.

18 CHAIRMAN GETZ: Well, it's a very  
19 mysterious lead-in. But is there any objection to --  
20 Ms. Linowes.

21 MS. LINOWES: Yes, Mr. Chairman. I  
22 fully plan to explore that with Mr. Mandli now, and he  
23 will have an opportunity to bring the information forward  
24 at that time. I'd rather that, than open the floor to the

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

47

1 panel, since this is cross-examination time.

2 MR. ROTH: I agree.

3 MS. KEENE: I agree.

4 MR. ROTH: I was also intending to  
5 cross-examine on that issue. And, I think that's probably  
6 the appropriate point to bring it up.

7 CHAIRMAN GETZ: Okay. And, that issue  
8 is -- could you describe what happened?

9 MR. ROTH: One of their turbines fell

10 down.

11 CHAIRMAN GETZ: Okay. All right. Then,  
12 let's -- we'll let it arise during cross-examination. It  
13 seems like we'll get the information on the record and the  
14 witnesses will have an opportunity to address it. Okay.  
15 Anything further?

16 MR. PATCH: Just I think one or two more  
17 questions.

18 BY MR. PATCH:

19 Q. Mr. Mandli, do you have any corrections or updates to  
20 either your prefiled or supplemental prefiled  
21 testimony?

22 A. (Mandli) Yes, I do. There's four different updates.  
23 One of them, the first one has to do with the fact  
24 that, since we've prefiled the testimony, we've added  
{SEC 2008-04} [Day 1] {03-09-09}

48

[WITNESS PANEL: Decker|Lyons|Mandli]

1 more wind turbines on line. We're now operating 726  
2 megawatts of wind capacity. We went from -- We're  
3 operating 484 turbines now. And, that's the first one.

4 We are operating our 24-hour Monitoring  
5 Center in Plattsburgh, which monitors all windparks 24  
6 hours a day/seven days a week. Each of the projects  
7 that were mentioned in the prefiled testimony are all  
8 operating now, that would be Bliss, which is western  
9 New York, Clinton and Ellenburg, which are in northern  
10 New York. And, all three of those projects are running  
11 in the high 90 percentage -- percentile for  
12 availability.

13 So, the biggest thing is that, since the  
14 prefiled testimony, we've actually increased from 282

15 megawatts of actual operating capacity, to 726. With  
16 that increase of operating capacity, we've actually  
17 doubled the size of our Operations team. During the  
18 prefiled testimony, we had 30, now we have 60 wind  
19 professionals that work in northern New York, western  
20 New York, and, of course, Texas, where we've got a  
21 project in west Texas. That's it.

22 Q. Okay. Mr. Mandli, with the corrections and updates  
23 that you just described, if you were asked the same  
24 questions contained in Exhibit 7 and 8 under oath

{SEC 2008-04} [Day 1] {03-09-09}

49

[WITNESS PANEL: Decker|Lyons|Mandli]

1 today, would your answers be the same?

2 A. (Mandli) Yes, they would be the same.

3 MR. PATCH: Okay. The witnesses are  
4 available for cross.

5 CHAIRMAN GETZ: Thank you. Mr.  
6 Mullholand, questions?

7 MR. MULLHOLAND: Mr. Chairman, we'd like  
8 to reserve our cross till tomorrow, if possible. Thank  
9 you.

10 CHAIRMAN GETZ: I'm not sure if it's  
11 going to be tomorrow, but you may reserve your cross. Dr.  
12 Publicover.

13 DR. PUBLICOVER: Yes, I have a few  
14 questions on decommissioning, but do reserve the right to  
15 question the panel on other issues at a later date. And,  
16 I think these are probably most appropriately directed to  
17 Mr. Lyons, but if somebody else is better equipped to  
18 answer, feel free to do so.

20 BY DR. PUBLI COVER:

21 Q. The decommissioning plan, the current decommissioning  
22 plan is set forth in Appendix 53 of the supplement to  
23 the Application, is that correct?

24 A. (Lyons) Yes.

{SEC 2008-04} [Day 1] {03-09-09}

50

[WITNESS PANEL: Decker|Lyons|Mandi]

1 Q. Now, it specifies that the amount of the salvage fund  
2 will be determined based on the cost of -- the cost of  
3 removal and remediation of the site, minus the salvage  
4 value of the components. Can you describe how the  
5 salvage value was calculated?

6 A. (Lyons) The salvage value would be calculated by  
7 independent experts in the area that are familiar with  
8 the market for the various salvage components,  
9 including electronics, and primarily the steel in the  
10 towers.

11 Q. Okay. So, it's a combination of scrap value and  
12 components, component value?

13 A. (Lyons) Yes. When we say "salvage value", I mean, some  
14 of the parts I imagine would be resalable as components  
15 and others as raw material.

16 Q. Okay. Is that -- Are those values determined just at  
17 one point in time?

18 A. (Lyons) No, we would propose that the -- that all costs  
19 of decommissioning, including the cost of salvage value  
20 as a net to the decommissioning costs, be updated over  
21 time, so that they be as accurate as possible.

22 Q. What would be the schedule for updating?

23 A. (Lyons) That's a matter that we've been discussing with  
24 Coos County. And, we're happy to do it as often as

[WITNESS PANEL: Decker|Lyons|Mandi i]

- 1 they think is necessary.
- 2 Q. Okay. Now, in terms of, for example, you're aware our
- 3 Exhibit 3 is the decommissioning conditions for the
- 4 Lempster Project?
- 5 A. (Lyons) Yes.
- 6 Q. And, the Lempster Project required that the fund be
- 7 re-evaluated and updated every five years.
- 8 A. (Lyons) Uh-huh.
- 9 Q. Would that be an appropriate schedule?
- 10 A. (Lyons) That would be acceptable to us, certainly.
- 11 Q. Okay. And, within a five year period, it's likely that
- 12 the scrap value could fluctuate considerably, up or
- 13 down. Would it be appropriate to use, as your estimate
- 14 of scrap value, for example, the low point, the low
- 15 value over the previous five year period, so that you
- 16 have a conservative estimate?
- 17 A. (Lyons) I suppose that would be. You know, we'd have
- 18 to look at the overall plan. I think that -- I think
- 19 that it would be appropriate to make a more frequent
- 20 update of costs and values in the out years, when
- 21 you're getting closer to a point in time when
- 22 decommissioning might actually become a possibility.
- 23 Q. Okay.
- 24 A. (Lyons) But, in any case, you know, our concern, I

[WITNESS PANEL: Decker|Lyons|Mandi i]

- 1 think we would share your concern and the County's
- 2 concern, that these costs be as accurate as possible

- 3 from time to time, without unnecessary updating.
- 4 Q. Okay. But you believe it would be appropriate for the
- 5 SEC to include, as a condition of the Application, a
- 6 required updating schedule?
- 7 A. (Lyons) Yes.
- 8 Q. All right. Now, as I understand it, your schedule for
- 9 establishing and paying into the decommissioning fund
- 10 provides for the fund to be built up with the payment
- 11 of 20 percent of the amount every year between years 11
- 12 and 15.
- 13 A. (Lyons) Yes.
- 14 Q. Is that correct?
- 15 A. (Lyons) Yes.
- 16 Q. All right. Are you aware that the Lempster certificate
- 17 required the fund to be fully in place prior to the
- 18 beginning of construction?
- 19 A. (Lyons) I am aware of that, yes.
- 20 Q. All right. Now, our Exhibit 4 is the decommissioning
- 21 conditions established by Maine Land Use Regulation
- 22 Commission for the Stetson Mountain Project, the 57
- 23 megawatt project in eastern Maine. And, that is
- 24 included as our Exhibit 4. That required their

{SEC 2008-04} [Day 1] {03-09-09}

53

[WITNESS PANEL: Decker|Lyons|Mandi]

- 1 decommissioning fund to be built up over a 15 year
- 2 period, beginning in year one. Do you disagree with
- 3 that?
- 4 A. (Lyons) I don't disagree that that is the condition in
- 5 Stetson. And, I don't think that it is necessarily an
- 6 unreasonable approach.
- 7 Q. Okay. And, our Exhibit 5 is the decommissioning

8 conditions established -- required by the Land Use  
9 Regulation Commission for TransCanada's Kibby Mountain  
10 Project. Their decommissioning fund, their conditions  
11 required that 50 percent of the fund be in place at the  
12 end of year one, and that it be fully funded at the end  
13 of year 10.

14 A. (Lyons) Uh-huh.

15 Q. Do you disagree with that?

16 A. (Lyons) I don't disagree that that's the condition of  
17 Kibby.

18 Q. Okay. I just didn't know if you wanted to see the  
19 exhibit. So, of these other major projects, Lempster  
20 would be fully funded prior to construction; Kibby  
21 would be fully funded at the end of year 10; and  
22 Stetson would be approximately two-thirds funded by the  
23 end of year 10. Yet, you do not start funding until  
24 year 11. Why is that?

{SEC 2008-04} [Day 1] {03-09-09}

54

[WITNESS PANEL: Decker|Lyons|Mandi]

1 A. (Lyons) That was based on a proposal that we had seen  
2 in the State of Maine. Again, we're in the process of  
3 discussing this with Coos County, who we believe is  
4 sort of the real party in interest on this, which sort  
5 of parallels the Town of Lempster in the Lempster  
6 proceeding. So, we thought it was a matter for  
7 discussion with Coos County.

8 As far as the timing of the funding, we  
9 don't have a strong position necessarily regarding our  
10 proposal. Our view, however, is that, as in the case  
11 of Kibby and Stetson, we think that it would be  
12 unnecessary to tie up large sums of money in the early

13 years, when decommissioning is highly unlikely. So,  
14 we're simply proposing that the funding of the -- that  
15 the decommissioning security coincide with what it  
16 would probably be a schedule, you know, for the actual  
17 decommissioning to take place. Which is to say, not  
18 all up front, but at some reasonable schedule over  
19 time, and to make sure that the -- as much as possible,  
20 to make sure that sufficient funds are in place at such  
21 point in time as decommissioning can be expected to  
22 occur.

23 Q. Okay. But you would not be opposed to conditions that  
24 required a funding schedule that was more advanced than  
{SEC 2008-04} [Day 1] {03-09-09}

55

[WITNESS PANEL: Decker|Lyons|Mandi]

1 what is currently proposed?

2 A. (Lyons) Not more advanced, but, again, our chief  
3 concern is that we would -- we would have it happen  
4 over time, and not all at once.

5 Q. All right. Would you agree that there are other  
6 parties besides the Coos County Commissioners that have  
7 an interest in how the decommissioning is funded?

8 A. (Lyons) Clearly.

9 Q. Okay. When it was originally proposed that funding not  
10 begin till year 11, am I correct in understanding that  
11 the Federal Production Tax Credit applies to the first  
12 ten years of the Project?

13 A. (Lyons) I believe that's the case.

14 Q. Okay. And, is there any relation between the  
15 Production -- the ten year Production Tax Credit and  
16 the beginning -- the original proposal to begin funding  
17 in year 11?

- 18 A. (Lyons) No, that was purely coincidence.
- 19 Q. Okay. And, let me just ask, though it's unlikely, what
- 20 happens if the Project needs to be decommissioned
- 21 before the fund is fully funded?
- 22 A. (Lyons) I can't imagine that that would be the case.
- 23 But, again, I think, you know, we would agree that
- 24 funds should be available, in sufficient amount to
- {SEC 2008-04} [Day 1] {03-09-09}

56

[WITNESS PANEL: Decker|Lyons|Mandi]

- 1 decommissioning, at such time as decommissioning needs
- 2 to take place. The trade-off is tying up large sums of
- 3 money unnecessarily, versus having it available when
- 4 it's needed. I can't imagine a scenario where a
- 5 windpark would need to be decommissioned prior to the
- 6 expected useful life of the machinery.
- 7 Q. Given that, I could say it was unlikely, but I could
- 8 imagine a scenario: Year 11, Noble goes bankrupt. At
- 9 the same time, a hurricane comes through blows down
- 10 most of the turbines. Whoever acquires the Company's
- 11 assets through bankruptcy decides it is not
- 12 economically viable to rebuild the Project. That's an
- 13 unlikely but possible scenario. So, what happens if
- 14 the decommissioning fund is not fully established at a
- 15 time decommissioning is needed? Would decommissioning
- 16 essentially go undone?
- 17 A. (Lyons) Well, it sounds like an insurable event to me.
- 18 So, I imagine insurance would cover the damage.
- 19 Q. Is there anything in the record that specifies that
- 20 insurance would be available to carry out
- 21 decommissioning if the fund was not fully funded?
- 22 A. (Lyons) Not to my knowledge, no.

GRP-DAY1.txt  
DR. PUBLICOVER: All right. Thank you.

23  
24

No further questions.

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandi]

57

1

WITNESS LYONS: Thank you.

2

CHAIRMAN GETZ: Mr. Gabler, do you have

3

questions for the panel.

4

MR. GABLER: No questions.

5

CHAIRMAN GETZ: Mr. Seiler, I note that

6

you're here. You can make your appearance for the record.

7

MR. SEILER: Yes. I'm Farrell Seiler.

8

I'm Chairman of the New Hampshire Wind Energy Association.

9

CHAIRMAN GETZ: Thank you. And, you

10

have no questions for this panel?

11

MR. SEILER: No.

12

CHAIRMAN GETZ: Ms. Keene?

13

MS. KEENE: No.

14

CHAIRMAN GETZ: Mr. Odell?

15

MR. ODELL: Yes, I have one question.

16 BY MR. ODELL:

17

Q. I've heard about the costs of decommissioning and

18

removal of steel and electronics, but I heard nothing

19

about costs that might be relevant to removal of the

20

concrete tabs or the bunkers that the wind turbines

21

would be placed on, or would they just stay there?

22

CHAIRMAN GETZ: Mr. Lyons.

23 BY THE WITNESS:

24

A. (Lyons) Our proposal is that all underground structures

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandi]

58

1

would be removed to 2 feet below grade. And, those --

2 And, the costs of those removal will be in our cost  
3 estimate, developed as part of a final plan.

4 CHAIRMAN GETZ: And, Ms. Linowes?

5 MS. LINOWES: Yes, Mr. Chairman. I have  
6 exhibits that I would like to hand to the panel, if I may?

7 CHAIRMAN GETZ: Please. Ms. Linowes,  
8 are these documents that have already been marked?

9 MS. LINOWES: Yes, Mr. Chairman. I  
10 brought them today. And, they have been distributed to  
11 the parties. If there are parties that do not have them,  
12 please let me know. I do have copies. There are five  
13 exhibits there, of which I'm only going to be referencing  
14 four for this panel, but I thought it would easier just to  
15 give them all. And, they're marked all "IWA", with an "X"  
16 for cross-examination, and then it should be 1, 2, 4, 6,  
17 and 9. And, I apologize for the randomness of those  
18 numbers.

19 MR. IACOPI NO: Mr. Chairman, they're not  
20 in the record as of yet. They were just brought in this  
21 morning.

22 CHAIRMAN GETZ: Okay. Well, then let's  
23 get copies before we proceed.

24 (Exhibits IWA-X-1, IWA-X-2, IWA-X-4,  
{SEC 2008-04} [Day 1] {03-09-09}

59

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 IWA-X-6 and IWA-X-9 were premarked just  
2 prior to commencement of the hearing.)

3 MR. IACOPI NO: I noticed that the  
4 Chairman was looking at the list for those. The list was  
5 created yesterday.

6 MS. LINOWES: My apologies, Mr.  
Page 49

7 Chairman. I anticipated six members on the Committee, and  
8 there may not be enough for everyone.

9 CHAIRMAN GETZ: We're sharing. We're  
10 fine.

11 MS. LINOWES: Thank you.

12 CHAIRMAN GETZ: Please proceed.

13 MS. LINOWES: In my first set of  
14 questions, I have quite a number to go through, the first  
15 set will be for Mr. Mandli. But please answer, if anyone  
16 else has responses, I'd appreciate full and complete  
17 answers.

18 BY MS. LINOWES:

19 Q. Mr. Mandli, you had mentioned in your prefiled  
20 testimony of February 23rd that the -- and this is  
21 Page 2, Line 22, "The New York 07 projects, which  
22 include Bliss, Clinton and Ellenburg projects, are  
23 operating at availability levels in the high 90  
24 percentile." And, I believe you restated that again

{SEC 2008-04} [Day 1] {03-09-09}

60

[WITNESS PANEL: Decker|Lyons|Mandli]

1 today, is that correct?

2 A. (Mandli) That is. That is correct, yes.

3 Q. By "07", by the way, what does that mean?

4 A. (Mandli) The -- Come back? Can you repeat the  
5 question? 07 projects?

6 Q. Yes.

7 A. (Mandli) The 07 projects were the class year that the  
8 projects went to the actual class study. So, we had  
9 Clinton, Ellenburg and Bliss that were part of our '07  
10 portfolio. They actually came on line in '08.

11 Q. Okay. Thank you. So, they were under construction  
Page 50

12 beginning in '07?

13 A. (Mandli) Yes. Yes.

14 Q. And, can you explain what you mean by "availability  
15 levels"?

16 A. (Mandli) The main criteria for measuring the  
17 efficiencies of the windpark is availability. You want  
18 to have the turbines available to run when the wind is  
19 there. So, what we do is we track the actual up-time  
20 that a turbine has, and it's called "availability".  
21 So, it's a percentage of up-time for the turbines. So,  
22 when I talk about "high 90s availability", it's total  
23 hours, minus the downtime, would be the percentage of  
24 up-time or availability.

{SEC 2008-04} [Day 1] {03-09-09}

61

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. Okay. So, what I did, and I'm not going to share the  
2 documents, I went to the ISO, the New York ISO queue,  
3 and also looked at four quarters of FERC data,  
4 transactional data --

5 A. (Mandli) Uh-huh.

6 Q. -- for four of your projects. That would Ellenburg,  
7 Clinton, Altona and Chateaugay. Those four projects  
8 are in Upstate New York?

9 A. (Mandli) Can you repeat the four projects that --

10 Q. Ellenburg, Clinton, Altona and Chateaugay.

11 A. (Mandli) That is correct. They're all up in northern  
12 New York, yes.

13 Q. And, the information I have is that Ellenburg came on  
14 line March 31st, '08?

15 A. (Mandli) Yes.

16 Q. Clinton -- According to, again, the FERC data, that's

17 when you first started reporting production?

18 A. (Mandli) That's when it first started producing test  
19 power was in March, yes.

20 Q. Okay.

21 A. (Mandli) Of '08, yes.

22 Q. Clinton, April 8th, '08?

23 A. (Mandli) That is correct.

24 Q. Altona, December 23rd, '08?

{SEC 2008-04} [Day 1] {03-09-09}

62

[WITNESS PANEL: Decker|Lyons|Mandli]

1 A. (Mandli) Yes.

2 Q. And, Chateaugay, November 26, '08?

3 A. (Mandli) Those are correct dates, yes.

4 Q. And, looking at your FERC data, it appears you had a  
5 significant failure on the Clinton and Ellenburg  
6 projects, where they were down beginning  
7 September 28th, and not on line again until November  
8 24th, is that correct?

9 A. (Mandli) Begging your pardon, it wasn't a failure.  
10 That was actually work on the Ryan Substation, in order  
11 to be connected into the NYPA 230 lines in the north  
12 country. We had to take an outage. That included  
13 taking the Ryan Substation, which Clinton and Ellenburg  
14 and Chateaugay all transfer their power into the Ryan 2  
15 Substation.

16 Q. Okay. So, it was a substation that was down, but  
17 you're considering the turbines as still having been  
18 available?

19 A. (Mandli) The availability that we calculate is only  
20 when they're actually connected to the grid and  
21 available. No. So, those fall out of the availability

22 calculations for the turbines.

23 Q. What does that mean?

24 A. (Mandli) Because it was outside of the actual control  
{SEC 2008-04} [Day 1] {03-09-09}

63

[WITNESS PANEL: Decker|Lyons|Mandli]

1 of the turbine operator. Because it was a shutdown  
2 that was mandated for the collection system connection  
3 into the 230 lines in the north country.

4 Q. I just want to make sure I'm understanding here. Then,  
5 when you're saying that the turbines were "available in  
6 the high 90s", you are eliminating most of the month of  
7 November, all of the month of October, and a portion of  
8 September?

9 A. (Mandli) That is correct, because it was uncontrolled  
10 by the turbine operator. It was dictated by the  
11 NY-ISO, the NYPA, which is the transmission owner in  
12 the north country.

13 Q. Okay. So, it's not entirely clear what you mean -- an  
14 "availability" may not necessarily mean what other  
15 people are thinking. Is that fair to say?

16 A. (Mandli) The definition of "turbine availability" is  
17 the amount of time that the turbine is available when  
18 it's connected to the grid. And, if the grid is not  
19 there, then that doesn't get calculated in the turbine  
20 availability calculation.

21 Q. And, the problems with that substation had nothing to  
22 do with poor quality?

23 A. (Mandli) They did not have anything to do with poor  
24 quality. It had to do with the fact that we were

{SEC 2008-04} [Day 1] {03-09-09}

64

1 connecting three projects into a three-ring bus,  
2 three-ring bus that connects into the NYPA 230s. And,  
3 there was also a segmentation of the 230 line between  
4 the Willis Substation, which is in -- a little west of  
5 Ryan, and then also the Plattsburgh Substation, which  
6 is in the Town of Plattsburgh. So, we actually,  
7 besides building a three-ring substation bus, we  
8 actually segmented the line and put relays into the 230  
9 line for NYPA, so that they could segment that line.

10 Q. When the turbines are shut down during icing  
11 conditions, is that factored into the availability  
12 numbers?

13 A. (Mandli) Yes, it is. That is a factored-in amount.  
14 And, we estimate a certain amount of downtime every  
15 year for icing. Of course, the summer months, you  
16 don't have any icing, but we estimate a certain  
17 percentage in time for downtime during the winter  
18 months.

19 Q. What is that number?

20 A. (Mandli) It's less than two percent of the total  
21 availability.

22 Q. That's what you're factoring in for the New York sites?

23 A. (Mandli) Yes, ma'am.

24 Q. And, what are you factoring in for this site?

{SEC 2008-04} [Day 1] {03-09-09}

65

[WITNESS PANEL: Decker|Lyons|Mandli]

1 A. (Mandli) Right now, I don't have those numbers, because  
2 I don't have the actual availability breakouts. But  
3 it's somewhere at less than two percent of the total  
4 availability.

- 5 Q. You're anticipating --
- 6 A. (Mandli) For the winter months.
- 7 Q. You're anticipating less icing conditioning -- icing
- 8 conditions will not have those turbines down very much?
- 9 A. (Mandli) I didn't say that we're not anticipating
- 10 icing. What I said is, we have an estimate of downtime
- 11 for icing. And, at this point, through 2008, we've had
- 12 two icing events in the north country.
- 13 Q. I'm sorry, what?
- 14 A. (Mandli) We've had two icing events in the north
- 15 country.
- 16 Q. And, where? North country, New York or North Country
- 17 --
- 18 A. (Mandli) That's northern New York, yes. And, which
- 19 would be the four projects we're talking about. The
- 20 same projects that are on that 230 collection system in
- 21 the northern New York corridor.
- 22 Q. And, how long did they last?
- 23 A. (Mandli) We had turbines down at Chateaugay was the
- 24 park that was mostly affected. It was down for maybe

{SEC 2008-04} [Day 1] {03-09-09}

66

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 five hours. And, then, the blades had let the ice off
- 2 enough so they could operate the turbines.
- 3 Q. And, that happened twice?
- 4 A. (Mandli) Once at Chateaugay and once at Ellenburg.
- 5 Q. Have you submitted any information to this Committee or
- 6 to the parties that substantiate your claims that the
- 7 turbines have been available at 90 percent or better?
- 8 A. (Mandli) I have not presented actual availability
- 9 calculations for the portfolio.

10 Q. So, it's just your saying that today then and in your  
11 testimony?

12 A. (Mandli) No, I report that to our investors and the  
13 owners, which have been the banks, on a monthly basis.

14 Q. But do you have anything that you can make available?

15 A. (Mandli) At present, I don't have that with me, no.

16 Q. Do you know much about the Vestas V90 or do you install

17 --

18 A. (Mandli) Yes, I do.

19 CHAIRMAN GETZ: Yes, just one moment.

20 Let's let Ms. Linowes finish her question before we jump

21 in, Mr. Mandli.

22 WITNESS MANDLI: I'm sorry.

23 BY MS. LINOWES:

24 Q. The Vestas, V, as in "Victor", 90 turbine --

{SEC 2008-04} [Day 1] {03-09-09}

67

[WITNESS PANEL: Decker|Lyons|Mandli]

1 CHAIRMAN GETZ: If you could just repeat

2 your question.

3 MS. LINOWES: Oh, sure.

4 BY MS. LINOWES:

5 Q. Have you installed the Vestas V90 turbine? Has Noble?

6 A. (Mandli) I have not installed the -- well, I'm not,

7 first of all, I'm not construction, so I haven't

8 installed any turbines --

9 Q. No.

10 A. (Mandli) -- for Noble. But we do not and have not

11 installed any V90s to present.

12 Q. Do you know what the failure rates on those turbines

13 are?

14 A. (Mandli) Actually, I know quite a bit about the Vestas

15 fleet, because I worked for Vestas for about -- the  
16 precursor to Vestas, I worked for NEG Micon for six  
17 years, and then a year with Vestas. And, I know quite  
18 a bit about the Vestas fleet, ma'am.

19 Q. Do you know of any that have been installed at 3,500  
20 foot elevations?

21 A. (Mandli) I do not know the actual locations that they  
22 have installed V90s. But I do know there's over a  
23 thousand V90s installed in the world at this current  
24 time.

{SEC 2008-04} [Day 1] {03-09-09}

68

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. But you don't know of any that have been installed in  
2 conditions that you'll be installing these?

3 A. (Mandli) Not the V90s, per se. But I do know that they  
4 have a lot of experience in West Virginia with another  
5 turbine that Vestas produces. It's a V82 high wind  
6 version, which is a 72 meter rotor, and that's in West  
7 Virginia.

8 Q. Are you legally required to report all turbine  
9 failures? And, is there any authority at the state  
10 level, a public service board, public utilities  
11 commission, site evaluation committee, where you report  
12 turbine failures?

13 A. (Mandli) I'm not sure what the laws say. But, when we  
14 do have a turbine failure, we report to the local  
15 communities, we report it to the NY-ISO, we report it  
16 to the transmission owners to let them know of an  
17 incident.

18 Q. So, if you have a blade break, lightning strike, gear  
19 failure, those are all reported?

20 A. (Mandli) If the event takes a turbine off line, we do  
21 report them to the NY-ISO, which is who we schedule our  
22 power through in New York.

23 Q. But, other than that -- other than that, do you report  
24 your failures to OSHA?

{SEC 2008-04} [Day 1] {03-09-09}

69

[WITNESS PANEL: Decker|Lyons|Mandli]

1 A. (Mandli) OSHA is, if there is a person or an injury  
2 involved, then it is reported to OSHA.

3 Q. So, is there any one place that any party can go and  
4 locate all of the failures at any of the wind projects  
5 you've put in place?

6 A. (Mandli) Are you asking the question "is there a  
7 location, a central repository, where every failure" --

8 Q. Yes. Right.

9 A. (Mandli) At this point, no, there is not.

10 Q. If I were to go to the NY-ISO, the New York-ISO, would  
11 that be considered confidential information?

12 A. (Mandli) I cannot answer that. I don't know. I'm not  
13 sure what information the NY-ISO makes public.

14 Q. Okay. So, again, with regard to the 90 percent  
15 availability --

16 A. (Mandli) We do not report turbine availability to the  
17 NY-ISO.

18 Q. One of the packages -- one of the exhibits I provided  
19 for you, it's IWA-X-2, and that, in the back of it, it  
20 should have a photograph as well. Do you see that?  
21 That's not actually attached to it.

22 A. (Mandli) Are you referring to Page 2 of 2 on Wind  
23 Action, "shocked by turbine collapse"?

24 Q. No, I'm sorry, this package here, the first article at

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 the top is "Problems at Wind Farm".
- 2 A. (Mandli) Yes, ma'am, I see that. But you said "the
- 3 last page there should be a photo."
- 4 Q. There should be a photograph that's actually not
- 5 attached to that. Do you see the photograph? It's
- 6 part of it.
- 7 A. (Mandli) Is this the photo?
- 8 Q. Yes, that's it.
- 9 A. (Mandli) Yes, I have that photo.
- 10 Q. That's part of that exhibit.
- 11 A. (Mandli) Okay.
- 12 Q. Do you recognize that photograph?
- 13 A. (Mandli) Yes, I recognize that photograph. Yes, ma'am.
- 14 Q. Do you want to speak to that?
- 15 A. (Mandli) That was what I was going to open up with
- 16 today, and we decided to wait. On Friday, the March
- 17 6th, we experienced an incident at one of our wind
- 18 farms in Altona, New York, which is about 20 miles west
- 19 of Plattsburgh. We currently have GE and our engineers
- 20 investigating the actual failure. One turbine
- 21 collapsed. That is what you're seeing in this picture.
- 22 I cannot report anything to do with cause at this
- 23 point, because it's in the process of being
- 24 investigated. We have had over 1,300 hours of

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 engineering time so far doing an investigation. We
- 2 started the investigation as soon as we got GE
- 3 engineers on site on Friday. And, as I mentioned

4 earlier, anything I say at this point, as far as cause,  
5 would be out of line, because they are still doing the  
6 investigation.

7 Q. That's okay. I'm not really interested in that. I'm  
8 mostly interested in the fact that -- now that turbine,  
9 I believe you'd agree that the Altona Project came on  
10 line on December 23rd?

11 A. (Mandli) Yes, ma'am.

12 Q. So, that turbine has been up for a couple of months?

13 A. (Mandli) That turbine has been up for a couple months,  
14 but actually didn't come on line until I believe it was  
15 the first week in January, the 3rd of January.

16 Q. Okay. The last article in that package of articles, I  
17 believe it's the last article, let me just double  
18 check.

19 CHAIRMAN GETZ: Well, actually, let me  
20 just interrupt for a second, Ms. Linowes, because I think  
21 we may get some confusion here. The package that I have  
22 looks like there's an Exhibit 1, that's a Mechanical  
23 Operating and Maintenance Manual.

24 MS. LINOWES: That's correct.

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

72

1 CHAIRMAN GETZ: And, then, there's an  
2 Exhibit 2, looks, in the title, "Problems at wind farm  
3 could derail acquisition".

4 MS. LINOWES: Correct.

5 CHAIRMAN GETZ: And, then, if I  
6 understand you correctly, you would like to introduce the  
7 single-page photograph as "Exhibit Number 3".

8 MS. LINOWES: That should -- No, that  
Page 60

9 should be part of this whole package.

10 CHAIRMAN GETZ: Okay. The photograph

11 then will be --

12 MS. LINOWES: It is part of 2.

13 CHAIRMAN GETZ: -- part 2 -- to

14 Exhibit 2. But, then, I have -- well, I see three

15 documents, one's Exhibit 4, one's Exhibit 6, and one's

16 Exhibit 9.

17 MS. LINOWES: Correct.

18 CHAIRMAN GETZ: Okay.

19 MS. LINOWES: The numbers are odd.

20 Mainly because I -- it doesn't mean that there is a 3, 5

21 and 7 and 8 missing. It just means that I didn't want to

22 accidentally duplicate a number. So, I picked some random

23 numbers to ensure uniqueness.

24 CHAIRMAN GETZ: Okay. All right. So,

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli] 73

1 with that in mind, now you're turning to which exhibit?

2 MS. LINOWES: I'm still on Exhibit 2.

3 CHAIRMAN GETZ: Okay. Thank you.

4 BY MS. LINOWES:

5 Q. And, at the last article of Exhibit 2, what this is, in

6 Exhibit 2, is a package of turbine failures that have

7 been reported in the United States in the last 18

8 months or less. And, the last article of that set, of

9 that package, is entitled "Residents shocked by wind

10 turbine collapse." Do you see that, Mr. Mandli?

11 A. (Mandli) I have that in front of me, yes, ma'am.

12 Q. That paragraph that I have, I have others, but the

13 photograph that I have provided for you does not show

14 the scorch marks around the turbine nacelle at the time  
15 that it hit, had contact with the ground or sometime  
16 thereabouts, it started on fire. Are you aware of  
17 that?

18 A. (Mandli) Yes, we are aware of that. Once the turbine  
19 failed, we actually secured the site. The nacelle was  
20 smoldering at the time when we got to the site. We  
21 called the fire department. And, the fire department  
22 actually put out the small fire in the nacelle.

23 Q. I'll bring the photographs with me tomorrow, so people  
24 could get a sense of how large the fire might have

{SEC 2008-04} [Day 1] {03-09-09}

74

[WITNESS PANEL: Decker|Lyons|Mandli]

1 been. But I have a question for you, how --

2 MR. PATCH: Mr. Chairman, I just -- I  
3 mean, if she's going to bring the photographs, I don't  
4 know if she's planning to use them to cross-examine some  
5 other panel other than these. So, I guess I'd like to  
6 reserve my right to object to those, if she's just going  
7 to show up and present them to the Committee.

8 MS. LINOWES: Mr. Chairman, my  
9 apologies. I'm just referring to the word "small" fire.  
10 I think that's a quantitative -- qualitative that may not  
11 be accurate.

12 CHAIRMAN GETZ: Okay. Though, it does  
13 raise the issues of authenticity, of a photograph taken  
14 off a website. And, it's one thing to use it to ask  
15 questions of the witness, does he know about this event.  
16 But, then, if you wanted to essentially try to introduce  
17 it in a direct way, to make some conclusion of fact based  
18 on that particular photograph, I think we may run into --

19 MS. LINOWES: Okay.

20 CHAIRMAN GETZ: -- some problems. But  
21 we'll address the issue when we get to it.

22 MS. LINOWES: Thank you. Sure, I  
23 understand. This, for the record, I spoke directly with  
24 the photographer. These were not just found on the Web.

{SEC 2008-04} [Day 1] {03-09-09}

75

[WITNESS PANEL: Decker|Lyons|Mandli]

1 BY MS. LINOWES:

2 Q. Mr. Mandli, what was the distance from the -- between  
3 the closest fire department and that failed turbine?

4 A. (Mandli) Ma'am, I don't know the actual distances from  
5 -- I know that two different fire departments  
6 responded. And, the actual distance from the fire  
7 departments, I don't have that answer.

8 Q. Do you know what the response time was?

9 A. (Mandli) I just -- No, I don't. I don't know the exact  
10 answer.

11 Q. What is the protocol in the event of a fire on a  
12 turbine?

13 A. (Mandli) What we do is we secure the site, make sure  
14 that all of our people and all personnel are far away,  
15 and we call the 911 number. And, prior to building any  
16 projects, we set up an Emergency Response Program, that  
17 includes fire, rescue, etcetera, clean-ups, spill  
18 clean-ups, when it comes to a spill. And, that's all  
19 determined as we're setting up a project.

20 Q. And, do you know if there was an oil spill on this  
21 turbine?

22 A. (Mandli) Yes, there was, ma'am.

23 Q. Do you know how many gallons were spilled?

24 A. (Mandi) No, I don't.

{SEC 2008-04} [Day 1] {03-09-09}

76

[WITNESS PANEL: Decker|Lyons|Mandi]

1 Q. Do you know how many gallons are in this GE turbine?

2 A. (Mandi) Yes, GE has essentially 100 gallons of gear  
3 oil that's in its gear box.

4 Q. So, there's potentially 100 gallons?

5 A. (Mandi) One hundred gallons of, yes, oil. Yes.

6 CHAIRMAN GETZ: Ms. Linowes, I just want  
7 to note for the record that Mr. Janelle has had to leave  
8 the hearing. He is at the Legislature involved in the --  
9 he's instrumental with the Department of Transportation's  
10 acquisition of Stimulus funds for the State of New  
11 Hampshire. He will be returning for the afternoon  
12 hearings. I just wanted to get that on the record. So,  
13 please continue.

14 MS. LINOWES: Mr. Chairman, while we're  
15 at this point, I have lots of questions. Please feel free  
16 to interrupt me at anytime when I start a new topic or  
17 whatever you feel that we should be breaking for lunch.

18 CHAIRMAN GETZ: Well, at some point,  
19 we're going to have to make that call. I guess, do you  
20 have an idea of whether it's -- how much cross you have?

21 MS. LINOWES: I can tell you the number  
22 of topics. I have six topics.

23 CHAIRMAN GETZ: But you expect --

24 MS. LINOWES: It's going to be at least

{SEC 2008-04} [Day 1] {03-09-09}

77

[WITNESS PANEL: Decker|Lyons|Mandi]

1 an hour.

2 CHAIRMAN GETZ: Okay. Well, let's --  
3 this may be a good time then to take the lunch recess.

4 MS. LINOWES: If I may finish up just on  
5 this last, I just have a couple of questions on this line  
6 of questioning, and then we can break at that time?

7 CHAIRMAN GETZ: Please.

8 MS. LINOWES: Thank you.

9 BY MS. LINOWES:

10 Q. Mr. Mandli, I want to draw your attention -- oh,  
11 actually, before I do that, in terms of this project  
12 site, what is the distance from the furthest turbine  
13 from Dummer Pond Road to a fire department?

14 A. (Decker) I mean, there's multiple fire departments.  
15 I'm sorry, there's multiple fire departments in Coos  
16 County. I believe there's a fire department in  
17 Colebrook. There's also a fire --

18 Q. I'm sorry, I can't hear you.

19 A. (Decker) There's a fire department in Milan and  
20 Colebrook. We've met with the Coos Commissioners, as  
21 well as the Town of Dummer, to establish, you know,  
22 what Dan had talked about, in terms of a emergency  
23 rescue or fire safety program. I do not have the  
24 distance calculated between Firehouse A and the

{SEC 2008-04} [Day 1] {03-09-09}

78

[WITNESS PANEL: Decker|Lyons|Mandli]

1 turbines.

2 Q. Would you agree that it's remote?

3 A. (Decker) I mean, it depends on the calculation.

4 Q. Do you know?

5 A. (Decker) I don't know what the answer is.

6 Q. Is it 10 miles?

7 A. (Decker) It could be. Let's see, 15 miles. I mean, if  
8 you want --

9 CHAIRMAN GETZ: Mr. Decker, if you could  
10 speak up please. Get closer to the mike.

11 BY THE WITNESS:

12 A. (Decker) There's, let's see, the fire department in  
13 Milan, I mean, could be 15 to 20 miles. It depends on  
14 what the definition of "remote" is and how long they  
15 think they could do to respond.

16 BY MS. LINOWES:

17 Q. Okay. It's conceivable that such a failure can occur  
18 at the top of Kelsey and no one will notice it for 24  
19 hours?

20 A. (Mandli) That is incorrect, because every turbine is  
21 monitored 24 hour/7. We have a Monitoring Center in  
22 Plattsburgh that watches the SCADA system. For people  
23 that aren't familiar, "SCADA" stands for Supervisor  
24 Control and Data Acquisition System. And, every park

{SEC 2008-04} [Day 1] {03-09-09}

79

[WITNESS PANEL: Decker|Lyons|Mandli]

1 we have is tied to the SCADA system. When people are  
2 on-site, they're watching the turbines during the day  
3 in the office. But, at evenings, every turbine is  
4 monitored by our Control Center in Plattsburgh.

5 Q. So, Saturday night, 2:00 in the morning, a turbine  
6 falls over and starts a fire --

7 A. (Mandli) You better believe it. In fact, I get a call  
8 --

9 CHAIRMAN GETZ: Mr. Mandli, let's let  
10 Ms. Linowes finish the question. Ms. Linowes.

11 MS. LINOWES: Thank you.

12 BY MS. LINOWES:

13 Q. There's no one on-site. You notify someone who  
14 notifies someone who notifies someone that there's a  
15 fire potentially?

16 A. (Mandli) We have technicians in the evening, they're on  
17 call. They have to be able to respond in 15 minutes to  
18 get to the site. So, we, once we have an event,  
19 whether it's a turbine shutdown under normal  
20 conditions, somebody's contacted shortly after it  
21 happens.

22 Q. And, are they equipped with fire suppression?

23 A. (Mandli) They're technicians. They go to the tower to  
24 make sure that the turbine shutdown correctly, and they  
{SEC 2008-04} [Day 1] {03-09-09}

80

[WITNESS PANEL: Decker|Lyons|Mandli]

1 will make a decision.

2 Q. Are they equipped with fire suppression?

3 A. (Mandli) They are not equipped with fire suppression.  
4 Our technicians are trained to operate wind turbines.

5 Q. And, then, the last set of questions along this line,  
6 there is another exhibit there, which is the IWA-X-1,  
7 that's entitled "Mechanical Operating and Maintenance  
8 Manual" for the V90s. Are you familiar with this  
9 document?

10 A. (Mandli) Yes.

11 Q. Okay. You've seen it.

12 MR. PATCH: Mr. Chairman, it's my  
13 understanding, from talking to the representatives of the  
14 Applicant that are here today, that this is, in fact,  
15 confidential and proprietary information. And, maybe it  
16 would be helpful if Ms. Linowes explained on the record

17 where she obtained it.

18 MS. LINOWES: Yes, Mr. Chairman. I'd be  
19 happy to do that. One of the wind projects in New York,  
20 the Applicant, it was not Noble Environmental, had  
21 submitted this document as part of either the SEQRA  
22 process in New York for reviewing wind projects or it was  
23 the environmental review. So, it was available on the  
24 website for that wind project.

{SEC 2008-04} [Day 1] {03-09-09}

81

[WITNESS PANEL: Decker|Lyons|Mandli]

1 CHAIRMAN GETZ: Mr. Patch.

2 MR. PATCH: I don't know how to verify  
3 that. But I just thought it was important that that be on  
4 the record. Obviously, we're not producing this. And, I  
5 think it ought to be clear that, you know, we're not doing  
6 anything to violate any confidential provisions that might  
7 exist with Vestas.

8 CHAIRMAN GETZ: Okay. Thank you.  
9 Please proceed.

10 MS. LINOWES: Thank you, Mr. Chairman.

11 BY MS. LINOWES:

12 Q. But I believe, Mr. Mandli, was it you who said that  
13 you're familiar with this document?

14 A. (Mandli) Yes, I am familiar with this document.

15 Q. I want to call your attention to, it's the third page  
16 in the document, this is not the full document, it's  
17 not a very big document. But there's a specific  
18 section I wanted to refer to. This would be, let's  
19 see, I guess it would be the fourth page, the one that  
20 has Page -- it's called "Page 3 of 32", it has a  
21 section called "Introduction" and then a section called

22 "Stay and Traffic by the Turbine". Do you see that?

23 A. (Mandli) Yes. I can see that, yes.

24 Q. Okay. And, if you can, can you just read the first

{SEC 2008-04} [Day 1] {03-09-09}

82

[WITNESS PANEL: Decker|Lyons|Mandli]

1 paragraph of that section titled "Stay and Traffic by  
2 the Turbine".

3 A. (Mandli) First of all, it's in English. But it says

4 "Do not stay within a radius of 400 meters from the  
5 turbine unless it's necessary." Is that as far as you  
6 want me to read?

7 Q. Yes. And, then, -- that would be fine. And, then, the

8 first sentence of the second paragraph, I'll read that

9 "Make sure that children do not stay by or play nearby  
10 the turbine." Does that distance of 1,300 feet seem

11 unusual to you?

12 A. (Mandli) No, it isn't.

13 Q. Do you know the distance of the turbines to the Cohos  
14 Trail?

15 A. (Mandli) I don't know that distance, but can you answer  
16 that?

17 A. (Decker) You're talking about the Cohos Trail? The  
18 Cohos Trail does intersect the Dixville turbines. And,  
19 we have reached out to the Cohos trekkers to ensure  
20 proper safety measures for that trail, should it be  
21 moved.

22 Q. Should it be used?

23 A. (Decker) Should it be moved.

24 Q. Oh, you're suggesting that it be moved?

{SEC 2008-04} [Day 1] {03-09-09}

83

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 A. (Decker) For safety concerns in the wintertime, we are  
2 looking at that, as well as working with I think the  
3 gentleman's name is "Peter", who represents the Cohos  
4 trekkers, to figure out, you know, a safe measure of  
5 distance from the trail.
- 6 Q. Would you agree that the manufacturer's document  
7 stating "1,300 feet" is a pretty reasonable setback?
- 8 A. (Mandli) It seems reasonable for this size turbine,  
9 yes.
- 10 Q. I believe, and, Mr. Decker, you said at "wintertime",  
11 this document doesn't appear to make a -- differentiate  
12 between summer, winter or seasons, is that true?
- 13 A. (Decker) I was just thinking about that because I'm  
14 seeing snow outside the window out there. But it just  
15 does not apply.
- 16 Q. I believe the concern might be things like blade throw  
17 and other components falling off the turbines?
- 18 A. (Decker) For the duration of the year, I guess is what  
19 you're looking for. So, yes.
- 20 Q. You agree? Okay. So, I believe, and I apologize, I  
21 don't have it in front of me, but I believe in the  
22 documentation for the actual Application, you state  
23 that you're "looking into signage to warn people that  
24 they're coming upon a wind energy operating facility",

{SEC 2008-04} [Day 1] {03-09-09}

84

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 and I believe you state the signage be a thousand feet,  
2 is that true? Do you recall that?
- 3 A. (Decker) Yes, I do.
- 4 Q. So, again, where did you get the thousand feet?
- 5 A. (Decker) The thousand feet is my experience in northern

6 New York where towns have adopted setbacks, from town  
7 laws that I've helped work on in New York. 500 feet or  
8 1,000 feet were kind of metrics that we've used there.  
9 The same metrics we thought would be applicable in New  
10 Hampshire.

11 Q. Okay. But I'm going to talk a little bit later about  
12 ice and ice throws. But, again, I would argue that  
13 certainly 500 feet is considerably shorter than  
14 1,300 feet, do you agree?

15 A. (Mandi) Yes. I notice the difference between the  
16 distances, I agree.

17 Q. And, a thousand feet is shorter than 1,300 feet?

18 A. (Decker) A thousand feet is shorter than 1,300 feet.

19 MS. LINOWES: Okay. Thank you. No more  
20 questions, on that topic. Thank you.

21 CHAIRMAN GETZ: All right. Then, let's  
22 take the lunch recess, and we will resume at 1:30. Thank  
23 you, everyone.

24 (Whereupon a lunch recess was taken at  
{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandi] 85

1 12:20 p.m. and the hearing reconvened at  
2 1:36 p.m.)

3 CHAIRMAN GETZ: Okay. Good afternoon,  
4 everyone. We're going to resume the hearings in Site  
5 Evaluation Committee Docket 2008-04. When we left off, we  
6 were hearing cross-examination from Ms. Linowes. But I  
7 understand there's a proposal from the Applicant?

8 MR. PATCH: Yes. Thank you, Mr.  
9 Chairman. Mr. Hessler, who is scheduled to testify on a  
10 panel after this panel is done, has a scheduling problem,

11 he can't be here tomorrow, couldn't be here until the end  
12 of the week. So, what we were hoping to do was to  
13 interrupt the cross of this panel, take Mr. Hessler and  
14 Mr. Borkowski, and then go back to finish the cross.  
15 Because it's my understanding that Ms. Linowes has I think  
16 maybe five other categories that she wishes to cross  
17 about, and then Mr. Roth has cross after that of the  
18 three-member panel that was here this morning.

19 CHAIRMAN GETZ: Okay. Have you  
20 discussed this proposal with the other parties?

21 MR. PATCH: I haven't discussed with all  
22 of the parties, but I did discuss with Mr. Roth and Ms.  
23 Linowes, and they indicated they did not have a problem.

24 CHAIRMAN GETZ: Mr. Roth.

{SEC 2008-04} [Day 1] {03-09-09}

86

[WITNESS PANEL: Hessler|Borkowski]

1 MR. ROTH: That's true. And, I'm sure  
2 he will also not object to Mr. Lloyd-Evans appearing,  
3 maybe he will, but I hope not, on the 19th.

4 CHAIRMAN GETZ: Okay. So, I take it  
5 then there's no objection to proceeding with the  
6 Hessler/Borkowski panel at this time?

7 (No verbal response)

8 CHAIRMAN GETZ: Then, let's proceed.

9 MR. PATCH: Okay. Thank you.

10 (Whereupon David Hessler and Matthew  
11 Borkowski was duly sworn and cautioned  
12 by the Court Reporter.)

13 DAVID HESSLER, SWORN

14 MATTHEW BORKOWSKI, SWORN

15 DIRECT EXAMINATION  
Page 72

16 BY MR. PATCH:

17 Q. Mr. Hessler, I'm going to start with you. Please state  
18 your name for the record.

19 A. (Hessler) David Hessler.

20 Q. Are you the same David Hessler who submitted prefiled  
21 testimony in this docket, which has been marked as  
22 "Petitioner's Exhibit 19"?

23 A. (Hessler) Yes, I am.

24 MR. PATCH: And, for the Committee,  
{SEC 2008-04} [Day 1] {03-09-09}

87

[WITNESS PANEL: Hessler|Borkowski]

1 that's Volume 1, Tab (i).

2 BY MR. PATCH:

3 Q. Do you have any corrections or updates to your prefiled  
4 testimony?

5 A. (Hessler) No, I don't.

6 Q. If you were asked the same questions today with regard  
7 to Exhibit 19 under oath, would your answers be the  
8 same as those contained in Exhibit 19?

9 A. (Hessler) Yes.

10 Q. Mr. Borkowski, please state your name for the record.

11 A. (Borkowski) Matthew Borkowski.

12 Q. Are you the same Matthew Borkowski who submitted  
13 prefiled testimony in this docket, which has been  
14 marked as "Petitioner's Exhibit 20"?

15 A. (Borkowski) Yes, sir.

16 MR. PATCH: And, for the Committee,  
17 that's Volume 1, Tab (j).

18 BY MR. PATCH:

19 Q. Do you have any corrections or updates to the prefiled  
20 testimony?

21 A. (Borkowski) I do not.  
22 Q. If you were asked the same questions contained in  
23 Exhibit 20 today under oath, would your answers be the  
24 same?

{SEC 2008-04} [Day 1] {03-09-09}

88

[WITNESS PANEL: Hessler|Borkowski]

1 A. (Borkowski) Yes.  
2 MR. PATCH: The witnesses are available  
3 for cross-examination.  
4 CHAIRMAN GETZ: Okay. Thank you. Mr.  
5 Mullholand?  
6 MR. MULLHOLLAND: I have no questions.  
7 Thank you.  
8 CHAIRMAN GETZ: Dr. Publicover?  
9 DR. PUBLICOVER: No questions.  
10 CHAIRMAN GETZ: Mr. Gabler?  
11 MR. GABLER: No questions.  
12 CHAIRMAN GETZ: Is Mr. Seiler here?  
13 MR. SEILER: No.  
14 CHAIRMAN GETZ: Ms. Keene?  
15 MS. KEENE: No questions.  
16 CHAIRMAN GETZ: Mr. Odell?  
17 MR. ODELL: No questions.  
18 CHAIRMAN GETZ: Ms. Linowes?  
19 MS. LINOWES: Yes, Mr. Chairman. Thank  
20 you.

CROSS-EXAMINATION

21 BY MS. LINOWES:  
22 Q. Mr. Hessler and Mr. Borkowski, most of my questions are  
23 related to sound and noise levels. And, I'm going to  
24

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Hessler|Borkowski]

- 1 be referencing cross-examination Exhibit IWA-X-4. I  
2 believe I gave you a copy of that?
- 3 A. (Borkowski) Yes.
- 4 Q. Mr. Hessler, do you recognize that page?
- 5 A. (Hessler) Yes, I do.
- 6 Q. And, could you tell us what that is?
- 7 A. (Hessler) It's an excerpt from ISO Standard 9613, which  
8 is a methodology for calculating sound propagation.
- 9 Q. For modeling it?
- 10 A. (Hessler) Yes.
- 11 Q. Is that the model, the Cadna/A software modeling that  
12 you used for this project?
- 13 A. (Hessler) Yes. Yes. The software that we use is just  
14 an automated version of the standard essentially.
- 15 Q. Okay. Thanks. Now, on that document, you see that  
16 there are -- there's a table there?
- 17 A. (Hessler) Uh-huh.
- 18 Q. That references, I guess, error rates. Would you say  
19 that was what is represented there?
- 20 A. (Hessler) Yes. It's indicating the uncertainty factor  
21 associated with the calculations.
- 22 Q. Now, so this is, based on this standard, the ISO  
23 Standard, it has, and those -- hope everyone has a  
24 copy, for heights of 5 meters to 30 meters, is

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Hessler|Borkowski]

- 1 30 meters elevated above the ground the highest level  
2 that the ISO Standard operates on?
- 3 A. (Hessler) No. It's the highest elevation for a source

- 4 where specific uncertainty values are given by the  
5 standard.
- 6 Q. Thank you. And, so, -- And, then, for the distances  
7 out, this would be the location of the receptor. So,  
8 you have the noise source, at a maximum elevation of  
9 30 meters, and the receptor to a maximum distance of a  
10 thousand meters, is that correct?
- 11 A. (Hessler) That's correct.
- 12 Q. Okay. Mr. Hessler, what's the height of the hub on a  
13 turbine?
- 14 A. (Hessler) About 80 meters.
- 15 Q. So, you were actually operating outside of the limits  
16 of the ISO Standard?
- 17 A. (Hessler) No, the standard doesn't preclude sources  
18 that are higher than 30 meters, except for aircraft in  
19 flight. It just doesn't give an uncertainty value for  
20 sources that are higher than 30 meters and receptors  
21 that are further than a thousand meters.
- 22 Q. Okay. And, I'll come back to that in a second. So,  
23 the distance of the receptors, was it more than -- of  
24 the six locations I believe you had receptors, it was
- {SEC 2008-04} [Day 1] {03-09-09}

91

[WITNESS PANEL: Hessler|Borkowski]

- 1 more than a thousand meters?
- 2 A. (Hessler) Oh, yes. Yes, the nearest receptors to this  
3 project are miles away.
- 4 Q. Okay. So, Mr. Hessler, while you say that it doesn't  
5 give an uncertainty figure for the standard, you used a  
6 modeling methodology, a modeling software that has  
7 established limits, is that correct? Of 30 meters for  
8 the source of the noise and a thousand meters for the

- 9 distance for the receptor?
- 10 A. (Hessler) The standard is not limited to these heights  
11 and distances. It's just -- That's the range in which  
12 a specific uncertainty factor is given.
- 13 Q. Mr. Hessler, I appreciate that. I recognize you can  
14 put any kind of information into a software program and  
15 get any kind of information out. And, I'm trying to  
16 get an understanding of how valid the information you  
17 have out is. You're using a software -- you're using a  
18 model that has limits to it, and it appears, if I  
19 understand you correctly, you're using information that  
20 exceeds the limits of the model, is that correct?
- 21 A. (Hessler) No, no. The standard doesn't preclude  
22 calculating sound levels beyond a thousand meters away.  
23 It just doesn't give the accuracy of that.
- 24 Q. So, what is the accuracy of the information you're  
{SEC 2008-04} [Day 1] {03-09-09}

92

[WITNESS PANEL: Hessler|Borkowski]

- 1 gi vi ng?
- 2 A. (Hessler) It would be higher than this plus or minus  
3 three.
- 4 Q. A thousand decibels? A hundred decibels? What are we  
5 talking about?
- 6 MR. PATCH: Mr. Chairman, I wish  
7 Ms. Linowes would let Mr. Hessler answer the questions  
8 first before interrupting him.
- 9 MS. LINOWES: Thanks. My apologies, Mr.  
10 Chairman.
- 11 BY THE WITNESS:
- 12 A. (Hessler) Well, I think it's important to point out  
13 that this ISO Standard outlines methods for calculating

14 acoustical losses due to distance, due to ground  
15 absorption, due to air absorption, due to barriers,  
16 foliage, all kinds of things. But the key loss that's  
17 of interest here is the loss due to distance from the  
18 source to the receptor. And that, even though it's  
19 part of the standard, that is simply an axiomatic law  
20 of physics. That a sound radiates out from a source in  
21 a spherical pattern. And, as the surface area of the  
22 sphere gets bigger and bigger, the energy in it gets  
23 spread out and it diminishes. So, the sound, over a  
24 long propagation path, must diminish significantly.

{SEC 2008-04} [Day 1] {03-09-09}

93

[WITNESS PANEL: Hessler|Borkowski]

1 It's called the "Inverse Square Law". All the other  
2 factors in the standard are minor, compared to distance  
3 loss.

4 So, a receptor that's miles away, the  
5 energy left in the sound is minuscule at that distance.  
6 So, it doesn't matter really what the uncertainty is.  
7 The sound is so small at that point that it doesn't  
8 really matter. For instance, theoretically, --

9 BY MS. LINOWES:

10 Q. I understand. I think we understand what you're  
11 saying. And, I'm trying to get to the fact that, in  
12 fact, your model is -- is it safe to conclude that what  
13 matters is the distance of the homes to the turbine,  
14 and, in fact, your model is relatively meaningless?

15 A. (Hessler) No. No. We could calculate the impact of  
16 the project in this courtroom, theoretically. And, the  
17 uncertainty factor associated with that would be  
18 hundreds of dB. But I think it's intuitively obvious

19 that there's not going to be an impact at this kind of  
20 distance. And, it's not too different at two or  
21 three miles away.

22 Q. Okay. Now, I just have two quick questions, and I  
23 don't want to belabor this topic. On Pages 2 through 8  
24 of your document, this would be Appendix 28 of the  
{SEC 2008-04} [Day 1] {03-09-09}

94

[WITNESS PANEL: Hessler|Borkowski]

1 initial set of documents, this would be your noise  
2 study, "Environmental Sound Survey and Noise Impact  
3 Assessment".

4 A. (Hessler) Okay.

5 Q. Do you have that?

6 A. (Hessler) Yes.

7 Q. I was taking particular note of the locations where you  
8 had sited the six noise receptors.

9 A. (Hessler) Uh-huh.

10 Q. And, one in Figure 2.2.1 on Page 2, and one on 2.2.5 --  
11 Figure 2.2.5 on Page 4.

12 MR. IACOPINO: Ms. Linowes, let me just  
13 point out that the exhibit that you're actually referring  
14 in our record is Petitioner Exhibit 1.3, which is the  
15 third volume of the Application, and that's Appendix 28 in  
16 that filing.

17 MS. LINOWES: Thank you.

18 MR. IACOPINO: I just want to make sure  
19 the record is clear.

20 BY MS. LINOWES:

21 Q. Is it typical for you to put a noise receptor where  
22 it's surrounded by leaves and could potentially pick up  
23 noise from the leaves while the wind is blowing through

24 it? And, equally so, is it typical for you to place a  
{SEC 2008-04} [Day 1] {03-09-09}

95

[WITNESS PANEL: Hessler|Borkowski]

1 receptor right by a road? Is that where people sleep?  
2 A. (Hessler) Yes. What we seek to do in these surveys is  
3 to monitor at a lot of positions or a number of  
4 positions in a variety of settings that are  
5 representative of where people live around the project.  
6 The one by the road is there because the nearest house  
7 in that direction is right on that road, right behind  
8 the monitoring position. And, the other one, the first  
9 one you referred to, and that's near some houses in the  
10 other direction from the site. That's just typical of  
11 that area where those houses are.

12 Q. But, Mr. Hessler, this is my last question. Is that  
13 the appropriate methodology of capturing background  
14 noise, where it's surrounded by leaves? That's rather  
15 odd, wouldn't you say?

16 A. (Hessler) Well, there were some bushes there. But,  
17 when we analyzed the data, what we found was that the  
18 sound levels at essentially all of these positions was  
19 almost the same over the entire survey period. There  
20 was no significant difference between the site that had  
21 some leaves near it and the other positions.

22 Q. Well, that's when your averaging. Is that LD Eq or is  
23 that LD 90?

24 A. (Hessler) We look at the L90, the real background that  
{SEC 2008-04} [Day 1] {03-09-09}

96

[WITNESS PANEL: Hessler|Borkowski]

1 happens when the wind is at a lull and no cars are  
2 going by, that sort of thing.

3 MS. LINOWES: Thank you, Mr. Chairman.

4 CHAIRMAN GETZ: Thank you. Mr. Roth.

5 MR. ROTH: I have no questions.

6 CHAIRMAN GETZ: Thank you. Questions  
7 from the subcommittee?

8 MR. ROTH: Excuse me, Mr. Chairman.  
9 Would my questions at this point be limited to Mr. Hessler  
10 or to either witness?

11 CHAIRMAN GETZ: Either witness.

12 MR. ROTH: Oh. Okay. I thought we were  
13 just doing him. And, I do have a couple of questions for  
14 Mr. Borkowski.

15 CHAIRMAN GETZ: Okay. Let's get that  
16 straight then. I've been going through all the parties  
17 providing an opportunity to address the panel. Are you  
18 done with your questions with the panel, Ms. Linowes?

19 MS. LINOWES: Yes, I am. Thank you.

20 MR. ROTH: Okay. I just have two  
21 questions for Mr. Borkowski.

22 BY MR. ROTH:

23 Q. In doing -- In your work on shadow flicker, do you have  
24 an occasion to interpret other kinds of visual

{SEC 2008-04} [Day 1] {03-09-09}

97

[WITNESS PANEL: Hessler|Borkowski]

1 phenomena that might occur with respect to the wind  
2 turbines?

3 A. (Borkowski) Could you give an example?

4 Q. Well, for example, if, you know, think about when  
5 you're -- if you're in an airplane, and you're landing  
6 at an airport and the Sun shines off of car  
7 windshields, that sort of phenomenons. What would that

- 8 be called?
- 9 A. (Borkowski) Such as Sun glint, I believe?
- 10 Q. Yes.
- 11 A. (Borkowski) That's not taken into account with any of
- 12 the shadow flicker modeling.
- 13 Q. Okay. But, in terms of your expertise and your
- 14 understanding of visual impacts or effects, do you have
- 15 any knowledge about that sort of thing?
- 16 A. (Borkowski) Very limited. It pretty much strictly
- 17 encompasses the model that's used to compute the shadow
- 18 flicker. So, I'm not terribly familiar with other
- 19 sources of visual stimuli, I guess.
- 20 Q. So, if I were to ask you to look at this exhibit, and
- 21 this is Exhibit, in Volume 6, it's 55(d), as in dog.

22 MR. IACOPI NO: Petitioner 2.2.

23 BY MR. ROTH:

- 24 Q. And, it's Viewpoint Number 19 from Lake Umbagog, and if
- {SEC 2008-04} [Day 1] {03-09-09}

98

[WITNESS PANEL: Hessler|Borkowski]

- 1 I can show this to you.
- 2 A. (Borkowski) Uh-huh.
- 3 Q. And, this is apparently, and this is reassuring, I
- 4 suppose, there are visual -- they have created the
- 5 image of turbines along this ridge here. You can't
- 6 really see them.
- 7 A. (Borkowski) Correct.
- 8 Q. And, this data here indicates that this view to the
- 9 turbines is approximately 13 miles.
- 10 A. (Borkowski) Uh-huh.
- 11 Q. Okay? Do you have any reason to believe that, from
- 12 this view from Lake Umbagog, that there would ever be

13 an occasion when a person looking that way would see a  
14 glint or a shine from the turbines themselves?

15 A. (Borkowski) I can't say with any, I guess, definitive  
16 answer that "it's not possible". What I do know is  
17 that the Vestas turbines I believe include basically a  
18 paint that is -- the purpose of it is to minimize Sun  
19 glint in these sorts of instances. So, I would expect  
20 an instance that you can observe such a glint from 13,  
21 14 pipelines away would be rather rare.

22 MR. ROTH: Okay. Thank you. That's all  
23 I have.

24 CHAIRMAN GETZ: Mr. Scott.

{SEC 2008-04} [Day 1] {03-09-09}

99

[WITNESS PANEL: Hessler|Borkowski]

1 DIR. SCOTT: I have questions for Mr.  
2 Hessler regarding back to the noise, yes, the noise sound  
3 levels.

4 WITNESS HESSLER: Yes.

5 BY DIR. SCOTT:

6 Q. You mentioned that the nearest receptors were miles  
7 away. Would you be able to estimate roughly what the  
8 expected noise level would be at the nearest receptor?

9 A. (Hessler) I believe it's in the neighborhood of 30 to  
10 -- somewhere between 30 and 25 dBA, as I recall.

11 DIR. SCOTT: Okay. That's it.

12 BY MR. HARRINGTON:

13 Q. This is another sound question for Mr. Hessler. You  
14 had mentioned the "Inverse Square Rule" having to do  
15 with the dissipation of sound and distance. Is it  
16 correct to assume that if, let's assume that there was  
17 absolutely no vegetation, no trees, no buildings or

18 anything that would dampen the sound, that that would  
19 give you the maximum amount of sound level at a  
20 particular distance?

21 A. (Hessler) That's right. And, in fact, that's the way  
22 we calculate it in the model. We just neglect foliage  
23 and pretty much everything else, other than ground  
24 absorption, which is a -- it's a real phenomenon,

{SEC 2008-04} [Day 1] {03-09-09}

100

[WITNESS PANEL: Hessler|Borkowski]

1 although the magnitude of it is very small over a long  
2 distance.

3 Q. So, for the most part, when you make your statement  
4 saying that the -- well, "the sound level is going to  
5 drop off below background before it reaches the nearest  
6 residence", that sounds like a very conservative  
7 statement. They're talking about the maximum possible  
8 sound?

9 A. (Hessler) Yes, that's right. We're taking the turbine  
10 level at its highest measured performance during an 8  
11 meter per second wind, and then projecting that out.

12 Q. So, and any of the assumptions you would make with  
13 regard to foliage, absorption, and so forth, since  
14 you're saying you're not taking credit for that, we  
15 know there would be some, so your numbers are probably  
16 going to be higher than the actual?

17 A. (Hessler) Yes. Yes, we want to be sure that we're not  
18 underestimating the sound level at anyone's house. We  
19 take great pains to do that.

20 Q. Did you do any modeling of the sound levels on the  
21 Cohos Trail, which I guess we haven't established  
22 exactly how far that is from the turbines, but I know

23 it's in the vicinity of it?

24 A. (Hessler) Well, we plotted the expected maximum sound

{SEC 2008-04} [Day 1] {03-09-09}

101

[WITNESS PANEL: Hessler|Borkowski]

1 levels all over the site area out to 36 dBA, which is  
2 the background level. So, we have mapped it over where  
3 this trail goes, but I'm not familiar with the trail.

4 Q. Okay. Well, maybe that's something we could get to  
5 later. I'd be just curious as to what the level was.

6 What's the level of the sound, let's say, in the  
7 immediate vicinity of the turbines, within say the 50  
8 foot - outside of the fenced area, which is 50 feet?

9 A. (Hessler) Yes, usually what I've measured is somewhere  
10 55 to 57, standing right at the base.

11 Q. Changing that into something that we can all relate  
12 with a little bit better, what would 55-57 decibels be  
13 similar to?

14 A. (Hessler) That's not particularly loud. You could  
15 easily carry on a conversation over top of that.  
16 Certainly not deafening or anything.

17 MR. HARRINGTON: Okay. Thank you.

18 WITNESS HESSLER: Okay. You're welcome.

19 CHAIRMAN GETZ: Mr. Scott.

20 BY DIR. SCOTT:

21 Q. Mr. Hessler, again, just for, again, so that I can get  
22 my head around what dBAs are. And, I know you don't  
23 have your measurement tools here, can estimate,  
24 obviously we have a fan in the background, what level

{SEC 2008-04} [Day 1] {03-09-09}

102

[WITNESS PANEL: Hessler|Borkowski]

1 we're hearing right now?

2 A. (Hessler) Forty-three, something like that.

3 DIR. SCOTT: Okay. And, again, I know  
4 you don't have a measurement tool. Thank you.

5 MR. ROTH: Can you guess his age?

6 [Laughter]

7 WITNESS HESSLER: I'm not going to go  
8 there.

9 MR. HARRINGTON: He can't count that  
10 high.

11 CHAIRMAN GETZ: But, I want to follow  
12 up, Mr. Harrington, on your question, are you asking for a  
13 record request or the witness --

14 MR. HARRINGTON: Yes, I would like to  
15 have -- know what the levels of the sound were along the  
16 Cohos Trail, and whatever the closest proximity it comes  
17 to with any particular wind turbine.

18 CHAIRMAN GETZ: Mr. Patch.

19 MR. PATCH: Mr. Chairman, actually, I  
20 had one question on redirect. But I think, if you look at  
21 Appendix 28, which is in Volume 3, which is Petitioner  
22 1.3, at the very end of Mr. Hessler's report is the plot  
23 that he was referring to. And, I don't think it's clear  
24 from that map where the trail is, but perhaps we could

{SEC 2008-04} [Day 1] {03-09-09}

103

[WITNESS PANEL: Hessler|Borkowski]

1 produce that and superimpose on that the trail. Would  
2 that be helpful?

3 MR. HARRINGTON: That's all I'm looking  
4 for. That will be fine. Thank you.

5 MR. PATCH: So, we'll take a record

6 request on that.

7 CHAIRMAN GETZ: Okay. And, let's  
8 reserve Petitioner Exhibit 42 for the response to  
9 Mr. Harrington's question.

10 (Petitioner Exhibit 42 reserved)

11 CHAIRMAN GETZ: Any other questions from  
12 -- Mr. Kent.

13 BY DR. KENT:

14 Q. Mr. Hessler, do you have any idea of what the effects,  
15 if any, would be on the wildlife in the vicinity of the  
16 tower?

17 A. (Hessler) No, that would be for a wildlife expert to  
18 comment on. I can only report what the actual levels  
19 are, but I don't know what the effects of that would  
20 be.

21 Q. Mr. Borkowski, same question. Do you have any idea if  
22 there is any effects on wildlife from shadow flicker?

23 A. (Borkowski) And, the same answer, it's nothing I can  
24 comment on, but only the actual analysis that was done.

{SEC 2008-04} [Day 1] {03-09-09}

104

[WITNESS PANEL: Hessler|Borkowski]

1 DR. KENT: Okay. Thank you.

2 CHAIRMAN GETZ: Anything further?

3 (No verbal response)

4 CHAIRMAN GETZ: Okay. Hearing nothing,  
5 then opportunity for redirect?

6 MR. PATCH: No thank you. The plot's  
7 already been mentioned. So, I think I'm all set. Thank  
8 you.

9 CHAIRMAN GETZ: Okay. Then, the  
10 witnesses are excused. Thank you, gentlemen. Okay. So,

11 then, let's resume with the panel of Lyons, Decker, and  
12 Mandli please. And, I'll just note, gentlemen, you're  
13 still under oath.

14 (Whereupon Mark Lyons, Pip Decker, and  
15 Daniel Mandli were recalled to the  
16 stand, having been previously sworn.)

17 MS. LINOWES: Mr. Chairman, while  
18 they're getting ready, I just wanted to let you know that  
19 I'm holding all of my questions that have to do with the  
20 System Impact Study till the end. And, I haven't spoken  
21 with Mr. Roth, but I believe his questions, in terms of  
22 confidential, come at the beginning. So, if there's a  
23 decision to be made, perhaps we could do it, is go to the  
24 nonpublic to address this part before my starting those

{SEC 2008-04} [Day 1] {03-09-09}

105

[WITNESS PANEL: Decker|Lyons|Mandli]

1 questions. That's up to you, though.

2 CHAIRMAN GETZ: Okay. Thank you. I  
3 think we're ready.

4 MS. LINOWES: Okay.

5 CHAIRMAN GETZ: And, Mr. Decker, if you  
6 could just make sure that you're close to the mike.

7 WITNESS DECKER: Sound good?

8 CHAIRMAN GETZ: Thank you.

9 WITNESS DECKER: All right.

10 MARK LYONS, Previously sworn

11 PIP DECKER, Previously sworn

12 DANIEL MANDLI, Previously sworn

13 CROSS-EXAMINATION (Resumed)

14 BY MS. LINOWES:

15 Q. Mr. Lyons, are you a real estate appraiser?

- 16 A. (Lyons) No, I am not.  
17 Q. Do you have experience in that?  
18 A. (Lyons) No, I don't.  
19 Q. Okay. And, do you have experience in evaluating,  
20 granting property tax abatements associated with  
21 adjacent land uses and potential negative impacts on  
22 homes or other real estate?  
23 A. (Lyons) No.  
24 Q. And, Mr. Decker, the same questions for you.

{SEC 2008-04} [Day 1] {03-09-09}

106

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 A. (Decker) I'm not a real estate appraiser. And, "no" to  
2 the second question as well.  
3 Q. Okay. I want to direct your attention to Page 98 of  
4 the GRP Application.  
5 MS. LINOWES: And, Mike, I don't know  
6 what the exact -- I haven't mapped these to the -- but it  
7 must be the first exhibit.  
8 MR. IACOPI NO: Volume 1?  
9 MS. LINOWES: Yes.  
10 MR. IACOPI NO: That would be  
11 Petitioner's 1.1.  
12 BY MS. LINOWES:  
13 Q. And, this would be Page 98, the section entitled  
14 "Property Values". Before I go down my line of  
15 questions, is there any other information, other than  
16 your reference to this section in your testimony, Mr.  
17 Decker, that talks about property values, to your  
18 knowledge?  
19 A. (Decker) I believe there is reference in the  
20 supplemental filing that Ross Gittel provided.

21 Q. Okay. But that is -- that's the document we talked  
22 about today?

23 A. (Decker) Yes.

24 Q. Okay. You make -- well, let me ask you this question.

{SEC 2008-04} [Day 1] {03-09-09}

107

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 Who wrote this section of the document that I  
2 referenced?

3 A. (Decker) This was prepared by myself, Chip Reading,  
4 reviewed by people that work within Noble Environmental  
5 Power.

6 Q. Okay. Then, I'll direct my questions to you. But, if  
7 anyone else on the panel knows the answer, I would  
8 appreciate hearing from you. You make a statement in  
9 there that says "Based on national studies, windparks  
10 have been shown to have no adverse impact on property  
11 values." Do you see that? Do you recall writing that?

12 A. (Decker) Yes, I recall either writing it, reviewing it,  
13 or preparing it for submission.

14 Q. Okay. And, what is the basis of that assertion?

15 A. (Decker) Well, the assertion is supported by the  
16 documents that we have provided under the appendices:  
17 The Effect of Wind Development on Property Values,  
18 Impacts of Wind Mill Visibility on Property Values, as  
19 well as there's -- there are the two studies that I  
20 just noted.

21 Q. And, are those reports commonly referred to as the  
22 "Repp Report" and the "Hoen Report", is that what  
23 you're talking about? Or, are those different  
24 documents?

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

1 A. (Decker) No, those are the documents.

2 MS. LINOWES: Okay. And, those are, for  
3 the record, again, Mike, my apologies, but I have them as  
4 Appendix 30a and 30b of the original submission.

5 WITNESS DECKER: It says here that it's  
6 "31" and "32" in the left-hand column.

7 BY MS. LINOWES:

8 Q. But those are the Repp Report and the Ben Hoen Report  
9 of Madison County?

10 A. (Decker) Yes, 30a and 30b, that is correct.

11 Q. Did you read both of those reports?

12 A. (Decker) Have I? Yes, I have.

13 Q. Okay. Now, I'm going to make comment particularly  
14 about the Repp Report.

15 MR. IACOPI NO: All right. And, these  
16 reports are contained in Exhibit Petitioner 1.3. In  
17 Appendix 30a and 30b, are those the ones you're referring  
18 to, Ms. Linowes?

19 MS. LINOWES: Yes, that's right.

20 BY MS. LINOWES:

21 Q. On Page 16 of the Hoen Report, which would be 30b, he  
22 identifies four flaws in the Repp Report. And, I'm  
23 going to just read one sentence out of there, and then  
24 I'll talk about them. He said, "Combined, these four  
{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

1 omissions in rigor render the results of the Repp  
2 Report extremely weak, if not entirely misleading."  
3 And, let me go through those. Mr. Decker, according to  
4 Ben Hoen, the Repp Report says -- it states "the study  
Page 91

5 makes the erroneous assumption that the properties in  
6 the 5-mile radii of the wind facility can see the  
7 windfarm, when many houses' views in fact were  
8 obstructed." Do you recall reading that in the Hoen  
9 Report in reference to the Repp Report?  
10 A. (Decker) Yes, I recall reading the report.  
11 Q. Do you recall reading his statement that says "the  
12 analysis" of the Repp Report "did not control for  
13 distance to the turbines but made the assumption that  
14 the viewshed effect was the same for homes five miles  
15 from the windfarm and those in the immediate proximity  
16 to the turbines." Do you remember reading that?  
17 A. (Decker) Yes.  
18 Q. And, do you remember the third -- I'll just reference  
19 it. The third one, is the sales transaction included  
20 in those transactions that were -- they were "not  
21 arms-length", they involved "divorces, sales between  
22 family members", etcetera. As a result, the report  
23 "included transactions that do not represent the  
24 agreement between a willing buyer and a willing  
{SEC 2008-04} [Day 1] {03-09-09}

110

[WITNESS PANEL: Decker|Lyons|Mandli]

1 seller". Do you recall that being one of the four  
2 flaws -- those three being the total of four flaws on  
3 the Repp Report, do you recall that?  
4 A. (Decker) Yes.  
5 Q. Okay. Now, onto Mr. Hoen's report, this would be 30b,  
6 are you aware of Mr. Hoen's own admission that his  
7 study was limited to Fenner, New York, and communities  
8 similar to Fenner, New York?  
9 A. (Decker) Yes.

10 Q. Is there anywhere in your testimony or in your  
11 documentation that you have submitted to the Committee  
12 that identifies how this project site and the  
13 surrounding communities are similar to Fenner, New  
14 York?

15 A. (Decker) I don't believe I made a direct connection  
16 between Fenner and this project.

17 Q. Have you been -- Oh, I'm sorry.

18 A. (Decker) Have I been to Fenner? Yes, I have.

19 Q. How would you describe Fenner, New York?

20 A. (Decker) I would describe Fenner as, you know, it's a  
21 mountainous place. There are other projects being  
22 proposed over there. I think the turbines are very  
23 close to people's homes by comparison to here. When I  
24 was there I had to park off the side of the road and

{SEC 2008-04} [Day 1] {03-09-09}

111

[WITNESS PANEL: Decker|Lyons|Mandli]

1 talk with some of the local landowners that have  
2 windmills on their property. One gentleman said he  
3 made more money selling T-shirts --

4 Q. Mr. Decker, --

5 A. (Decker) Sure.

6 Q. -- I didn't ask you that.

7 A. (Decker) All right. Okay. I'm sorry. It was a fun  
8 trip, if you want to hear about it?

9 Q. I don't.

10 A. (Decker) Okay. All right. I'll keep it in my diary  
11 then.

12 Q. You would not describe Fenner as Fenner describes  
13 itself as a "farming community"?

14 A. (Decker) I believe Fenner is a farming community, based

15 on my trip.

16 Q. Are you aware of the fact that the turbines in Fenner  
17 are nearly 100 feet shorter than the turbines proposed  
18 for this site?

19 A. (Decker) Yes.

20 Q. In spite of Mr. Hoen's statements about the Repp Report  
21 and his own document, you apparently have concluded  
22 it's appropriate for you to look at his studies and the  
23 Repp Report and draw the conclusion that property value  
24 impacts in the areas surrounding the GRP property site

{SEC 2008-04} [Day 1] {03-09-09}

112

[WITNESS PANEL: Decker|Lyons|Mandli]

1 will not be impacted. What is the basis for that?

2 A. (Decker) I'm going to defer to Mark Lyons on this.

3 A. (Lyons) If I might, since you invited us to kind of  
4 chip in. I'd just like to clarify that the statement  
5 in the Application about these reports is simply that  
6 we were not aware of any reports that indicated that  
7 there is an impact on property values. And, that's not  
8 to say that we are offering these particular studies as  
9 evidence of impact on property values in Coos County.  
10 We're simply looking at the available literature, and  
11 finding an absence of any study, though, there are many  
12 studies on the issue, none of them have drawn a  
13 connection between windfarm visibility and impact on  
14 property values. So, I just want to clarify that we  
15 are not offering these reports as evidence about impact  
16 on property values in Coos.

17 Q. Okay. I want to make sure that, I would like to have  
18 one correction to the record here, I appreciate your  
19 saying "there are many studies out there". But, until

20 you qualify each one of those studies and identified  
21 who paid for them in those projects which were looked  
22 at, I think that to draw a -- you've cited two, those  
23 are the only two that should be referenced today.

24 A. (Lyons) Well, actually, --

{SEC 2008-04} [Day 1] {03-09-09}

113

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. If you want to go into a full discussion of the others  
2 --

3 A. (Lyons) Actually, I'd be happy to produce the others.  
4 There are about a half a dozen that I'm aware of. But  
5 the point again here, and I can see there is still some  
6 confusion, is that there are zero that we are aware of  
7 that indicate a negative impact on property values.  
8 So, we're not defending any particular study. We're  
9 just pointing out the fact that we can't find any that  
10 have determined that windpark visibility has a negative  
11 impact on property values.

12 Q. Mr. Lyons, I believe your attempting to make a broad  
13 conclusion without proper reporting of -- without  
14 supplying the information.

15 MR. PATCH: Mr. Chairman, --

16 BY THE WITNESS:

17 A. (Lyons) I think we testified to what we're aware of.

18 MR. PATCH: Mr. Chairman, I'm afraid Ms.  
19 Linowes is commenting, not asking a question. If she's  
20 going to editorialize on every response to a question that  
21 has been provided by the witnesses, I don't think that's  
22 appropriate.

23 CHAIRMAN GETZ: Ms. Linowes, if you have  
24 other materials that would impeach his statement, then

[WITNESS PANEL: Decker|Lyons|Mandli]

1 you're more than welcome to --

2 MS. LINOWES: Well, I was not --

3 CHAIRMAN GETZ: Well, I bet we're going  
4 to have another big problem this afternoon because we're  
5 all talking over one another. Let's have one person  
6 talking at a time. So, if you have other testimony that  
7 you want to impeach the witness with, you can do that.  
8 But he's given you -- they have given you their  
9 explanation of why they have presented these studies. So,  
10 if we could proceed.

11 MS. LINOWES: Mr. Chairman, I do have a  
12 piece of information that I'd be interested in supplying,  
13 but I'm wondering how much to go into this, because we've  
14 already established that neither Mr. Lyons nor Mr. Decker  
15 is an experienced appraiser. To the extent that they have  
16 put paragraphs in here, I would argue that they be given  
17 very limited weight.

18 CHAIRMAN GETZ: Well, then, you'll have  
19 an opportunity at the end of the hearings to make your  
20 closing arguments or raise those issues on brief. Let's  
21 try to deal with the proper scope of cross-examination.  
22 If you have questions to them about the Application or  
23 their testimony on property values, let's get to that.

24 MS. LINOWES: Okay. Well, actually, I

[WITNESS PANEL: Decker|Lyons|Mandli]

1 will -- I'll move on from this then.

2 BY MS. LINOWES:

3 Q. Okay. The next, I want to ask you a couple questions  
4 about the FAA findings, substation and icing. For  
5 this, if you could look at Volume 6, Appendix 41.

6 MR. IACOPI NO: That would be Petitioner  
7 2.2.

8 BY MS. LINOWES:

9 Q. These are the appendices that were included as part of  
10 the supplemental testimony, February 28th.

11 MR. IACOPI NO: I'm sorry, which  
12 appendix, Ms. Linowes?

13 MS. LINOWES: That's 41.

14 BY MS. LINOWES:

15 Q. And, to the panel, I believe that these -- there are 33  
16 "Determinations of No Hazard to Air Navigation Reports"  
17 from the FAA, dated February 3rd, 2009. Is that  
18 correct?

19 A. (Decker) Yes.

20 Q. Mr. Decker, what is the height of these turbines,  
21 including the blade?

22 A. (Decker) I think it's approximately 416 feet, tip to  
23 toe.

24 Q. And, what is the height that apparently was submitted  
{SEC 2008-04} [Day 1] {03-09-09}

116

[WITNESS PANEL: Decker|Lyons|Mandli]

1 to the FAA for the Determination of Hazard Report?

2 A. (Decker) I did not personally submit those.

3 Q. I didn't ask you that question.

4 A. (Decker) I can -- Let's see.

5 A. (Lyons) A record request.

6 A. (Decker) We generally submit a height that's actually  
7 higher than the turbines themselves.

8 Q. Mr. Decker, I'm just asking you to read the report that  
9 we have 33 of, what is the height?

10 MR. PATCH: Maybe, Ms. Linowes, if you  
11 have a cite, you could point him to that.

12 BY MS. LINOWES:

13 Q. On the document, the first page, the first -- the very  
14 first, this would be for Wind Turbine T1, Location  
15 Millsfield, gives latitude, longitude. What is the  
16 height immediately below that?

17 A. (Decker) It says "389 feet".

18 Q. And, all 33 say the same, if you scan through?

19 A. (Decker) Yes, I believe so.

20 Q. So, is there a reason why there's a difference between  
21 the 416 feet for the height and the 389 which was  
22 submitted to FAA?

23 A. (Decker) I can follow up as a record request the  
24 difference in the height.

{SEC 2008-04} [Day 1] {03-09-09}

117

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. Is that an error that's there?

2 A. (Decker) I don't believe so.

3 Q. I'm sorry, you do not believe so?

4 A. (Decker) I do not believe so.

5 CHAIRMAN GETZ: Well, let's treat this  
6 this way. I take the answer to be is you don't know why  
7 it's -- what the source of the 389 feet is. And, I guess  
8 we can make a record request, if there's an explanation  
9 for how they got to the 389 feet. So, let's reserve  
10 Exhibit Number -- Petitioner's Exhibit Number 43, for an  
11 explanation about the heights used in the FAA filings.

12 (Petitioner's Exhibit 43 reserved)

13 BY MS. LINOWES:

14 Q. Mr. Decker or Mr. Lyons or Mandli, on the turbines that  
15 you had submitted a request for a hazard determination  
16 on in Clinton, Ellenburg, Altona, do you know if the  
17 heights that were issued were identical to the heights  
18 that you're telling us today represent the height of  
19 the turbine?

20 A. (Lyons) I don't know the answer to that.

21 Q. Okay. There are only 33 hazard determination forms  
22 here. Can you tell us whether the crane that is used  
23 to erect the turbines or dismantle the turbines is  
24 taller than the height of the turbine at any point when  
{SEC 2008-04} [Day 1] {03-09-09}

118

[WITNESS PANEL: Decker|Lyons|Mandli]

1 it's extended?

2 A. (Mandli) No, it is not.

3 Q. At no point does the crane extend above the height of  
4 the turbine?

5 A. (Mandli) No, ma'am. Because, when they lift the rotor,  
6 the highest point is the top -- is the highest part of  
7 the rotor.

8 Q. Okay.

9 A. (Mandli) The crane never gets up higher than the total  
10 height of the turbine with the rotor.

11 Q. Okay. And, now, I want to now go back to the GRP  
12 Application, again, the original document that you have  
13 submitted with the prefiled testimony. If you could  
14 look on Page 54 of that document. These questions have  
15 to do with the substation. Now, I'm having some  
16 difficulty actually reading this, maybe it's because of  
17 the copy. But I believe in that elevation view for the

18 substation, it says the substation is "45 feet" tall,  
19 is that correct?

20 A. (Decker) So, what we're depicting here is the grounding  
21 wires on the right-hand side is 45 feet tall. But,  
22 then, the shield wires and -- the shield wire, and then  
23 go across, I guess, heading west on the page to the  
24 fence.

{SEC 2008-04} [Day 1] {03-09-09}

119

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. But the highest point is 45 feet, would that be  
2 correct? Am I reading that right?

3 A. (Decker) That's right.

4 Q. Is that substation lit or will it be lit?

5 A. (Decker) The substation will not be lit at night. We  
6 will be employing "dark skies" protocols. This is in  
7 concurrence with the agreement that we have with the  
8 Town of Dummer. So that it will deploy motion sensor  
9 technology. So that, if you get to the substation, the  
10 lights will turn on for safety precautions, obviously,  
11 but it will not be lit otherwise.

12 Q. And, will it make noise?

13 A. (Mandli) There is some noise on the substation  
14 transformers.

15 Q. Have you modeled that noise?

16 A. (Decker) No?

17 A. (Mandli) No.

18 Q. Do you know how loud it is?

19 A. (Mandli) I do not know that answer right off.

20 Q. Nor do you know how far that noise will carry?

21 A. (Mandli) No, I don't. I'm sorry.

22 Q. Do you know the proximity of the substation to any

23 homes?

24 A. (Decker) I think the nearest home is 1.6 miles away  
{SEC 2008-04} [Day 1] {03-09-09}

120

[WITNESS PANEL: Decker|Lyons|Mandli]

1 from the switchyard. But we would have to confirm that  
2 for you.

3 Q. Is this located in the switchyard?

4 A. (Decker) No, it's not. I'm talking -- Are you talking  
5 about electrical facilities generally as a switchyard  
6 in a substation? The substation, the nearest home  
7 would be over eight miles direct line of sight from the  
8 project site to the nearest residence, if not further.

9 Q. Okay. Now, the next set of questions I want to ask you  
10 about have to -- reference the IWA-X-6 cross document  
11 that I had mentioned. You should have a copy of this.  
12 This is an e-mail that was provided to us by Randall  
13 Swisher of AWEA. Are you familiar with Randall  
14 Swisher?

15 A. (Mandli) He's the ex-president of AWEA, American Wind  
16 Energy Association, yes.

17 Q. Okay. Thank you. And, the e-mail is details an  
18 experience of John Zimmerman in Vermont, when he was  
19 standing near turbines in two locations. And, the one  
20 I'm interested in is the Searsburg wind energy facility  
21 in Vermont. And, I just want to -- we talked a little  
22 bit when you were up here earlier about setback  
23 distances. You had mentioned "a thousand feet", and we  
24 talked about Vestas for "1,300 feet". I just want to  
{SEC 2008-04} [Day 1] {03-09-09}

121

[WITNESS PANEL: Decker|Lyons|Mandli]

1 read you the quote here and get your comments on it.

2 And, this is on the back page. He says "While the  
3 Boeing study was academic, the danger from ice being  
4 released from rotor blades overhead is real, and a hard  
5 hat is not going to provide you with much comfort." Do  
6 you see that?

7 A. (Mandli) Yes.

8 Q. Okay. And, then, he goes onto say "When there is heavy  
9 rime ice built up on the blades and the machines are  
10 running, you instinctively [instinctually?] want to  
11 stay away. They roar loudly and sound scary. Probably  
12 you would feel safe within a half mile danger zone  
13 however." Does that surprise you?

14 A. (Mandli) Yes, it does. This is one man's opinion at  
15 Searsburg. I've never been at the Searsburg site, but  
16 I have been on other sites.

17 Q. These turbines, are you aware, are 198 feet tall?

18 A. (Mandli) Yes, they're old Zond, Z-o-n-d, 500 kilowatt  
19 machines. They're almost 13 years old. It's a dated  
20 technology, probably late '90s technology.

21 Q. The blade ice does not build up on the blades in the  
22 same fashion today?

23 A. (Mandli) The difference between, if I may, the  
24 difference between the Zond 700 or the 750 or the 500

{SEC 2008-04} [Day 1] {03-09-09}

122

[WITNESS PANEL: Decker|Lyons|Mandli]

1 and the Vestas V90, which we are proposing, is that the  
2 Vestas machine shuts itself down when it senses ice on  
3 its rotors.

4 Q. Do you know what the tolerance is for that?

5 A. (Mandli) I don't know the exact logic for the  
6 tolerance. But what they do is they watch for

7 deterioration in the actual power curve performance.  
8 And, when it sees a certain percentage of power curve  
9 performance deterioration, the machine shuts it down.  
10 It also looks for ambient temperature conditions, and  
11 it monitors ambient temperature conditions for icing  
12 events. Probably the safest turbine available on the  
13 market right now from an icing standpoint.

14 Q. Mr. Mandli, I would like to direct you to an article in  
15 that packet that I had given, which is "IWA-X-2". This  
16 would be the article before the last, the very last  
17 article in that section, was called -- what you want to  
18 reference, about Altona "residents shocked by turbine  
19 collapse." And, then, there's an article just before  
20 that called "Sensor fails to stop ice-terror wind  
21 turbine." Do you see that?

22 A. (Mandli) What's difficult about this document is there  
23 isn't any page. So, what am I doing? Am I counting  
24 back from the back --

{SEC 2008-04} [Day 1] {03-09-09}

123

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. Counting back from the back, yes. It's the third page  
2 from the back.

3 A. (Mandli) Oh. The "Sensor fails to stop ice terror"?

4 Q. Correct.

5 A. (Mandli) Yes.

6 Q. Are you familiar with that incident, what's happened in  
7 the UK in January?

8 A. (Mandli) I am not familiar with the incident that  
9 happened in the UK. I operate turbines in North  
10 America. So, I focus mostly on turbines that Noble  
11 runs.

- 12 Q. Are you aware that the British Wind Energy Association  
13 is changing its position on the -- the idea that the  
14 wind turbines shut them down, because they're finding  
15 that, in fact, it's not? They don't shut themselves --
- 16 A. (Mandli) I have no information or data that indicates  
17 that the British Wind Energy Association doesn't trust  
18 the shutdowns. No, I don't.
- 19 Q. Okay. Then, if I may, with regard to shutdowns,  
20 without knowing the tolerance, how long will the  
21 turbines run before you notice that there is a  
22 reduction in performance in comparison to the wind  
23 speeds up in the area?
- 24 A. (Mandli) On the GE fleet that we actually operate  
{SEC 2008-04} [Day 1] {03-09-09}

124

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 currently, we know it instantly when we have any type  
2 of accumulation on the blades, because we see a  
3 dramatic drop-off on the power curves.
- 4 Q. So, you're saying that ice will build up, and then  
5 you'll start to see how much ice?
- 6 A. (Mandli) Without going out and doing a scientific  
7 analysis of the actual buildup on the blades, it's very  
8 difficult to determine how much ice or what weight of  
9 ice or what thickness of ice.
- 10 Q. So, it could conceivably run for five, ten minutes, a  
11 half hour?
- 12 A. (Mandli) I don't know that answer.
- 13 WITNESS LYONS: Can we take a data  
14 request on this? This sounds like a good question for us  
15 to put directly to the turbine vendor. I'm sure they have  
16 this information.

GRP-DAY1.txt

17 MS. LINOWES: That would be wonderful.

18 CHAIRMAN GETZ: Okay. Well, let's

19 reserve Exhibit Number 44 for the record response.

20 (Petitioner Exhibit 44 reserved)

21 MS. GEIGER: Could we please get clarity  
22 on exactly what she's looking for?

23 CHAIRMAN GETZ: Okay. Ms. Linowes,  
24 would you like to frame the question you'd like them to

{SEC 2008-04} [Day 1] {03-09-09}

125

[WITNESS PANEL: Decker|Lyons|Mandli]

1 respond to.

2 MS. LINOWES: Oh, yes. I'm looking for  
3 the amount of the tolerance at which the turbines will  
4 shut down when ice builds up on the blades; the amount of  
5 time they can conceivably run --

6 CHAIRMAN GETZ: Well, let me ask this of  
7 Mr. Mandli. I took the question to be "how much icing  
8 before the automatic interrupt occurs?" Is that --

9 WITNESS MANDLI: Yes, I agree. I think  
10 that's a good question that we can refer to Vestas on  
11 their turbine.

12 CHAIRMAN GETZ: All right. Thank you.

13 MS. LINOWES: Thank you, Mr. Chairman.

14 WITNESS LYONS: Could I?

15 CHAIRMAN GETZ: Mr. Lyons.

16 WITNESS LYONS: Could I also point out  
17 that in the article that we're being referred to here,  
18 they don't make mention of any specific model or  
19 technology of the machine.

20 MS. LINOWES: I can get you that, if you  
21 would like to see it.

GRP-DAY1.txt

22 WITNESS LYONS: Okay. Thank you.

23 CHAIRMAN GETZ: Okay. Ms. Linowes.

24 BY MS. LINOWES:

{SEC 2008-04} [Day 1] {03-09-09}

126

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 Q. Yes. Okay, the next set of questions has to do with  
2 the environmental benefit of the project. In the GRP  
3 Application again, this would be Volume 1, at Pages 59  
4 through 61, you spend a fair amount of time, actually,  
5 I'm assuming, Mr. Decker, you might have written part  
6 of this? A fair amount of time spent on the  
7 environmental benefit of this project, again, Page 59  
8 through 61?

9 A. (Decker) Yes.

10 A. (Lyons) And, I worked on this as well.

11 Q. I'm sorry, you did that?

12 A. (Lyons) Yes.

13 A. (Decker) Yes.

14 Q. Oh, both of you?

15 A. (Decker) Yes.

16 Q. Okay. You also make -- You make an assertion in your  
17 testimony that the Project will result in reduced  
18 emissions?

19 A. (Decker) Yes.

20 Q. Is that what the environmental benefit is of this  
21 Project?

22 A. (Lyons) That's one of them.

23 Q. Are there others?

24 A. (Lyons) The fact that you get electricity without any

{SEC 2008-04} [Day 1] {03-09-09}

127

- 1 pollution.
- 2 Q. That's not the same thing?
- 3 A. (Lyons) No. I think the first is that you get energy  
4 without any pollution. And, the other is that, within  
5 a specific electric grid, it's displacing -- it's kind  
6 of a quantification, I suppose -- I suppose it is  
7 similar, but it's a more conservative quantification of  
8 the actual displacement.
- 9 Q. Actual displacement of?
- 10 A. (Lyons) Of emissions that would otherwise have  
11 occurred.
- 12 Q. Okay. What type of analysis did GRP perform to  
13 determine the emission reductions?
- 14 A. (Lyons) It took a fairly conservative approach, and  
15 assumed that, based on the marginal emissions rates, as  
16 published by the ISO, and since this Application was  
17 done, we've actually used the more recent report, the  
18 2006 report. And, the ISO provides marginal emission  
19 calculations for power generators in the ISO system.  
20 And, we assumed that we were only displacing marginal  
21 generators, which is probably a conservative case,  
22 because they tend to be the less polluting of the  
23 generation stock.
- 24 Q. Okay. So, you did not use any real wind data collected  
{SEC 2008-04} [Day 1] {03-09-09}

128

- 1 from your met towers and conduct a New England wide  
2 analysis to determine which power plants are likely to  
3 back down at the time when your project is producing?
- 4 A. (Decker) Well, we used real wind data to determine the

5 projected megawatt output over the course of a year,  
6 and that went into our calculations. But we did not go  
7 in terms of who's backing down on a case-by-case basis  
8 to --

9 Q. So, you just looked at the ISO's marginal emissions?

10 A. (Decker) To determine the expected input? That is  
11 correct.

12 A. (Lyons) Yes.

13 Q. So, you're expecting this to back down natural gas,  
14 possibly oil, is that right?

15 A. (Lyons) Yes.

16 Q. Based on the physical location of the wind plant, and  
17 the fact that the North Country largely has renewable  
18 generators, did you look into the possibility that this  
19 Project was actually backing out renewable generation?

20 A. (Decker) Well, I think the big thing about renewables,  
21 on a broad scale, is that they are price takers, by  
22 comparison to those who set the market, which is  
23 natural gas. So, renewable generators can price in  
24 lower and therefore accept a smaller price for power,

{SEC 2008-04} [Day 1] {03-09-09}

129

[WITNESS PANEL: Decker|Lyons|Mandli]

1 because they're using renewable resources, which are  
2 cheaper than fossil fuels.

3 A. (Lyons) Excuse me. When you refer to the "renewable  
4 resources", are you talking about hydro?

5 Q. Yes.

6 A. (Lyons) Yes. I don't think that those were assumed to  
7 be on the margin. So, we wouldn't be displacing them.

8 Q. Okay. So, now, I just want to make sure I'm clear.

9 You stated average capacity factors of 35 percent, is

- 10 that what you're saying? Average?
- 11 A. (Decker) Yes.
- 12 Q. What do you anticipate it being at 2:00 in the  
13 afternoon in the middle of August?
- 14 A. (Decker) An average capacity factor over the course of  
15 the year is determined by multiplying the number of  
16 hours in the day by the number of days in the year, and  
17 then you have to figure out what the percentage of  
18 those megawatt-hours is going to be if we're running at  
19 full capacity. So, on a certain day, we could be  
20 producing a higher or lower, it just depends on the  
21 exact day and the wind resource at that time.
- 22 Q. So, you didn't look at summer resource at all?
- 23 A. (Decker) No. This was -- This is projected over the  
24 course of a year, what will be displaced over the  
{SEC 2008-04} [Day 1] {03-09-09}

130

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 course of a year for another generating unit.
- 2 Q. Okay. So, now, in your testimony, and I believe also  
3 in the document, you state that "The Project will  
4 provide an incremental air pollution control benefit."  
5 Correct?
- 6 A. (Decker) Yes.
- 7 Q. And, that you reference nitric oxide, SO<sub>2</sub>, CO<sub>2</sub>, is that  
8 correct?
- 9 A. (Decker) Yes.
- 10 Q. Are these emissions subject to cap-and-trade in New  
11 England?
- 12 A. (Decker) It is my understanding that they are not.  
13 Renewable generators qualify for Renewable Credits --  
14 Renewable Energy Credits only. But we would certainly

15 I love to qualify for additional units. But my  
16 understanding is that we would not qualify for those,  
17 for those expected --

18 Q. I'm sorry. So, you're saying that nitric oxide,  
19 sulfuric oxide, and CO2 are not subject to  
20 cap-and-trade in New England?

21 A. (Decker) I believe they are. But Granite Reliable  
22 Power will not be able to capture those positive  
23 benefits that we are creating under the current  
24 cap-and-trade system in New England. Is that what

{SEC 2008-04} [Day 1] {03-09-09}

131

[WITNESS PANEL: Decker|Lyons|Mandli]

1 you're looking for?

2 Q. I don't understand your --

3 A. (Decker) Are they subject about what we're displacing?

4 Q. Is there a policy in place in the New England region  
5 that places a -- has a Cap-and-Trade Program for NOx  
6 SOx and CO2?

7 A. (Decker) You're talking about RGGE?

8 Q. That's CO2.

9 A. (Lyons) Yes. I'm not an expert on it, but I think it  
10 exists, yes.

11 Q. Okay. It's hard to go on with these questions, if  
12 you're not sure, okay.

13 A. (Lyons) Well, let's say it does exist.

14 Q. Does or does not?

15 A. (Lyons) Let's say that those emissions are subject to  
16 cap-and-trade in New England.

17 Q. Okay. Is that -- well, in the Cap-and-Trade Program,  
18 is that a policy -- does that policy, is it independent  
19 of the generators that are on the system or within the

20 NEPOOL system?

21 A. (Decker) I mean, --

22 A. (Lyons) Excuse me. I don't know how -- what the  
23 mechanics of the Cap-and-Trade Program are. But I  
24 think our point is that, when we're running, another  
{SEC 2008-04} [Day 1] {03-09-09}

132

[WITNESS PANEL: Decker|Lyons|Mandli]

1 resource is not. And, that resource would be emitting  
2 power pollution, then that much power pollution gets  
3 avoided. I don't know what that has to do with the  
4 mechanics of the Cap-and-Trade Program.

5 Q. Let me just -- Let's move slightly away from that then.  
6 I believe that you, in your Application, state "if the  
7 GRP Project is not built, then there would be a loss of  
8 the environmental benefit"?

9 A. (Lyons) Well, that's kind of a philosophical question,  
10 dealing with alternative futures. Wouldn't be a loss  
11 of something that there never was. We're saying  
12 that --

13 Q. Let me just quote --

14 A. (Lyons) -- the existence of this project in this system  
15 offers the potential for these emission displacements  
16 based on these emission rates.

17 Q. Mr. Lyons, let me quote from the Application. It says,  
18 "the benefits of adding approximately 99 megawatts of  
19 clean, renewable electric energy to the power grid  
20 would be lost in a no-build situation."

21 A. (Lyons) Okay.

22 CHAIRMAN GETZ: And, this is at the  
23 first full paragraph, on the top of Page 60?

24 MS. LINOWES: Yes. Thank you, Mr.

[WITNESS PANEL: Decker|Lyons|Mandi i ]

1 Chair man.

2 WITNESS LYONS: Ri ght.

3 BY MS. LINOWES:

4 Q. Is that your testimony?

5 A. (Lyons) Yes.

6 Q. Okay. I will not talk about cap-and-trade, because it  
7 will only confuse the issue. But I will say, in your  
8 testimony, February 23rd, I believe you stated that you  
9 would -- you're "resistent to making any changes to the  
10 Project site, because you would lose your position in  
11 the ISO queue", is that correct?

12 A. (Lyons) Yes.

13 Q. What is in the ISO queue right behind yours for this  
14 area?

15 A. (Lyons) I believe it's a biomass-fired plant.

16 Q. Uh-huh. In fact, aren't there two biomass facilities  
17 that are slated?

18 A. (Lyons) I believe there are.

19 Q. So, if your project is not built, and all of the  
20 attendant environmental impacts are not made, do we  
21 lose the environmental benefits?

22 A. (Lyons) If the choice is between having our power  
23 plant, having our windpark come on line and operate as  
24 expected, all things -- all other things being equal,

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandi i ]

1 yes. So, you'd have to hold everything else static.

2 Then, with our power plant, there's a net reduction in  
3 air emissions.

- 4 Q. But is it not also true that there's a project, a  
5 renewable energy project, right behind yours, and, if  
6 yours does not get built, there will still be a project  
7 that comes in play, and the region, in the New  
8 Hampshire -- the State of New Hampshire will not lose?
- 9 A. (Lyons) Well, first of all, that is a different future.  
10 That's not holding everything else equal. That's  
11 adding a new resource. And, I might add, and I  
12 certainly don't want to say anything pejorative about  
13 biomass plants, because I used to develop them, and I  
14 think they're a great thing. But they do have air  
15 emissions associated with them. So, I think that any  
16 emissions displacement impact of a biomass plant on the  
17 New England system would look very different from ours.
- 18 Q. Mr. Lyons, in your Application, though, you spent an  
19 awful lot of time, or Mr. Decker does, there's an awful  
20 lot of time talking about the emissions benefit,  
21 because this wind project will offset fossil fuels, and  
22 therefore, in a no-build situation, it would be a very  
23 bad thing to not have it built. But, in fact, there is  
24 a renewable project that can provide a real benefit.

{SEC 2008-04} [Day 1] {03-09-09}

135

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 Isn't that not true?
- 2 A. (Lyons) Yes, but how do you get energy from a biomass  
3 plant? You burn fuel. And, there are emissions that  
4 come up the stack. So, there is no burning of fuel  
5 with a wind project, there are zero emissions. And,  
6 when you measure the impact of -- on emissions, with  
7 having a windpark or not having a windpark, the  
8 addition from the windpark is zero, and there is a net

9 displacement of emissions from avoided projects that  
10 burn fuel.  
11 Q. Mr. Lyons, --  
12 A. (Lyons) And, if you're avoiding those emissions with  
13 another project that burns fuel, I'm just saying that  
14 would be a very different analysis.  
15 Q. Mr. Lyons, did you do the analysis to find out what the  
16 carbon sink is lost when you cut all the trees to put  
17 this project in and take out 13 acres of wetlands?  
18 A. (Lyons) No, I haven't. But I would dare say that it's  
19 a lot less than would occur from commercial timber  
20 harvesting that would be avoided by this project.  
21 Q. Okay. Thank you. I will move on, onto  
22 decommissioning. There was some questions that related  
23 to decommissioning, I won't belabor those or go into  
24 those at all. But you had provided a decommissioning  
{SEC 2008-04} [Day 1] {03-09-09}

136

[WITNESS PANEL: Decker|Lyons|Mandli]

1 schedule as part of Appendix 53 of the Appendix 6 --  
2 or, rather, Volume 6. And, this is towards the end.  
3 These pages do not appear to be numbered.  
4 MR. IACOPI NO: Which volume?  
5 MS. LINOWES: Volume 6. Appendix 53.  
6 MR. IACOPI NO: That would be Petitioner  
7 2.2.  
8 BY MS. LINOWES:  
9 Q. The section of (d) called "Estimate of Decommissioning  
10 Costs". And, I'm looking at these numbers, and I see  
11 that you do not put full dollar figures in for some of  
12 these; some you do, some you don't. Can you explain  
13 what it means to have the numbers in parentheses?

14 A. (Lyons) First of all, I want to explain that these  
15 numbers are placeholders. These are numbers that are  
16 based on a work in progress. That's why it says  
17 they're "preliminary". This whole document is a --  
18 represents proposed conditions to the Coos County  
19 Commissioners. It's based on the similar conditions  
20 that were agreed upon for the Lempster Project with the  
21 Town of Lempster. It's meant to cover the range of  
22 issues that were anticipated to be of local concern.  
23 And, this document has been provided to the County  
24 Commissioners for their review and is currently under

{SEC 2008-04} [Day 1] {03-09-09}

137

[WITNESS PANEL: Decker|Lyons|Mandi]

1 review by them. And, it's very much a draft document.  
2 So, whereas the scope of issues seems to be reasonable,  
3 and, again, it's derived from Lempster, and the County  
4 Commissioners have agreed that it's a reasonable scope  
5 of issues, the details are under review by them and  
6 will be subject to discussion by us and them. So, you  
7 know, I would look at those numbers as blanks at this  
8 point. They're subject to review and completion. So,  
9 --

10 Q. Okay. Can you explain what it means to have a number  
11 in parentheses, though?

12 A. (Lyons) It would be a -- It would be a negative number.  
13 It would be a negative cost, if you will. It would be  
14 a situation where the salvage value exceeded the  
15 removal value.

16 Q. I want to ask you a more global question at the moment,  
17 because I think that the reasoning is escaping me at  
18 the moment. Can you explain the purpose of the

19 Decommissioning Security Fund?

20 A. (Lyons) Yes. The "decommissioning security" is meant  
21 to provide the funds for decommissioning, in the  
22 instance that there isn't a willing and able party, a  
23 responsible party, to pay them when they're needed.

24 Q. So, would you -- But is it safe to say that no entity  
{SEC 2008-04} [Day 1] {03-09-09}

138

[WITNESS PANEL: Decker|Lyons|Mandli]

1 in the State of New Hampshire, any public entity in the  
2 State of New Hampshire should assume any costs  
3 associated with decommissioning a project? That all of  
4 the money should be identified in the -- and set aside  
5 in the Decommissioning Fund?

6 A. (Lyons) Yes. As I discussed with Dr. Publicover this  
7 morning, you know, our view is that we should have as  
8 accurate an estimate of the net decommissioning costs  
9 as possible and have adequate funds to pay those costs  
10 at the time that decommissioning is necessary.

11 Q. And, Mr. Lyons, I know that you talked about Lempster  
12 with Dr. Publicover, but are you aware that, in the  
13 State of Vermont, in the two projects that have -- or,  
14 the one project that's been approved and one that's  
15 under consideration, in both cases the State of Vermont  
16 has stated that all funds will be available before any  
17 construction is undertaken?

18 A. (Lyons) I was not aware of that.

19 Q. And, are you aware of the fact that, in the State of  
20 Vermont, they absolutely do not allow salvage value or  
21 any kind of values to be deducted from the cost of  
22 decommissioning?

23 A. (Lyons) I was not aware of that. I am aware of the

24 Maine permits, where salvage value is taken into  
{SEC 2008-04} [Day 1] {03-09-09}

139

[WITNESS PANEL: Decker|Lyons|Mandli]

1 consideration, and where funding builds up over time.

2 Q. And, so, just to -- you're saying that these numbers  
3 are "invalid" -- or, rather, are "preliminary" and  
4 therefore not to be relied upon. But may I ask where  
5 these numbers came from and who came up with them and  
6 who has validated them?

7 A. (Lyons) They were derived by an engineering consultant  
8 that we hired to begin this process. And, I don't  
9 happen to have the name of the people right now. They  
10 haven't been validated by anyone, because they are not  
11 complete and final. But, again, we would -- we would  
12 anticipate, and have discussed with the County  
13 Commissioners, that these numbers would be developed  
14 jointly with them. You know, our goal is to have  
15 accurate numbers. And, again, as we discussed with Dr.  
16 Publicover this morning, to have them updated to ensure  
17 their accuracy over time. So, it shouldn't be a point  
18 of contention.

19 Q. I absolutely agree with you. So that, if these are  
20 preliminary numbers, just to throw something out at you  
21 in a preliminary -- rather, in an estimate for  
22 decommissioning of a substation, you have a figure here  
23 of "\$7,097". The Deerfield Project in Vermont, they  
24 had estimated that at 125,000. So, do you agree that

{SEC 2008-04} [Day 1] {03-09-09}

140

[WITNESS PANEL: Decker|Lyons|Mandli]

1 there might be some discrepancy?

2 A. (Lyons) I don't think there's a -- I wouldn't call it a  
3 "discrepancy". There may be some differences. I don't  
4 know if the -- again, I don't think this number  
5 represents anything in particular right now. But, in  
6 order to compare this to the -- what substation?

7 Q. Deerfield.

8 A. (Lyons) Deerfield?

9 Q. It's a much smaller project than this.

10 A. (Lyons) Yes, I don't know what the comparability would  
11 be. But we'd certainly like to have that information  
12 as we proceed with this process to develop these  
13 numbers with the County.

14 Q. Now, in terms of the schedule, I guess, if I understand  
15 you correctly, you're saying that "the numbers are  
16 preliminary, but the scope of work is fairly defined."  
17 Is that what you're saying?

18 A. (Lyons) Yes. Well, it's defined insofar as we have  
19 proposed it. And, I should say, we have discussed the  
20 scope of work with the County Commissioners on a number  
21 of occasions, and they have indicated that they believe  
22 that this is a reasonable scope of work.

23 Q. Mr. Lyons, has the County Commissioners ever  
24 decommitted a wind -- decommitted a wind

{SEC 2008-04} [Day 1] {03-09-09}

141

[WITNESS PANEL: Decker|Lyons|Mandi]

1 project?

2 A. (Lyons) Probably not, but I don't know.

3 Q. So, what basis would they have for validating that?

4 A. (Lyons) It's a matter of reason, I think. That we are  
5 proposing the installation of certain pretty well  
6 defined facilities. I mean, they amount to tall steel

7 towers, on concrete foundations and other foundations,  
8 connected by electric wires, some of which are  
9 underground and some of which are overhead and there  
10 are some telephone poles, and then there's a  
11 substation. So, I think it's really a matter of reason  
12 to say "well, decommissioning implies removing that and  
13 then restoring the area. You know, what's a reasonable  
14 project removal scope?" I don't think you need to have  
15 done it once to be able to figure that out.

16 Q. Mr. Lyons, I don't see anywhere in the decommissioning  
17 schedule that you have there that talks about "removing  
18 the roads"?

19 A. (Lyons) That's correct. And, that's something that we  
20 discussed explicitly with them, that we would not  
21 propose removing the roads. And, we would leave them  
22 their for public and private use.

23 Q. We will discuss the road, the size of the roads on  
24 Wednesday, when Mr. LaFrance is here. But that is a

{SEC 2008-04} [Day 1] {03-09-09}

142

[WITNESS PANEL: Decker|Lyons|Mandli]

1 fairly significant infrastructure that will be left  
2 intact.

3 A. (Lyons) Yes. If I could just respond to that. I think  
4 it's important to remember that the roads that we're  
5 proposing to put in would be at grade, they would be  
6 gravel roads. And, as part our mitigation plan with  
7 New Hampshire Fish & Game, at the high elevations, they  
8 would be revegetated to 12 feet wide. And, --

9 Q. Which roads would be revegetated?

10 A. (Lyons) The access roads at high elevation.

11 Q. Not those between the turbines?

- 12 A. (Lyons) Yes.
- 13 A. (Decker) Those are the access roads.
- 14 A. (Lyons) Access roads at high elevation, yes. And, so,  
15 I think, you know, and this was one of the things we  
16 discussed with the Commissioners is that, at some point  
17 removing things that are as benign as that actually  
18 causes more environmental damage than just leaving them  
19 in.
- 20 Q. I have no way of validating that. I can appreciate you  
21 saying that, but it's beyond what --
- 22 A. (Lyons) I mean, it would seem to be a massive  
23 environmental disruption to go in and remove all of  
24 those roads and all of the culverts and all of the
- {SEC 2008-04} [Day 1] {03-09-09}

143

[WITNESS PANEL: Decker|Lyons|Mandi i]

- 1 other wetlands improvements associated with the  
2 project.
- 3 Q. I can tell you that the other --
- 4 MR. PATCH: Mr. Chairman, I'm afraid  
5 we're engaging in a debate here, instead of a question and  
6 answer. I think the purpose of cross-examination is for  
7 Ms. Linowes to ask questions, not for her to provide  
8 testimony. I'm fearful that's what she's trying to do.
- 9 CHAIRMAN GETZ: Well, I think in this  
10 instance there was a question asked and answered, and then  
11 another answer along the same lines. I think we're within  
12 the bounds of cross for the moment, but let's move ahead.
- 13 MS. LINOWES: Okay. Thank you, Mr.  
14 Chairman. I have the last set of questions, and then the  
15 System Impact Study.
- 16 BY MS. LINOWES:

17 Q. This is a little bit more general. Can you, anyone on  
18 the board -- the panel, explain the difference between  
19 an energy resource and a capacity resource for electric  
20 generation?

21 A. (Lyons) Yes. A "capacity resource" is a resource that,  
22 to some defined extent, can be depended upon to provide  
23 electric generation at a given point in time. And,  
24 when I say "to some extent", there's kind of a

{SEC 2008-04} [Day 1] {03-09-09}

144

[WITNESS PANEL: Decker|Lyons|Mandli]

1 continuum. Some resources have extremely high capacity  
2 value because they can be dispatched on short notice  
3 and be fully available in a quick period of time,  
4 whenever they're needed. And, you know, a good example  
5 of that would be a simple cycle gas turbine.

6 With a wind energy facility, a wind  
7 energy facility is determined to have capacity value at  
8 some significant, you know, difference from its nominal  
9 generating capacity rating, notwithstanding the fact  
10 that it's an intermittent or a stochastic resource.  
11 And, the capacity value of the resource is determined  
12 by, in this case, by the ISO, in accordance with their  
13 methodology.

14 So, notwithstanding the fact that the  
15 wind energy facility is, you know, an intermittent  
16 resource, there is some predictability to its  
17 availability for generation, and based on the resource  
18 and planning and forecasts. And, so, it is given a  
19 capacity rating by that formula.

20 Now, the same resource can be both a  
21 capacity resource and an energy resource, of course. A

22 pure capacity resource would be a generator that is  
23 permanently on standby and never actually generates.  
24 But it is not -- it's not a matter that you would be  
{SEC 2008-04} [Day 1] {03-09-09}

145

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 either an energy or a capacity resource. Any given  
2 resource can be both.  
3 Q. Okay. So, then, you're saying wind is both an energy  
4 and a capacity resource?  
5 A. (Lyons) Yes, ma'am. And, we actually have a bid into  
6 the Forward Capacity Market in New England and have  
7 qualified for that.  
8 Q. Do you know how much?  
9 A. (Lyons) I don't know that that's a matter for me to  
10 say, actually. I think it is confidential. But, in  
11 any case, I don't know the number.  
12 Q. Okay. Then, I want to direct you to the last handout,  
13 it's IWA-X-9. And, do you recognize this document  
14 produced by the Department of Energy July 2008?  
15 A. (Lyons) Uh-huh.  
16 Q. Entitled "20% Wind Energy by 2030". This is,  
17 obviously, a subset of that document, it's quite large.  
18 I want to direct your attention to the third page in  
19 that pamphlet, Section 4.1.6.  
20 A. (Lyons) Uh-huh.  
21 Q. Entitled "Integrating an Energy Resource in a Capacity  
22 World". Do you see that?  
23 A. (Lyons) Yes.  
24 Q. Okay. The second sentence, can you read that?

{SEC 2008-04} [Day 1] {03-09-09}

146

[WITNESS PANEL: Decker|Lyons|Mandi i]  
Page 122

- 1 A. (Lyons) Yes, I see that.
- 2 Q. Can you read that please?
- 3 A. (Lyons) "Capacity resources are" --
- 4 Q. No, no. The second sentence.
- 5 A. (Lyons) Oh. "Wind is an energy resource, not a  
6 capacity resource."
- 7 Q. Thank you. And, then, I want to go down to the next  
8 page, and I'll read this section for you. Bottom of  
9 the page: "Wind power cannot replace the need for many  
10 capacity resources, which are generators". Do you see  
11 that? It's about the fifth line, sixth line from the  
12 bottom. "Wind power cannot replace the need for many  
13 capacity resources, which are generators, and  
14 dispatchable load that are available to be used when  
15 needed to meet peak load. If wind has some capacity  
16 value for reliability planning purposes, that should be  
17 viewed as a bonus, but not a necessity." Do you see  
18 that?
- 19 A. (Lyons) I'm sorry, what page are we on?
- 20 Q. The next page.
- 21 A. (Lyons) Oh, the next page. "Wind power cannot replace  
22 the need for many capacity resources, which are  
23 generators, and dispatchable load" --

24 CHAIRMAN GETZ: Well, let's either not  
{SEC 2008-04} [Day 1] {03-09-09}

147

[WITNESS PANEL: Decker|Lyons|Mandli]

1 read it or read it, so Mr. Patnaude knows what to do.

2 WITNESS LYONS: Well, -- I'm sorry.

3 BY THE WITNESS:

4 A. (Lyons) It says "If wind has some capacity value",  
5 which seems to be a little bit inconsistent with the  
Page 123

6 statement on the prior page, which said that it had "no  
7 capacity value".

8 BY MS. LINOWES:

9 Q. No, I believe it's saying that "if, by chance, it  
10 happens to generate when we need it, it's purely by  
11 accident." It's "a bonus".

12 A. (Lyons) I see that, yes.

13 Q. Mr. Lyons, I just have one question for you. Will this  
14 project that you're producing -- that you are  
15 interested in installing would ever negate the need to  
16 build more capacity resources in the New England  
17 region?

18 A. (Lyons) This particular project?

19 Q. Any wind project or this project?

20 A. (Lyons) No.

21 Q. Will a biomass facility that's built in that area  
22 potentially negate the need to build another capacity  
23 resource in the region?

24 A. (Lyons) I don't -- I don't know the answer to that. I  
{SEC 2008-04} [Day 1] {03-09-09}

148

[WITNESS PANEL: Decker|Lyons|Mandli]

1 know that a biomass project probably has less capacity  
2 value, in terms of dispatchability, than a simple cycle  
3 gas generator, for instance. So, I don't -- I don't  
4 know. I know that biomass projects have more capacity  
5 value than wind energy.

6 MS. LINOWES: Thank you very much. And,  
7 my other set of questions relate to the System Impact  
8 Study. So, I don't know if you want to go into nonpublic  
9 for that?

10 CHAIRMAN GETZ: Well, is it clear that  
Page 124

11 that involves confidential information that should be on  
12 the confidential record?

13 MR. PATCH: I believe so, Mr. Chairman.  
14 We had submitted an exhibit, for which we had requested  
15 confidential treatment. And, it was in Appendix 54, which  
16 would have been included with Volume 6, which is  
17 Petitioner 2.2. And, that is not the actual System Impact  
18 Study, but it's the ISO Status Report on the System Impact  
19 Study. And, so, if she has questions about that appendix,  
20 then, presumably, they relate to confidential material.

21 CHAIRMAN GETZ: Okay. Let's handle it  
22 this way then. I think this would be a reasonable time to  
23 take the afternoon recess. And, then, and we'll also  
24 avoid the issue of having to ask people to leave the room.

{SEC 2008-04} [Day 1] {03-09-09}

149

[WITNESS PANEL: Decker|Lyons|Mandli]

1 We'll take a recess. We'll come back at 3:30. We will  
2 begin with the materials that are confidential. And, we'd  
3 just ask that, if you haven't signed -- if you're not a  
4 party and you haven't signed a confidentiality agreement  
5 in this proceeding, that you absent yourself from the  
6 hearing room. We'll address Ms. Linowes' issues about the  
7 ISO study. And, then, we'll -- I guess then we could pick  
8 up Mr. Roth's particular question that he had mentioned  
9 earlier today, and then we'll finish with questions, we'll  
10 go back on the public record, have the Committee ask  
11 questions of the panel, and then see if we get to  
12 redirect. So, we'll take a recess.

13 But one piece of housekeeping that I  
14 also want to get on the record. The doors out front close  
15 at 4:30. We will have somebody at our front doors after

16 4:30. If you -- And, I'll also put a sign out front, if  
17 you leave the building, and somebody is outside the  
18 building and wants to come in, there will be a phone  
19 number to call at the front desk, and somebody will let  
20 you into the building to make sure that there's public  
21 access to any hearings that are going to go on after 4:30.  
22 Today, I expect to close the day somewhere between 5:00  
23 and 5:30, depending on where we are with the witnesses.

24 So, with that, we'll take the afternoon  
{SEC 2008-04} [Day 1] {03-09-09}

150

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 recess. We'll resume at 3:30. Thank you.

2 (Recess taken at 3:00 p.m.)

3 (Hearing to resume at 3:30 p.m. under a sealed record.)

4 \* \* \*

5 (Pages 151 through 226 of this hearing  
6 transcript are contained under separate  
7 cover designated as "Confidential".)

8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

21  
22  
23  
24

{SEC 2008-04} [Day 1] {03-09-09}

227

[WITNESS PANEL: Decker|Lyons|Mandli]

1 (The hearing transcript resumes on the  
2 public portion of the record.)

3 CHAIRMAN GETZ: Okay. We're back on the  
4 record. And, we finished the questions that were of a  
5 confidential nature. I guess, Mr. Iacopino, is there  
6 anyone else that was out of the room that may be --

7 MR. IACOPI NO: Not that I saw. I  
8 announced that we were back on the public session when I  
9 walked out there. Just the folks that came back in the  
10 room.

11 CHAIRMAN GETZ: Okay. Then, we'll turn  
12 to -- do you have any questions for this panel,  
13 Mr. Seiler?

14 MR. SEILER: Yes, I do.

15 CHAIRMAN GETZ: Okay. Let's hear them.

16 BY MR. SEILER:

17 Q. I'd just like to go back to earlier this morning, in  
18 the context of the questions earlier this morning, not  
19 in the SIS or the financials or anything else. You  
20 indicated that you went from "35,000 homes" that would  
21 be powered by wind" to "40,000 homes", which is  
22 approximately a 15 percent increase in the number of  
23 houses that you -- this project would serve. How did  
24 you arrive at that figure? Does that increase the

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandi]

- 1 annual estimated energy output of 300 million  
2 kilowatt-hours?
- 3 A. (Decker) No. What I was doing was providing a  
4 clarification that is consistent with the Application  
5 itself. I think it is found on Page -- let me find the  
6 page number for you, Farrell.
- 7 Q. That was in the original Application?
- 8 A. (Decker) It's in the original Application. I just  
9 incorrectly referenced it. I thought of "35 percent  
10 capacity factor" and I said "35,000 homes" when I wrote  
11 it. It should say "40" to be consistent with the  
12 Application.
- 13 Q. Okay. Well, doing quick math, if you had 300 million  
14 kilowatt-hours as your annual energy estimate, that's  
15 roughly 7,500 kWh per --
- 16 A. (Decker) Per household.
- 17 Q. -- per household.
- 18 A. (Decker) Yes.
- 19 Q. That 7,500 kW figure is rather high in terms of what  
20 the annual energy consumption of a typical, say,  
21 residential customer who lives in New Hampshire, isn't  
22 it?
- 23 A. (Decker) I believe we used the 750 [7,500?] kW number  
24 in how we determined it. But I don't know what -- is

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandi]

- 1 there another number that you are --
- 2 Q. Well, to figure it out, I looked at it, I think it  
3 comes from OCA, is 6,000 kilowatt-hours.

- 4 A. (Decker) Okay.
- 5 Q. So, if you divide that 6,000 into 300 million, you're
- 6 really talking 50,000 homes per year, not 40,000 homes.
- 7 Would that be feasible?
- 8 A. (Decker) Yes. If people are conserving more and we can
- 9 service more load, yes, that would cover more homes,
- 10 that would be great.
- 11 Q. Okay. Just a couple of quick updates on the Gittel
- 12 Report. Do you see any changes in the figures that are
- 13 provided by Ross Gittel in that UNH report?

14 MR. ROTH: Objection. The Gittel

15 Report is not appropriate for cross-examination. It's not

16 been introduced by anybody yet. I mean, it's in the

17 exhibit binder. But, he's trying to get it clarified or

18 something, but we haven't heard anybody bring it on.

19 MR. SEILER: I thought it was part of

20 the docket?

21 CHAIRMAN GETZ: Well, it's been admitted

22 as an exhibit, and there's been an objection to include

23 it, and that objection has been overruled. I'm not sure

24 where Mr. Seiler is going with his question, but --

{SEC 2008-04} [Day 1] {03-09-09}

230

[WITNESS PANEL: Decker|Lyons|Mandli]

1 MR. SEILER: Well, I'm actually --

2 CHAIRMAN GETZ: Well, Mr. --

3 MR. SEILER: I'm trying to get a

4 clarification from someone --

5 CHAIRMAN GETZ: Yes, let me finish

6 talking. Let's do that. It's been a long day, and we've

7 had a lot of people talking over one another. And,

8 Mr. Patnaude is having, I imagine, a real challenge trying

9 to get all the conversations down on paper.  
10 What I was going to say is, I'm going to  
11 permit the question, because the report hasn't been  
12 excluded. And, we'll see where the question goes.

13 BY MR. SEILER:

14 Q. My understanding is that there will be six permanent  
15 jobs created as a result of this project. Is that --  
16 that's in the Gittell Report, is that correct?

17 A. (Lyons) Yes.

18 A. (Decker) Yes.

19 Q. Okay. Of those six jobs, how many will be permanent  
20 jobs after the contract is ended, the O&M contract with  
21 your -- with Vestas? In other words, Vestas, I assume,  
22 is going to provide one, two, three people of those six  
23 jobs?

24 A. (Mandli) In the beginning, Vestas will probably have  
{SEC 2008-04} [Day 1] {03-09-09}

231

[WITNESS PANEL: Decker|Lyons|Mandli]

1 four people on site.

2 Q. Of the six will be -- four of the six will be Vestas?

3 A. (Mandli) No, actually, the first three years, we'll  
4 have more than six people on-site. Because Vestas will  
5 have their folks on-site, probably four technicians and  
6 one manager, and we'll start off, that first three  
7 years, while they're on-site, with two technicians, a  
8 manager, and an admin. So, we'll have four. So, it  
9 will be a total of --

10 Q. So, it will be four from --

11 CHAIRMAN GETZ: Mr. Seiler, let him

12 finish his answer, so we can get everything on the record.

13 BY THE WITNESS:

14 A. (Mandli) I'm sorry. We'll have four people from Noble  
15 on-site the first three years. There will be a plant  
16 manager, two technicians, and an admin. And, then,  
17 Vestas will have their technicians, four, a plant  
18 manager, and I don't know if they will have an admin.  
19 or not. But, normally, it will be that first three  
20 years, because we'll have two crews on-site, we'll have  
21 more folks. But, long-term jobs, from year 3 through  
22 25, will be six Noble employees full-time assigned to  
23 the Granite Renew -- Reliable Project, sorry.

24 BY MR. SEILER:

{SEC 2008-04} [Day 1] {03-09-09}

232

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. So, the \$275,000 payroll is for Noble/GRP people. So,  
2 the Vestas people will be covered under your O&M  
3 umbrella contract?  
4 A. (Mandli) That is affirmative. The first three years we  
5 are relegated to pay Vestas so much per turbine per  
6 year while they -- in their warranty period. And, it's  
7 a three-year obligation for us to pay them to operate  
8 the park. Now, the people that we have on-site will  
9 shadow Vestas, but also be reliable for the maintenance  
10 of our BOP, which is substations, whatever --  
11 everything else non-turbine.  
12 Q. So, I take it that the six folks who are going to be  
13 aggregating to this \$275,000 payroll is actually about  
14 50 percent above the average wage in Coos County?  
15 A. (Mandli) I can't answer the average wage. But I know  
16 what we're going to be paying for technicians.  
17 Q. Okay. In the Gittell Report, they also talk about --  
18 he also talks about "72 induced jobs", in other words,

- 19 these are people who buy groceries or stay in motels or  
20 whatever. Is that 72? That's the number that I have.
- 21 A. (Decker) Yes, that's using a multiplier effect that  
22 Ross Gittell used to describe and calculate the induced  
23 economic impacts of this project.
- 24 Q. So, those 72 induced jobs are there for the duration of  
{SEC 2008-04} [Day 1] {03-09-09}

233

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 the Project term, 15, 20 years, whatever the figure is?
- 2 A. (Decker) Yes.
- 3 Q. Okay. Now, the figure of 500 construction jobs over  
4 two years. Is that 250 each year? Is that the 500?
- 5 A. (Decker) I believe, yes, you're referring to the  
6 construction jobs as being direct and induced, is that  
7 correct?
- 8 Q. I thought the construction jobs were different.  
9 There's a third category of construction short-term, a  
10 two year period, 500 jobs?
- 11 A. (Lyons) I believe those are 500 full-time equivalents.
- 12 Q. Full-time, FTEs, right?
- 13 A. (Lyons) Yes.
- 14 Q. Full-time equivalents at the site. So, if your  
15 Project, as you say in your Application, is going to  
16 generate 300 million kilowatt-hours, at what point does  
17 the generation of that amount of electricity reduce the  
18 need for electrical generation from Merrimack?
- 19 A. (Decker) I don't know. I mean, as I described earlier,  
20 that wind power is a price taker. And, we are a  
21 cheaper source of -- a cheap source of power for power  
22 generation. So, once we build the infrastructure, we  
23 will sell it to the market at the market rate.

24 Q. So, in other words, there would be -- at some point,  
{SEC 2008-04} [Day 1] {03-09-09}

234

[WITNESS PANEL: Decker|Lyons|Mandli]

1 the electricity generated by your project would be  
2 competing for Merrimack power?

3 A. (Decker) Potentially.

4 Q. Potentially. I see. I just have a couple of questions  
5 on the decommissioning. I'm not really sure if I  
6 understand it that, at the end of the period of time,  
7 do you scrap out those turbines? I mean, you just kind  
8 of take them down, put them in a pile, and somebody  
9 hauls them off or?

10 A. (Lyons) Well, in the case --

11 A. (Mandli) This is a very good question, because a lot of  
12 the projects that are on line right now are less than  
13 10 years old. But the plan is that, after 25 years,  
14 they will try to reuse what they can. But, for the  
15 most part, we would hope in 25 years we would have  
16 better technology. And, the towers that we install for  
17 a Vestas V90 or a GE 1.5 are specific to the turbine  
18 that you've got on there. So, a lot of that stuff will  
19 be scrapped as salvage value.

20 Q. In other words, strictly as a value of the metal, for  
21 example?

22 A. (Mandli) Exactly. And, there's quite a bit of value  
23 there. A lot of these transformers, these pad mounts  
24 -- the pad mount transformers that are step-ups, some

{SEC 2008-04} [Day 1] {03-09-09}

235

[WITNESS PANEL: Decker|Lyons|Mandli]

1 of those units have copper in them, and the salvage  
2 values, you know, of copper is pretty high.

- 3 Q. But those kind of values would fluctuate.
- 4 A. (Mandli) Exactly. They're commodity prices.
- 5 Q. Would it be -- It seems to be that, for wind turbines,  
6 actually, for Vestas turbines that are 25 years old,  
7 have a substantial resale value? In other words, as  
8 these projects in California are being repowered and  
9 being upgraded, people are coming along and taking  
10 these, the Vestas machines, say, out of Tehachapi, and  
11 actually they might even want to come to New Hampshire,  
12 from what I'm told. Is that a possibility in 25 years  
13 from now?
- 14 A. (Mandli) That's a possibility. There's a cost to the  
15 doing that. I know a gentleman in the Dakotas that has  
16 actually taken all the V17s, and he's refurbishing  
17 them, changing. Yes, there's a possibility that, you  
18 know, there's going to be some generation value to  
19 these. As far as the big developers now, by that time  
20 I hope that we're doing it with smaller rotors and  
21 bird-friendly things in 25 years. Who knows what we'll  
22 have. But, yes, there's a good possibility that these  
23 will be of value to somebody. But I'm not sure what --  
24 what parts are going to be salvageable in 20 years.

{SEC 2008-04} [Day 1] {03-09-09}

236

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 Hope to not be around working on them in 25 years. I  
2 want to be retired some day.
- 3 Q. Well, it's -- I have some information that says that  
4 basically the -- what we call "scrapped" or  
5 "recyclable", or "resalable" Vestas machines are  
6 anywhere from 8 to 10 percent of capital cost in 1985  
7 dollars, when they were installed at the Zond wind

8 park, in Tehachapi, California. Whereas other models,  
9 many of which have gone bankrupt or have been absorbed,  
10 are anywhere from 1 to 3 percent of capital value. In  
11 other words, the Vestas seems to have a brand that -- a  
12 quality that means 25 years from now --

13 MR. ROTH: Mr. Chairman?

14 CHAIRMAN GETZ: Yes. I was hoping there  
15 was a question here somewhere. But it sounds like --

16 MR. SEILER: Oh, I see. Oh, you want me  
17 to phrase it in a question, okay.

18 BY MR. SEILER:

19 Q. Is it possible that 25 years from now the Vestas V90s  
20 will have a substantial resale value, as opposed to  
21 scrap value?

22 A. (Mandli) There is a possibility that they will have  
23 value.

24 Q. Any idea how much that might be?

{SEC 2008-04} [Day 1] {03-09-09}

237

[WITNESS PANEL: Decker|Lyons|Mandli]

1 A. (Mandli) Right now I'd be taking a guess. I couldn't  
2 tell you.

3 MR. SEILER: Those are my questions,  
4 sir.

5 CHAIRMAN GETZ: Okay. I think the only  
6 -- I assume, Mr. Roth, you have substantial cross, hour or  
7 more?

8 MR. ROTH: Yes.

9 CHAIRMAN GETZ: So, I don't think  
10 there's reason to move into that at this point, that we  
11 should probably pick up tomorrow with Mr. Roth for this  
12 panel. And, if I -- I don't think I've missed anybody,

13 but it would be Mr. Roth to finish his cross-examination,  
14 then questions from the Committee, and then an opportunity  
15 for redirect. My understanding then is after the panel  
16 would be Vissering, and then Luhman, and they will be both  
17 be available tomorrow?

18 MS. GEIGER: Yes.

19 CHAIRMAN GETZ: And, then, if we make  
20 some progress, that possibly Pelletier and Gravel on for  
21 tomorrow.

22 MS. GEIGER: Uh-huh.

23 CHAIRMAN GETZ: And, then, on Wednesday,  
24 if we get through all of those witnesses, we'd begin with

{SEC 2008-04} [Day 1] {03-09-09}

238

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 LaFrance and Lobdell. I want to try and get a feel for  
2 the rest of the week. And, then, we have the -- I guess  
3 Mariani and Sanford, Mr. Roth, they will be available on  
4 Wednesday?

5 MR. ROTH: Yes.

6 CHAIRMAN GETZ: My understanding was  
7 Ms. Keene had some concerns about when she could be here.  
8 I guess I'd ask counsel --

9 MR. IACOPI NO: Ms. Keene wanted to be  
10 present in order to cross-examine the Fish & Game  
11 witnesses.

12 CHAIRMAN GETZ: Would it make sense to  
13 try and start Friday morning with -- is it the  
14 Staats/Kelly panel, and then move to Ms. Keene after that?

15 MR. MULLHOLAND: Mr. Chairman, my  
16 witnesses can be here Wednesday, Friday, whenever.

17 CHAIRMAN GETZ: Okay. Well, let's --

18 and I guess I would ask Mr. Iacopino to reach out to  
19 Ms. Keene to see if that works, and then that's the way we  
20 would do Friday. And, then, I guess we would need to,  
21 depending on how quickly or slowly we move with  
22 cross-examination tomorrow and Wednesday, then Dr.  
23 Publicover and Ms. Linowes would either be on Wednesday,  
24 if possible, and, if not, then on Friday. Does that work

{SEC 2008-04} [Day 1] {03-09-09}

239

[WITNESS PANEL: Decker|Lyons|Mandli]

1 for everyone? Any other thoughts or concerns about  
2 scheduling for the remainder of the week?

3 MR. PATCH: I have one, Mr. Chairman. I  
4 just need to check with Mr. Mandli on his availability  
5 tomorrow morning.

6 CHAIRMAN GETZ: Well, let's go off the  
7 record for a second for this part.

8 (Brief off-the-record discussion  
9 ensued.)

10 CHAIRMAN GETZ: Okay. Let's go back on  
11 the record. All right. Turning to Mr. Roth then, then he  
12 will question Mr. Mandli, in hopes of permitting Mr.  
13 Mandli not to reappear tomorrow.

14 MR. ROTH: Okay.

15 BY MR. ROTH:

16 Q. Mr. Mandli, in your testimony you indicated that, I  
17 believe, if I understood it correctly, that you used to  
18 work for FPL?

19 A. (Mandli) Yes, sir.

20 Q. That's Florida Power & Light?

21 A. (Mandli) Worked for the non-regulated side, FPL Energy,  
22 yes, sir.

23 Q. Okay. Doing renewables?

24 A. (Mandli) Operating wind generation facilities in the  
{SEC 2008-04} [Day 1] {03-09-09}

240

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Midwest, yes.

2 Q. So, in your capacity working for FPL, did you have any  
3 -- obtain knowledge about how FPL financed its  
4 projects?

5 A. (Mandli) Yes, I know how FPL finances their projects.

6 Q. And, how did they finance their projects?

7 A. (Mandli) Initially, they're financed off the balance  
8 sheet, and then they turn around and debt --  
9 nonrecourse debt finance the projects after they have  
10 been operating.

11 Q. Okay. So, if they finance off the balance sheet, that  
12 means, essentially, when they want to begin  
13 construction, they have the money, they write checks,  
14 right?

15 A. (Mandli) That is correct, sir.

16 Q. Okay. Turning your attention to the Altona situation.

17 A. (Mandli) Yes, sir.

18 Q. Now, I know you said "it's under investigation" and you  
19 didn't want to talk about what you know about it. But  
20 you've probably seen that sort of situation happen in  
21 other places?

22 A. (Mandli) What type of situation?

23 Q. Where a tower collapses and breaks in half like that.

24 A. (Mandli) I have never seen one come down.  
{SEC 2008-04} [Day 1] {03-09-09}

241

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 Q. So, I guess I'd ask it, have you seen, and it's on  
2 YouTube, there's kind of an interesting video of a  
3 Nortrac failure in Denmark last year. Did you see that  
4 YouTube video?
- 5 A. (Mandli) That's a Nordtank 500.
- 6 Q. Nordtank 500?
- 7 A. (Mandli) Yes. That's a -- Nordtank was part of  
8 NEG-Micon, who I worked for for awhile.
- 9 Q. Okay.
- 10 A. (Mandli) Yes. I've seen that video, yes.
- 11 Q. So, that was one of the turbines that the company you  
12 worked for operated or constructed?
- 13 A. (Mandli) That was the precursor to NEG-Micon. There  
14 was a Nordtank Energy Group, which was NEG. And, then,  
15 there was Micon. They combined to make "NEG-Micon".
- 16 Q. Okay. For the members of the Committee that haven't  
17 seen that video, can you describe it?
- 18 A. (Mandli) From the video, because I don't have the root  
19 cause analysis, it was a turbine that -- it was a  
20 runaway turbine. The rotor sped up to close to 50  
21 RPMs, and, "RPMs", revolutions per minute, and one of  
22 the blades hit the tower and took the turbine down.  
23 That's a vintage, probably 2000 -- 1997, 1998 turbine.  
24 Completely different than what we're putting up today.

{SEC 2008-04} [Day 1] {03-09-09}

242

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 It's got stall-regulated blades, which are not variable  
2 pitch. And, a stall-regulated blade requires a  
3 hydraulic system in the hub to pitch the last third of  
4 the blade 90 degrees to the wind to shut down the  
5 rotor, slow the rotors down.

- 6 Q. And, were there any -- to your knowledge, were there  
7 any employees in that turbine tower at the time that  
8 happened?
- 9 A. (Mandli) There were no -- There were no employees in  
10 the tower.
- 11 Q. Okay. And, so, the blade struck the tower?
- 12 A. (Mandli) Yes, sir.
- 13 Q. Okay. And, so, is it possible that something like that  
14 is what happened in Altona?
- 15 A. (Mandli) Completely different turbine, completely  
16 different manufacturer, completely different pitch  
17 system.
- 18 Q. What could cause a turbine tower to break like that and  
19 drop?
- 20 A. (Mandli) Could be one of many things. And, I'm not  
21 going to speculate on what took the tower down in  
22 Altona. I've already said that.
- 23 Q. But, in general, what could cause a turbine tower to  
24 break. I mean, you said "there are many things". What

{SEC 2008-04} [Day 1] {03-09-09}

243

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 are some of them?
- 2 A. (Mandli) A meteor strike.
- 3 Q. A meteor strike?
- 4 A. (Mandli) Yes.
- 5 Q. You think that's -- You think that's likely?
- 6 A. (Mandli) No.
- 7 Q. What else?
- 8 A. (Mandli) A malfunction in the control system.
- 9 Q. How would a malfunction in the control system cause the  
10 tower to break in half?

- 11 A. (Mandli) If the turbine doesn't shut down when it's  
12 supposed to shut down, in a fault-type condition, it  
13 could run out of control.
- 14 Q. So, it would overspeed?
- 15 A. (Mandli) Yes.
- 16 Q. Like what happened in Denmark?
- 17 A. (Mandli) Yes. Yes.
- 18 Q. Okay. Any other possible explanations?
- 19 A. (Mandli) You know, we have never seen a hurricane hit a  
20 wind turbine. So, who knows, a hurricane could take --  
21 possibly take a turbine down.
- 22 Q. Okay.
- 23 A. (Mandli) And, I'm not sure that any of them have been  
24 located in hurricane belts.

{SEC 2008-04} [Day 1] {03-09-09}

244

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 Q. If a -- Is the stability of the tower, because I look  
2 at the towers and it's kind of interesting to me,  
3 there's never any guy-wires, and I understand that  
4 that's a good thing, but I'm kind of amazed that they  
5 stand up. Is it sort of like riding a bicycle in a  
6 way, that it's got to be a fairly close balance?
- 7 A. (Mandli) You want to get into structures? The  
8 structure is held up by the actual shape of the tower.  
9 And, it's similar to, if you had a concrete tower,  
10 they're designed based on the thickness of the steel  
11 and the actual shape of the tower. They're not just  
12 strictly a cylinder. They're actually a little conical  
13 shape, so the shape in the tower is designed to handle  
14 the forces that are calculated to be on the top of the  
15 tower.

- 16 Q. If the nacelle or the rotor were to become sort of  
17 out-of-balance, would that cause the tower to be  
18 stressed in a way that it's not designed for?
- 19 A. (Mandli) It takes a severe dynamic imbalance to take a  
20 tower down.
- 21 Q. Okay.
- 22 A. (Mandli) It's a -- a normal imbalance that you'll see  
23 there, the towers are controlled and they're monitored.  
24 It's amazing when you go into a modern wind turbine, a  
{SEC 2008-04} [Day 1] {03-09-09}

245

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 Vestas or a Siemens or a GE, how many different things  
2 they're monitoring at all times. They're more closely  
3 monitored than some of the gas turbines that we've got  
4 running. So, what they're constantly doing is they're  
5 monitoring operating conditions. And, any time an  
6 operating condition gets out of the norm, the turbine  
7 will shut themselves down. And, they shut themselves  
8 down 99.99 percent of the times correctly; sometimes  
9 they don't.
- 10 Q. Okay. Now, the turbine is, the way you're explaining  
11 it, it sounds like the turbine is monitoring itself?
- 12 A. (Mandli) It's monitoring itself. And, on top of that,  
13 there's a SCADA system that all the turbines come into  
14 a main SCADA computer. And, again, the SCADA is an  
15 acronym that the power industry uses for "Supervisory  
16 Control and Data Acquisition systems. And, they're  
17 constantly watching the actual status of your power  
18 plant; whether it's a wind turbine or a hydro plant or  
19 if it's a combined cycle gas plant.
- 20 Q. And, that's done from Plattsburgh, New York?

- 21 A. (Mandli) Our Control Center is in Plattsburgh, New  
22 York.  
23 Q. And, how does the information that's gathered at the  
24 turbine in, you know, for example, at this project, get  
{SEC 2008-04} [Day 1] {03-09-09}

246

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 communicated to Plattsburgh, New York?  
2 A. (Mandli) All of our projects throughout the United  
3 States are interconnected through a T1 transmissions  
4 line. We have multiple T1s running into every  
5 substation.  
6 Q. Okay. So, is the T1 line out there now?  
7 A. (Mandli) Yes.  
8 Q. Okay. So, --  
9 A. (Mandli) Oh, you mean for the project at Coos?  
10 Q. Yes.  
11 A. (Mandli) I'm not sure. I'm not sure if we've looked at  
12 the comms at this point. But we've been able to get T1  
13 lines into every project we've built to this point.  
14 A. (Decker) FairPoint Communication, who is the T1  
15 provider, has been out to the project site with us to  
16 discuss and locate how they can get all the T1s  
17 required for the V90s to interconnect.  
18 Q. Okay. And, so, you're expecting FairPoint to install  
19 the T1 lines for your project?  
20 A. (Decker) They will help put that -- There's a small  
21 segment on Dummer Pond Road that they will allow us to  
22 cut in. And, then, we will be responsible to put all  
23 the fiber optic cable and T1 lines responsible to  
24 manage the windpark, you know, from Dummer Pond Road

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 on, basically, when it gets to the private property,  
2 off the main roads.
- 3 Q. Okay. So, there's -- just so I, -- you know, there is  
4 T1 service up to Dummer Pond Road already?
- 5 A. (Decker) Yes. That was my understanding when the  
6 FairPoint representative came out there, yes.
- 7 Q. Okay. And, what happens if the T1 line or the routers  
8 that the T1 lines use aren't working? How do you  
9 communicate with it then?
- 10 A. (Mandli) And, this is a very good question, because we  
11 used to monitor 7,200 turbines from Juno Beach,  
12 Florida. And, by the way, there isn't one wind turbine  
13 in Florida. What we would do is, if we ever lost comm,  
14 or a hurricane came across the peninsula, we would call  
15 the sites, and the sites would take over, 24 operations  
16 in the sites. And, you would have people in the office  
17 watching from the office and monitoring at that point.  
18 Now, those types of situations are very small. You  
19 know, less than two percent of the time do we ever lose  
20 comm. If we lose comm, then you take over back at the  
21 site. So, you're always monitoring your turbines 24  
22 hours a day.
- 23 Q. When you say "lose comm", you mean "communication"?
- 24 A. (Mandli) Communication via a T1.

{SEC 2008-04} [Day 1] {03-09-09}

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 Q. All right. Now, in terms of the collapse of the tower,  
2 what would, I guess here's the -- you're familiar with  
3 the project site?
- 4 A. (Mandli) Altona?

- 5 Q. No, here.
- 6 A. (Mandli) Yes, I am.
- 7 Q. In Coos?
- 8 A. (Mandli) Yes, I am.
- 9 Q. And, the project is being constructed on top of a  
10 ridge?
- 11 A. (Mandli) Yes.
- 12 Q. With fairly steep slopes dropping off either side of  
13 it, --
- 14 A. (Mandli) Yes.
- 15 Q. -- and with fairly close proximity to some of these  
16 turbines. What would happen if one of those towers  
17 went down here?
- 18 A. (Mandli) One of the reasons we go for setbacks, and  
19 there was a question earlier whether or not I thought  
20 the setbacks I had were sufficient. You know, I'm not  
21 an expert on determining the setbacks. But that's one  
22 of the reasons you, when you build a project, you have  
23 setbacks, from the structures and everything. So that,  
24 if you ever lose a turbine, you have ample room for it

{SEC 2008-04} [Day 1] {03-09-09}

249

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 to come down and come down safely. And, I I'd have to  
2 look at each site in respect to the various slopes. I  
3 think we're set back enough from the slopes that, even  
4 if a turbine comes down, it's going to come straight  
5 down to the ground.
- 6 Q. So, it wouldn't fall off the cliff, so to speak?
- 7 A. (Mandli) Right now, from what I understand, looking at  
8 the maps, I'd have to go out and look at the thing,  
9 walk the site, but, right now, from looking at the maps

10 and the topo, it doesn't look as if any of these  
11 turbines are at risk of, in the unlikely event, and  
12 it's very unlikely, GE has over 130 million operating  
13 hours without dropping a tower. So, when you see a guy  
14 up here that looks like he hasn't sleep for two days,  
15 it's not normal. And, I'm not going to have too many  
16 more of these come down on my shift.

17 Q. Kind of imagine you're not happy about that.

18 A. (Mandli) The bottom line is, it's not a normal  
19 situation. When it does come down, you want to have a  
20 setback.

21 Q. Okay. And, in terms of recovering the turbine and the  
22 tower from the site, when it's on the ground like that,  
23 how do you do that?

24 A. (Mandli) Once all the investigation is complete, you  
{SEC 2008-04} [Day 1] {03-09-09}

250

[WITNESS PANEL: Decker|Lyons|Mandli]

1 start dismantling the tower. You start cutting it into  
2 pieces, and you pick them up on cranes, put them in the  
3 trucks, and they will be salvage, pieces salvaged from  
4 a scrap point of view.

5 Q. So, you would have to bring up heavy equipment, a  
6 crane?

7 A. (Mandli) Not as heavy as what you would have to put it  
8 up, because we'll take it apart in pieces.

9 Q. Okay. And, are you familiar with the project in  
10 Lackawanna?

11 A. (Mandli) Steel Winds?

12 Q. I'm sorry?

13 A. (Mandli) Is that Steel Winds?

14 Q. Yes.

- 15 A. (Mandli) Yes, I am familiar with that project.
- 16 Q. And, are you aware that they had to replace all of the
- 17 turbines there?
- 18 A. (Mandli) Actually, do you know the facts on it or do
- 19 you want --
- 20 Q. No, actually, you could tell me some more about that.
- 21 A. (Mandli) Yes. That's a brand-new technology. That's a
- 22 company called "Clipper".
- 23 Q. Clipper.
- 24 A. (Mandli) Clipper is brand new to the industry. They
- {SEC 2008-04} [Day 1] {03-09-09}

251

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 have had some issues with their gearbox. The gearbox
- 2 design on the Clipper incorporates putting four
- 3 generators on one gearbox. And, anybody that's a
- 4 mechanical engineer is going to wonder how the hell you
- 5 balance four generators across the gearbox, and that's
- 6 what Clipper is asking themselves right now. So, they
- 7 have had them down once. The first time they took the
- 8 gearboxes down is because of planetary bearing
- 9 problems. And, I understand they have some issues with
- 10 those gearboxes again. But it's a brand-new
- 11 technology. That turbine hasn't been operating two
- 12 years yet. They have had some prototypes out in
- 13 Medicine Bow, out in Wyoming.
- 14 Q. So, how many Clippers are out there?
- 15 A. (Mandli) Oh, shoot, they have -- my ex-company has got
- 16 40 of them. So, there's probably well over 100
- 17 Clippers.
- 18 Q. So, over 100 Clippers. And, the Steel Wind has had a
- 19 disproportionate share of problems, apparently?

- 20 A. Steel Winds was the first more than one prototype  
21 installation. There's eight turbines that are right  
22 along there, I think it's Lake Erie.
- 23 Q. Okay.
- 24 A. (Mandli) They have other problems, too. But, you know,  
{SEC 2008-04} [Day 1] {03-09-09}

252

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 I'll let you talk to the people from Clipper.
- 2 Q. Who's actually going to manage this project after it's  
3 constructed?
- 4 A. (Mandli) We'll have a plant manager on-site that we'll  
5 hire from -- hopefully, from local. And, normally,  
6 what I'll do when I hire technicians or plant managers,  
7 I look for somebody that has some good technical  
8 skills. It's nice to get an engineer. But we'll have  
9 a full-time plant manager that's assigned to Granite  
10 Reliable.
- 11 Q. So, it's not going to be you or Pip?
- 12 A. (Mandli) No, no. You don't want me out here. I'm a  
13 guy from Florida. I don't like snow.
- 14 Q. We have an awful lot of it, don't we?
- 15 A. (Mandli) So does the north country in New York. I do  
16 like snow, I'm a skier. So, I was just being  
17 facetious.
- 18 Q. And, now, in your testimony you referred to "faults and  
19 trips". What is that?
- 20 A. (Mandli) As I mentioned, every turbine that's on the  
21 market right now constantly monitors parameters  
22 throughout the whole turbine. They're watching  
23 temperatures of the gear oil, you're looking at  
24 rotational speeds of your big rotor, rotational speeds

[WITNESS PANEL: Decker|Lyons|Mandli]

1 of your generator. I could go on and on. There's a  
2 bunch of different things that we will constantly watch  
3 on the turbines. If any time we get a situation where  
4 the turbine is running outside of specifications, let's  
5 say, a generator RPMs is supposed at run at 1,400 RPMs,  
6 runs 1,500 RPMs. It's going to send a warning and it's  
7 going to shut itself down. And, the way most modern  
8 turbines shut down, is the first thing they do is they  
9 feather their blades, so they're perp -- they're not  
10 perpendicular, but parallel with the wind, and it slows  
11 down the rotor, and they apply a secondary brake, which  
12 is like a disc brake on your car. And, that is what a  
13 "trip" or a "fault" is.

14 Q. Okay.

15 A. (Mandli) I call those "trips". "Faults" are when you  
16 have instabilities on the grid. And, let's say that --  
17 we'll talk about a transmission owner that's not common  
18 to you. Let's say NYPA has an instability on their  
19 grid. Our turbines can take a certain amount of drop  
20 in current or increase in voltage before it shuts  
21 itself down to protect its generator and protect its  
22 internal systems. So, other trips would be, if there's  
23 a lightning strike on a collection system, the circuit  
24 will trip off and it will shut all the turbines down.

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. So, a fair amount can go wrong up there?

2 A. (Mandli) I'm not sure I understand what you mean by "a

3 fair amount could go wrong". What is wrong in your  
4 opinion?

5 Q. Well, you know, you get a lightning strike or you get  
6 power surges or you can have overspeeds.

7 A. (Mandli) Yes, but those --

8 Q. I mean, I'm not trying to put a dark light on it, I'm  
9 just -- but it's complicated, right?

10 A. (Mandli) No. But the thing is, it's the beautiful  
11 thing about modern turbine design. Most times, they're  
12 checking to see instabilities in the system or events  
13 like a lightning strike, lightning strikes will not  
14 shut down turbines. They have lightning dissipation  
15 systems that each blade has a lightning sensor, and  
16 they normally dissipate the lightning down through the  
17 blade, down through the tower to ground. And, the  
18 system doesn't even see a lightning strike. The only  
19 reason we know about it is there's little sensors on  
20 either side of the turbine that checks how many times  
21 the lightning is struck -- the turbine gets struck by  
22 lightning.

23 But we were talking "availability"  
24 earlier. And, the target for most manufacturers to run  
{SEC 2008-04} [Day 1] {03-09-09}

255

[WITNESS PANEL: Decker|Lyons|Mandli]

1 availability is above 95 percent. FPL runs in the 97  
2 percent range. Our targets are above 97 percent. Now,  
3 you don't just start off at 97 percent. There's a  
4 learning curve. And, the first month you shoot for 85,  
5 second month 90, 92, 95, and then from then on you're  
6 expecting 97 present availability. And, that -- I was  
7 questioned about availability. There's system

- 8 availability and there's turbine availability. Most  
9 manufacturers are measured on turbine availability.
- 10 Q. In terms of faults and trips, though, the faults and  
11 trips would affect the availability?
- 12 A. (Mandli) That is correct.
- 13 Q. And, so, your experience in other -- with other  
14 facilities has been that, even with the faults and  
15 trips, you're doing 97 plus availability?
- 16 A. (Mandli) That is correct. That is correct. That is  
17 our target. We haven't run 97 percent for months on  
18 end yet, with our 2007 fleet or our 2008 fleet, but  
19 we're approaching that. Clinton and Ellenburg both  
20 ran, one was 97.2 percent availability last month and  
21 the other one was 96.16. So, we're getting really  
22 close to the availability targets that I'm shooting  
23 for.
- 24 Q. Okay. And, then, I think we probably already addressed  
{SEC 2008-04} [Day 1] {03-09-09}

256

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 this one, but you also mentioned "major component  
2 change-outs".
- 3 A. (Mandli) Yes, sir.
- 4 Q. Is that replacing the gearbox or a generator?
- 5 A. (Mandli) Quickly, on major components, the definition  
6 of "major components", in my eyes, would be gearboxes,  
7 which are the heart of the turbine, but also the  
8 Achilles Tendon. Because, even when they work, they do  
9 phenomenal things, when they go bad, you have to change  
10 them out. So, it would be gearboxes, generators,  
11 controllers, controllers don't require major cranes.  
12 And, then, if you had a blade repair or failure,

13 sometimes it requires you to take the rotor down and  
14 repair a blade.

15 Q. Okay. And, for a major component change-out,  
16 generally, do you need a large crane?

17 A. (Mandli) Yes. Yes.

18 Q. Okay. And, has Noble Environmental seen major  
19 component change-outs anywhere?

20 A. (Mandli) The thing that's unfair about that question is  
21 we've got such a short amount of time. We've got eight  
22 months on the turbines we put on towards the end of  
23 2007. So, no, we have not had a major component  
24 change-out. But you don't expect any major component

{SEC 2008-04} [Day 1] {03-09-09}

257

[WITNESS PANEL: Decker|Lyons|Mandli]

1 change-outs in the first five years of operation.

2 Unless, of course, you're Steel Winds.

3 Q. I mean, that may be good news, that you haven't had a  
4 major component change-out?

5 A. (Mandli) Well, I've got to be careful what I say,  
6 because I don't have wood to knock on right now. But,  
7 yes, it is good news.

8 Q. There is some right next to you.

9 A. (Mandli) Yes. (Witness knocking on the Bench) The  
10 bottom line is, when we put together proformas for  
11 operations, we look at a certain percentage of major  
12 component failures over a 25 year period. And, the  
13 proformas that we present to our financial people have  
14 a certain percentage of gearbox failures, etcetera,  
15 etcetera, based on Wible analysis, I don't know if  
16 anybody understands Wible analysis, but it's a failure  
17 analysis based on failures on a fleet. And, that's

18 what we base our failures of main components on a  
19 fleet.

20 Q. And, in your experience with Florida Power & Light, did  
21 you do major component change-outs there?

22 A. (Mandli) You're talking a fleet of about almost 8,000  
23 turbines. Did we change out main components? Yes, we  
24 did. And, we had turbines that, when you start asking  
{SEC 2008-04} [Day 1] {03-09-09}

258

[WITNESS PANEL: Decker|Lyons|Mandli]

1 about turbines in Vermont, the Zonds, we had Zonds. We  
2 had Vestas V17s, which are little -- I think they're 65  
3 kilowatt turbines. We had KBS-30s. Every type of  
4 turbine that's known to man we had in our fleet. So,  
5 depending on the age of the turbines, yes, we did major  
6 component change-outs.

7 Q. Changing direction a little bit, in terms of your  
8 employment in Coos County, you testified that you were  
9 looking to hire -- you would have six employees at the  
10 facility; a manager, four wind turbine technicians, and  
11 administrative assistant, correct?

12 A. (Mandli) That is correct.

13 Q. Now, you said you'd "hope to hire the manager locally".

14 A. (Mandli) Yes, sir.

15 Q. And, what about the wind turbine technicians?

16 A. (Mandli) We will hire as many technicians -- a lot of  
17 it has to depend on skill levels. If I can't go to an  
18 area and I can't find people that have basic electrical  
19 skills or mechanical millwright skills, it's really  
20 hard to -- you can train people, but you got to have a  
21 basis to understand basic electrical and mechanical.  
22 So, we like to get people from junior colleges and

23

people with skills.

24

And, to this important, in northern New  
{SEC 2008-04} [Day 1] {03-09-09}

259

[WITNESS PANEL: Decker|Lyons|Mandli]

1

York, all but one person has come from the communities  
2 of Plattsburgh, Altona, Ellenburg, Ellenburg Circle,  
3 all around that area. And, that's a really good thing,  
4 because this is an extremely competitive business. As  
5 soon as I spend the money to train a technician to be a  
6 "wind" technician, you could go down to Schenectady  
7 right now, where GE's training is, and my folks are  
8 being approached as I've sent them down there for  
9 training to be hired for other sites. So, it's very  
10 competitive. So, if I can hire people from Coos  
11 County, people are living in Coos County because they  
12 love Coos County. They're less apt to be hired away.  
13 And, that's my goal. I want to hire as many people  
14 locally as possible, because I want them to work there.

15 Q. Okay.

16 A.

(Mandli) And, because -- I was asked a question about  
17 wages. We don't -- We don't pay the highest wage in  
18 the wind industry, but I'm darn close. Because, once I  
19 train a person, it costs me a lot of money to train  
20 that person and get them to be a troubleshooter. So,  
21 we pay a very competitive salary, and we have a very  
22 competitive benefit package.

23 Q.

The, last question, maybe anybody can answer. What  
24 happened to Mr. Reading?

{SEC 2008-04} [Day 1] {03-09-09}

260

[WITNESS PANEL: Decker|Lyons|Mandli]

1 A.

(Mandli) Chip Reading?

- 2 Q. Yes.
- 3 A. (Mandli) Chip Reading, I think, left to pursue other
- 4 --
- 5 A. (Decker) Opportunities.
- 6 A. (Mandli) Opportunities, yes. He's a good guy.
- 7 Q. Oh, let me -- I'm not finished completely, but, in
- 8 terms of the Altona, did you go there?
- 9 A. (Mandli) Have I been to the site?
- 10 Q. Did you go there after the turbine fell?
- 11 A. (Mandli) No, I have not been there.
- 12 Q. Okay. And, did you look at the -- you looked at the
- 13 photograph that was provided?
- 14 A. (Mandli) Yes, I've seen that photo before I got here
- 15 today. Yes, sir.
- 16 Q. Okay. What's the pink stuff that's around on the snow?
- 17 A. (Mandli) That's the regular ground out there that
- 18 hasn't been -- we finished that project up in December,
- 19 so they haven't gone back and planted the soil around
- 20 there. That's the normal soil.
- 21 Q. So, this pink color, this area, that's just soil?
- 22 A. (Mandli) Yes, it's soil, that you're seeing melting
- 23 there, we had 50 degrees on Friday. The only fluids
- 24 that came off that turbine are, if you look to the far

{SEC 2008-04} [Day 1] {03-09-09}

261

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 -- can you hold -- I don't have that picture. Where
- 2 your finger is sticking down there?
- 3 Q. Yes.
- 4 A. (Mandli) And, you follow it straight down about six
- 5 inches, there's your nacelle and your rotor.
- 6 Q. Oh, over here?

7 A. (Mandli) Yes. That's the only place we've had any oil  
8 spill. And, once we extinguished the fire, we went out  
9 there and we've actually sucked up 50, 50 gallons of  
10 oil already.

11 Q. Okay. And, these green things, are that the blades?

12 A. (Mandli) That's what's left of one of the blades, yes.

13 Q. Okay.

14 A. (Mandli) The one thing that I know in one of my  
15 answers, they asked about oil spills. We have to have  
16 an SPCC Plan. And, "SPCC", the acronym is "Spill  
17 Protection, Control and Containment". We will have an  
18 SPCC Plan for the project at Granite Reliable. And,  
19 what that does is it takes a look at your actual layout  
20 of the project. It looks at any of the transformers  
21 you've got on site. The beautiful thing about a Vestas  
22 V90 is they don't have pad-mount transformers down at  
23 the bottom of the tower. And, the pad-mount  
24 transformers contain oil. So, there's an issue that

{SEC 2008-04} [Day 1] {03-09-09}

262

[WITNESS PANEL: Decker|Lyons|Mandli]

1 you don't have to worry about the oil containment of a  
2 transformer. We don't have that with this project.  
3 But they will look at our substation transformer, which  
4 is -- I haven't seen the size of this one, but  
5 anywheres from 12,000 to 13,000 gallons of mineral oil  
6 is a coolant in the transformer. So, when they build  
7 that substation, they will build a -- I call it a  
8 "swimming pool", it's a containment issue around it  
9 that, if there's ever a leak, it contains it into a  
10 concrete swimming pool that we can pump out easily.

11 Everything else, you've got turbines  
Page 156

12 that have fluids in it. And, I was asked the question,  
13 "how many gallons in a GE 1.5?" Which is a completely  
14 different animal than what we're going to install in  
15 Granite. I think it's about 100 gallons of oil. If  
16 you do have a turbine go down, that is the limitation  
17 of your spill and that oil. And, if there's not a  
18 fire, we've got ways to pump the oil out very quickly.  
19 But we're not in the business of oil spill remediation.  
20 If we have a spill, we have a professional organization  
21 that gets called that comes out there, and remediates  
22 both the spill, either contains it or pumps the oil up.  
23 Q. With respect to the Spill Prevention Control Plan, --  
24 A. (Mandli) Uh-huh.

{SEC 2008-04} [Day 1] {03-09-09}

263

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. -- how come you don't have that now?  
2 A. (Mandli) The reason we don't have it now is, it has to  
3 be signed off by a PE in the state. And, they won't  
4 sign off on a plan until they can go out there and see  
5 where your actual turbine locations are going to be,  
6 the design of your actual substation. So, we usually  
7 -- the law says that you've got six months after COD to  
8 have a finalized SPCC Plan. I can show you copies of  
9 SPCC Plans, because it's kind of a boilerplate type of  
10 a plan. But I cannot get it stamped and approved by  
11 the PE until they have a chance to walk the site and  
12 actually see where these turbines are finally built,  
13 versus where we said they were going to be built.  
14 Q. And, you don't have a police and emergency plan yet  
15 either, right?  
16 A. (Mandli) No, we don't.

17 Q. And, how come you don't have that now?  
18 A. (Mandli) We want to know where our office is going to  
19 be. We want to know how -- because we haven't  
20 finalized the plan of where our service building is  
21 going to be. But that would be something that a plant  
22 manager, when he gets on the site, would set up there.  
23 We'd send him to the local fire departments, the police  
24 departments, and establish a communication channel

{SEC 2008-04} [Day 1] {03-09-09}

264

[WITNESS PANEL: Decker|Lyons|Mandli]

1 between the local people and the plant manager.  
2 Q. So, that will be done once the project is completed?  
3 A. (Mandli) No, no. Once we start building that project,  
4 there will be -- first of all, there will be, what do  
5 they call it, a "SWPPP", which is Storm Water Pollution  
6 Prevention Plan. There will be a project manager on  
7 site that will have the SWPPP, which will have to be  
8 approved by the -- what do they call the -- is it DES  
9 in New Hampshire, because it's the DEP in New York?  
10 So, it will have to be approved before we start  
11 construction. And, then, we'll hire our plant manager  
12 shortly after they start construction, because I like  
13 to have a plant manager on-site to see the actual  
14 laying the cable on the ground, doing the overhead  
15 wires, etcetera. So, that's something we do as we  
16 start the construction process.  
17 Q. So, creating the police and emergency plan is something  
18 that you're not going to do until you start  
19 construction?  
20 A. (Mandli) That I won't do for my operations. The  
21 construction folks will do their own. But then my

22 plant manager will set up an emergency response plan  
23 for our operations.

24 A. (Lyons) Can I address that, because this is more of a  
{SEC 2008-04} [Day 1] {03-09-09}

265

[WITNESS PANEL: Decker|Lyons|Mandli]

1 development function?

2 MR. ROTH: Maybe we can ask about this  
3 again tomorrow, so we can let Mr. Mandli go, because I'm  
4 done.

5 WITNESS MANDLI: Thank you.

6 CHAIRMAN GETZ: Well, why don't we just  
7 finish up the thought.

8 BY THE WITNESS:

9 A. (Lyons) I just want to say that we're engaged with the  
10 County and local communities right now about a fire and  
11 emergency response plan. And, we consider that to be  
12 part of the development function. And, it's addressed  
13 in the draft conditions that we have provided to the  
14 County.

15 BY MR. ROTH:

16 Q. Okay. So, if it's part of the development, why isn't  
17 it already done?

18 A. (Decker) Well, we're not the people that are going to  
19 be carrying it out. I mean, the development is to  
20 establish the contacts, the relationships, and what  
21 kind of protocols they're going to see. And, then, we  
22 would hand that responsibility over to the Construction  
23 Team and the Operations Team. So, as the Development  
24 Manager, I build the connection and the resources, and

{SEC 2008-04} [Day 1] {03-09-09}

266

1 Dan says "This is what I'm looking for", and we kind of  
2 set out the guidelines of how a project works. But,  
3 then, as the Construction Team moves in, they then firm  
4 up the guidelines and, you know, the specific issue,  
5 the protocols that, quite honestly, is more applicable  
6 to their trade.

7 Q. So, when you say -- when Mark said "you're working on  
8 it", really, you're just working on kind of the squishy  
9 stuff?

10 A. (Lyons) Well, conceptually. I mean, --

11 Q. Conceptually, yes.

12 A. (Lyons) It's mostly a communications function. To make  
13 sure that we have good communications between  
14 constructors, operators, and the local emergency  
15 officials, yes.

16 MR. ROTH: Okay.

17 CHAIRMAN GETZ: All right. If we need  
18 to follow up on that tomorrow, we can do that. But I know  
19 Mr. Harrington had a couple of questions for Mr. Mandli.  
20 I'm not sure if anyone else on the Committee does.

21 MR. HARRINGTON: Yes.

22 BY MR. HARRINGTON:

23 Q. Just getting back to I think where we more or less  
24 started the day, you had mentioned, I think it was you,  
{SEC 2008-04} [Day 1] {03-09-09}

267

[WITNESS PANEL: Decker|Lyons|Mandli]

1 the "90 percent availability factor", and I just want  
2 to get clear, because there always seems to be a lot of  
3 confusion in these terms as exactly what people mean.  
4 When you're using the term availability, let me see if

- 5 I've got that right. You're saying that, at the 90  
6 percent availability factor, that means that 10 percent  
7 of the time the turbine is not able to run for reasons  
8 associated with the turbine itself?
- 9 A. (Mandli) That is correct.
- 10 Q. Okay. So, where does the substation fit in on that?
- 11 A. (Mandli) The substation would -- I am actually  
12 responsible for everything from the utility's shutoff  
13 back. So, if I have a problem with my substation, then  
14 it's my bailiwick and it's a certain percentage of  
15 downtime.
- 16 Q. Okay. So, that's included in your 10 percent?
- 17 A. (Mandli) Yes. In fact, rough and dirty, there's five  
18 categories, big categories. There's actual turbine  
19 faults would be one of them. There's an amount of time  
20 where we have scheduled repairs. Because every turbine  
21 has a very clearly defined O&M plan. There is repair  
22 time, which would be mainly main component failures, so  
23 you budget for some time there. There's grid-type  
24 shutouts. Like, let's say, you had to do an overhead

{SEC 2008-04} [Day 1] {03-09-09}

268

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 cable repair for something, that would go into that  
2 bucket. And, that's four. What did I forget? I can't  
3 remember the fifth one. But there's five categories.  
4 And, that makes up -- I've got a target for every  
5 project, and a certain percentage of loss of  
6 availability, we call it "E4", which is a fossil plant  
7 type term. And, we track each plant manager in each  
8 project versus their goals for availability.
- 9 Q. Now, getting back to the scheduled outages or PMs, what

10 amount of that 10 percent is accounted for by them?  
11 A. (Mandli) It's very small. It's 0.5 percent of the  
12 total loss of availability. And, it depends on the  
13 platform. GE requires two scheduled visits per year.  
14 Siemens and Vestas, which are two different other  
15 manufacturers, are --  
16 Q. Well, how about the Vestas plan?  
17 A. (Mandli) Yes, this is a one time per year. And, that's  
18 -- there's some concern about us going up there in the  
19 winter. And, there's a lot of snow up there. We won't  
20 go up there with big stuff, if we don't have to, in the  
21 winter. We'll go up there and do inspections, watch,  
22 and things like that. But we'll try to schedule our  
23 PMs, or our Planned Maintenances, during low wind  
24 periods. And, it does two things: It minimizes your  
{SEC 2008-04} [Day 1] {03-09-09}

269

[WITNESS PANEL: Decker|Lyons|Mandli]

1 loss of actual production that you'd have while you're  
2 doing your PM. But it also is easier to PM a turbine  
3 when it's not rockin' and rollin' because you've got 50  
4 mile-per-hour winds.  
5 Q. So, you're including the oil change-outs?  
6 A. (Mandli) Yes.  
7 Q. Inspections, all that, that's all 0.5 percent?  
8 A. (Mandli) 0.5 percent on an annual basis, yes.  
9 Q. So, it's a pretty small number then. The overall  
10 capacity factor, and then, again, let's just make sure  
11 we get the terms clear here. When I refer to "overall  
12 capacity factor", I mean you take the number of hours  
13 there are in a year, and you divide it by, you know,  
14 you've adjusted for the number of hours that you're

15 actually producing, and then what percentage of your  
16 full capacity you're producing. Do you follow all of  
17 that?

18 A. (Mandli) Yes. The thing -- The thing that makes wind a  
19 little more difficult than a normal conventional power  
20 plant is we're dependent on the wind. And, --

21 Q. Right. And, actually -- excuse me.

22 A. (Mandli) Yes.

23 Q. You could be running, for example, at 40 percent  
24 capacity, for -- if you did that for every hour of the

{SEC 2008-04} [Day 1] {03-09-09}

270

[WITNESS PANEL: Decker|Lyons|Mandli]

1 year, you'd be at 40 percent capacity.

2 A. (Mandli) Right. And, on a 3-megawatt turbine, that  
3 would be 1.2 megawatts. What you look at, and it's  
4 interesting, most Midwest to the East part of the  
5 turbine, if you look at your plot of capacity factor,  
6 it looks like a U. You usually have your highest  
7 capacities in the winter cold months, and it drops down  
8 in the summer months. And, in some places, it drops  
9 down real low. Here, in Coos County, from the winds  
10 we're seeing, we see a reduction in the summer. But  
11 it's not like you'd see in Wisconsin, where there's a  
12 30 megawatt project, they will go down to 10 percent  
13 capacity factors in July, August, September, and they  
14 will see 55, 60 in the winter months, on the shoulders.

15 Q. Well, you anticipated my next question. What is the  
16 capacity factor? So, the 35 percent, you're saying, is  
17 that means that -- that includes the availability  
18 issues --

19 A. (Mandli) Yes, it's --

20 Q. -- and the variable part of the wind?

21 A. (Mandli) Exactly. Exactly.

22 (Multiple parties speaking at the same  
23 time.)

24 BY MR. HARRINGTON:

{SEC 2008-04} [Day 1] {03-09-09}

271

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Q. So, I just want to get this straight. That the  
2 35 percent incorporates the fact that your machine is  
3 not available some of the time, whether it's due to  
4 what you count as availability or it's -- you don't  
5 include grid inability, if there's a transmission  
6 outage or something?

7 A. (Mandli) No, I don't. If it's outside of my control?

8 Q. Uh-huh.

9 A. (Mandli) I don't. But the total capacity factor, what  
10 they will do is they will take in a month, let's say  
11 you produce 30,000 megawatt-hours in a month, and you  
12 divide it by the number of turbines and the number of  
13 days and things like that, you'll get an actual  
14 average, you'll get a percentage of what your capacity  
15 factor is, over what your rated capacity is.

16 Q. So, it's the percentage over the maximum you could  
17 possibly generate --

18 A. (Mandli) Right. Right.

19 Q. -- versus what you do?

20 A. (Mandli) Yes. And, that's the interesting thing, when  
21 they do facility studies, a lot of times the facility  
22 studies assume that these plants will operate at pretty  
23 close to the rated capacity. Well, in the north  
24 country, New York, we ran a capacity factor of about 30

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 percent. So, you're going to see, if you have 300  
2 megawatts up there, you're going to see, you know, 90  
3 to 100 megawatts running 24 hours a days/7 days a week,  
4 you don't see the full load.
- 5 Q. But you pay for the worst case scenario?
- 6 A. (Mandli) Yes. Exactly. Exactly.
- 7 Q. Jumping ahead then, I see in the thing you give a range  
8 of operating, from 9 miles an hour to 55 miles per  
9 hour. I didn't see a temperature range. Is there,  
10 because you're talking about an area where it gets  
11 pretty cold, so is there --
- 12 A. (Mandli) Yes. There's limitation -- It's interesting,  
13 because that was the one I forgot. There's a weather  
14 outage part of it that comes out of your availability  
15 also. I believe the operating parameters for this  
16 turbine, and you'll have to correct me, I think it's  
17 minus 30 to positive 30 degrees Celsius. Less? Okay,  
18 it's minus 40 to positive 30 degrees Celsius. Minus 40  
19 Celsius is minus 40 Fahrenheit. And, that's freakin'  
20 cold for a guy from Florida. I've never felt it, but I  
21 did feel minus 26 when I was at Plattsburgh about a  
22 month ago. But, --
- 23 Q. Now, given those temperature ranges, I assume there's  
24 got to be some kind of lube oil heaters or something?

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 A. (Mandli) Yes. There's definitely heaters on the  
2 turbines. And, let's say, during the middle of the  
3 summer we had a grid outage and we were down for a

- 4 couple weeks, and you didn't have power up there, those  
5 things would freeze up solid. But the thing is, as  
6 soon as you --
- 7 Q. Excuse me. Middle of the winter?
- 8 A. (Mandli) Yes.
- 9 Q. You said "summer".
- 10 A. (Mandli) I'm sorry. I haven't slept much in the last  
11 couple of days. Middle of winter, if it froze up, the  
12 turbines won't come back on line until they see the  
13 right temperatures in the control cabinets and the oil,  
14 in the bottom of that sump, because they're not going  
15 to start up the turbine with frozen oil. So, there's  
16 that type of limits. You mentioned "limits", cut-in on  
17 these turbines I think is about four meters per second,  
18 and they shut down, I'd have to -- off the top of my  
19 head, I think it's --
- 20 Q. Twenty-five.
- 21 A. (Mandli) -- 25 meters per second, which is 56. and some  
22 change miles per hour. And, can they run at greater  
23 than 56? Yes, you better believe they can. But they  
24 calculate life on these turbines at a certain range.

{SEC 2008-04} [Day 1] {03-09-09}

274

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 And, the V90s or the GE 1.5 can run at 70, but the  
2 thing is, you're putting loads on that nacelle that  
3 they would rather not put on it long-term. So, what  
4 they'll do in those situations is they will feather  
5 their blades and they'll shut themselves down.
- 6 Q. Okay. Now, is it safe assume these are not black start  
7 units, that you require grid power to --
- 8 A. (Mandli) You have to have grid power, yes.

- 9 Q. Okay.
- 10 A. (Mandli) Asynchronous generators, which require the  
11 grid in order to run.
- 12 Q. So, you need it for the generators, as well as for the  
13 lube oil heaters?
- 14 A. (Mandli) That's right.
- 15 Q. There was some mention before of "ice throw". And, I  
16 guess, there wasn't anything specific, but I assume you  
17 have some type of vibration monitoring equipment on  
18 these?
- 19 A. (Mandli) They do have vibration monitors, what do they  
20 call them, accelerometers, which are vibration  
21 detectors. And, then, they also have severe vibration  
22 detectors, which are -- they're like a cup with a ball  
23 in it, and, if it shakes enough, the ball falls off and  
24 it shuts the turbine down. So, they have backup

{SEC 2008-04} [Day 1] {03-09-09}

275

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 systems, as they do backup systems in the yawing of the  
2 turbines also.
- 3 Q. Okay. And, I notice in your testimony you spoke  
4 briefly about "ice throw".
- 5 A. (Mandli) Uh-huh.
- 6 Q. And, so, I'm not sure if you're the right person, but  
7 you would seem to be the right person to direct this  
8 to. In the agreement with this Town of -- I think it's  
9 the Town of Dummer, there's this agreement there that  
10 says you "won't build any fences that are more than  
11 50 feet away from the facility". So, I assume there's  
12 going to be fences around the turbines or how does that  
13 work?

14 A. (Decker) The facilities that we were speaking of --  
15 there are no wind turbines even proposed in the Town of  
16 Dummer. What is being proposed is a switchyard station  
17 and a substation, --

18 Q. Okay.

19 A. (Decker) -- both of which will be fencing. And, they  
20 just didn't want big, large fences.

21 Q. All right. So, that simplifies some things. I guess  
22 my question would be, given what was stated earlier  
23 today, that there was an exhibit that said that the  
24 manufacturer recommends that people should avoid being

{SEC 2008-04} [Day 1] {03-09-09}

276

[WITNESS PANEL: Decker|Lyons|Mandli]

1 within 1,300 feet of the turbine, unless they can't  
2 avoid it for some reason, how is it you're going to  
3 keep the general public that far away, from I guess one  
4 of the potentials is ice throw, certainly within the --  
5 I think they say the ice throw is, you know, within one  
6 rotor distance is a possible problem?

7 A. (Decker) That, just to touch on a larger subject, the  
8 terms of access has been a concern here. There are  
9 over 100 miles of road network on just the Phillips  
10 Brook parcel alone. The road network, the existing  
11 road network and the proposed road network, everyone  
12 has a clear understanding of what that is, the existing  
13 is the 19 miles of road we're upgrading, that the other  
14 12 miles is the roads that we will build. On the  
15 proposed new roads, we will have a gate on those new  
16 roads. So, essentially, because those roads were not  
17 there, and we are building them, we will put a gate to  
18 those, because we are using those -- that property for

19 ourselves. So, that's how we would restrict access.  
20 Q. Okay. I guess a couple of questions on that. One,  
21 that doesn't prevent anybody on foot, a gate. And,  
22 two, what about snowmobiles?

23 CHAIRMAN GETZ: Well, do you have more  
24 for Mr. Mandli?

{SEC 2008-04} [Day 1] {03-09-09}

277

[WITNESS PANEL: Decker|Lyons|Mandli]

1 MR. HARRINGTON: I don't know. But he  
2 was the one who spoke about "ice throws", so that's why I  
3 was asking. I can wait until tomorrow if someone else is  
4 going to answer the question. So, let me make it that  
5 way, --

6 BY THE WITNESS:

7 A. (Mandli) Yes, the critical -- I'm sorry. The critical  
8 issue here is setback, having setback from known  
9 trails. And, what we'll have to do, on an icing  
10 condition, we'll have to put up signs that warn people  
11 about icing conditions. I'm not sure if we have known  
12 snowmobile trails to our sites or --

13 A. (Decker) There are known snowmobile trails. The one  
14 snowmobile trail that we will have a minor impact on is  
15 the snowmobile trail that goes over Dixville, down into  
16 Colebrook. We have met with the local snowmobile  
17 groups, as well as working with Clint Savage with New  
18 Hampshire Trails Bureau, to establish a rerouting of  
19 some of those, of the trail that goes into Dixville, to  
20 ensure connectivity of that snowmobile trail.

21 BY MR. HARRINGTON:

22 Q. Okay. I think, from what it sounds like, you would be  
23 the one to ask follow-up questions on it tomorrow. I

24 have one further question, that was on the capacity  
{SEC 2008-04} [Day 1] {03-09-09}

278

[WITNESS PANEL: Decker|Lyons|Mandli]

1 factor, getting back to that. I'm assuming, again,  
2 this was based on actual met tower studies that you  
3 came up with the 35 percent, based on known wind?

4 A. (Mandli) That is correct. There's three -- I believe  
5 three towers? Three towers. So, we've collected data  
6 on those three towers. And, our actual capacity factor  
7 estimates are based on true wind numbers.

8 Q. And, what would that be estimated for for July and  
9 August again?

10 A. (Mandli) I'd have to go back and look. I haven't seen  
11 the actual profile for every month. I think --

12 Q. Is it in the submittals? I don't remember that.

13 A. (Decker) I think that was in a data request.

14 MR. IACOPI NO: I think they were, in  
15 response to a data request. That may have been marked.

16 CHAIRMAN GETZ: Well, these witnesses  
17 will be back on tomorrow. So, they can follow up on that  
18 and have that information available tomorrow morning.

19 MR. HARRINGTON: That's all I had.

20 CHAIRMAN GETZ: Anything else from the  
21 Subcommittee?

22 MR. IACOPI NO: I have two quick  
23 questions -- I'm sorry, I have two quick questions for  
24 Mr. Mandli.

{SEC 2008-04} [Day 1] {03-09-09}

279

[WITNESS PANEL: Decker|Lyons|Mandli]

1 BY MR. IACOPI NO:

2 Q. And, the first one is, does the installation of this  
3 project in Coos County require any construction back at  
4 your Call Center in Plattsburgh, other than upgrading  
5 software?

6 A. (Mandli) It will be a software upgrade.

7 Q. And, that's it?

8 A. (Mandli) That's right. We built the -- We use a  
9 software overlay made by a company called "OSI soft".  
10 And, it's a PI system that overlays just about  
11 anybody's SCADA system made, and allow us to monitor.  
12 We have one operator per 8-hour shift -- 12-hour shift  
13 that watches every one of our windparks on a big  
14 display wall. And, it's all through OSI. And, then,  
15 they have direct connect to everyone on the SCADA  
16 systems for control.

17 MR. IACOPI NO: Thank you.

18 CHAIRMAN GETZ: Mr. Roth, did you have  
19 something?

20 MR. ROTH: Just one question, clarifying  
21 something that was said.

22 BY MR. ROTH:

23 Q. I think Mr. Decker once referred to something called  
24 "real wind", and Mr. Mandli just referred to something

{SEC 2008-04} [Day 1] {03-09-09}

280

[WITNESS PANEL: Decker|Lyons|Mandli]

1 called "true wind". Are either of those things the  
2 small "a" actual wind or are they models?

3 A. (Mandli) Well, the information off the anemometers on  
4 the met towers are what it is, that is actual wind  
5 speed. And, there are some wind map models that people  
6 use to do prospecting for wind projects. They're made

7 by, oh, gosh, WindLogics is one company. There's an  
8 AWS Truewind, that actually have gone through and they  
9 have mapped every square mile, maybe not every square  
10 mile, but big portions of the United States to see what  
11 kind of wind resources there are in various parts of  
12 the country.

13 Q. So, when you referred to "true wind", you were  
14 referring to not the actual anemometer data, but wind  
15 maps and stuff from the service?

16 A. (Mandli) Did I say "true wind"?

17 Q. I think so.

18 A. (Mandli) That might have been just a -- When I talk  
19 about wind, I'm actually measuring wind speeds.

20 Q. Okay.

21 A. (Mandli) I don't put a lot of faith in the maps that  
22 are sold by third parties.

23 MR. ROTH: Okay. Thank you.

24 WITNESS MANDLI: But I'm not a

{SEC 2008-04} [Day 1] {03-09-09}

281

[WITNESS PANEL: Decker|Lyons|Mandli]

1 developer, I'm sorry.

2 CHAIRMAN GETZ: Okay. So, I think  
3 that's -- did you have redirect for, Mr. Mandli.

4 MR. PATCH: One. I do have one question  
5 for him.

6 REDIRECT EXAMINATION

7 BY MR. PATCH:

8 Q. We have premarked conditions that the Department of  
9 Environmental Services has recommended.

10 MR. IACOPI NO: 39, 40, and 41.

11 BY MR. PATCH:

12 Q. That's right. And, within these conditions, I guess I  
13 would ask you -- I'm not sure I see the -- I'm looking  
14 for the -- oh, here it is. Okay. This is in  
15 Exhibit 39. And, these are conditions pertaining to  
16 water quality. I'm going to show you what's marked as  
17 "E-10". And, I would just ask if you could read that  
18 into the record.

19 A. (Mandli) "Item E-10: The Applicant shall prepare and  
20 submit a Spill Prevention, Control and Countermeasure  
21 Plan (SPCC) for the activity in accordance with federal  
22 regulations (40 CFR Part 112)." You're just trying to  
23 see if guys from Wisconsin can read, aren't you? "The  
24 Applicant shall submit the plan to DES Watershed

{SEC 2008-04} [Day 1] {03-09-09}

282

[WITNESS PANEL: Decker|Lyons|Mandli]

1 Bureau" -- "Watershed Management Bureau", I just proved  
2 I couldn't, "for review and approval at least 90 days  
3 prior to installation of the first turbine. The SPCC  
4 Plan shall include, but not be limited to operating  
5 procedures to prevent oil spills, countermeasures  
6 installed to prevent oil from entering surface waters,  
7 countermeasures to contain clean-up and mitigate the  
8 effects of an oil spill and facility inspections. The  
9 Applicant shall then implement the approved plan."

10 MR. PATCH: Thank you.

11 CHAIRMAN GETZ: Mr. Seiler.

12 MR. SEILER: I just have one question  
13 on, I guess, redirect. Well, no, actually --

14 CHAIRMAN GETZ: We're going to give some  
15 leeway here. But let's not make -- as we proceed for the  
16 rest of these hearings, this is because we're trying to

17 accommodate Mr. Mandli's leaving. Typically, you get your  
18 one chance on cross. Then, it's the Committee, then it's  
19 redirect. We'll give you an opportunity to pursue your  
20 question here. But, in the future, if you want to --  
21 going to try to ask recross, then it has to be limited to  
22 redirect, you're going to have to establish a basis for  
23 it. It's just not going to be a free-flowing forum of  
24 whoever happens to have a question at any particular

{SEC 2008-04} [Day 1] {03-09-09}

283

[WITNESS PANEL: Decker|Lyons|Mandli]

1 moment.

2 So, with that in mind, if you would ask  
3 your question.

4 RE-CROSS-EXAMINATION

5 BY MR. SEILER:

6 Q. Mr. Mandli, you just said that you have little  
7 confidence in historical and modeled wind data?

8 A. (Mandli) Don't listen to me on that. I'm just an  
9 operator. I just operate --

10 Q. Well, if you have a choice between historical, modeled  
11 or actual wind data, which would you prefer?

12 A. (Mandli) If I was going to build a project, it would be  
13 on actual wind data.

14 Q. You put your first anemometer up there on  
15 February 26th, if I remember correctly?

16 A. (Mandli) Uh-huh.

17 Q. And, is that the basis of your design of the Project?

18 A. (Mandli) No, no. The design of the Project is based on  
19 correlations between those met towers and some other  
20 historical data. And, that's the way most wind  
21 developers work. Most wind developers will take six

22 months, a year, two years worth of on-site data, and  
23 then try to correlate it to other towers.

24 Q. So, how many months of wind data did you accumulate at  
{SEC 2008-04} [Day 1] {03-09-09}

284

[WITNESS PANEL: Decker|Lyons|Mandi i]

1 the site that became an input into the design of the  
2 Project itself?

3 A. (Decker) I think it was most likely -- I believe it was  
4 over a year, in terms of the final siting and design.  
5 Vestas, in terms of -- they won't start negotiating  
6 with you until you have one year minimum of on-site  
7 meteorological data before they will have run their own  
8 dynamic analysis for the siting of the project. So,  
9 that's, you know, a threshold that we crossed to have  
10 the -- to get where we are.

11 Q. So, if I understand you correctly, then it was that  
12 anemometer you put up on February 26th of 2008 that  
13 became the basis for the information that you provided  
14 to Vestas?

15 A. (Decker) I mean, in addition to other met towers that  
16 we have in the meantime. They do look at what else you  
17 have done. They also conducted an on-site field visit.  
18 We also shared with them some other historical data  
19 that was conducted just north of the Project, at the  
20 Balsams Ski Area. And, some kind of old, old data that  
21 I believe Plymouth State University compiled on  
22 Dixville Peak.

23 Q. So, then, it's fair to say then that it's a combination  
24 of historical, modeled, and actual wind data?

{SEC 2008-04} [Day 1] {03-09-09}

285

[WITNESS PANEL: Decker|Lyons|Mandi i]  
Page 175

- 1 A. (Decker) That is correct. We also do look at  
2 WindLogic, to kind of verify our map, as well as kind  
3 of help out, you know, with the siting, and to ensure  
4 that, you know, we're maximizing the wind potential of  
5 the Project.
- 6 Q. Of those three sources of wind data, historical,  
7 modeled, and actual, what percentage is actual data  
8 that you collected? That was -- became the input into  
9 the windfarm or software, as well as what you gave to  
10 Vestas?
- 11 A. (Decker) I don't know what the percentage is. It's  
12 really driven on ensuring that you have a project site  
13 that's suitable (a) for the manufacturer, that they  
14 will give you -- they will stand behind your siting, as  
15 well as that you're getting the maximum efficiency --  
16 or, I'm sorry, maximum generation for this Project, so  
17 that you don't have instances where, if one rotor is  
18 facing into the wind, the other one is off, because it  
19 was sited right behind it.
- 20 Q. Okay. And, in a data response, you indicated that the  
21 anemometer that you put in on February 26th actually  
22 had "153 days in which it was down", in other words, it  
23 wasn't collecting data. So, that means you pretty much  
24 had to rely on modeled or historical data for those

{SEC 2008-04} [Day 1] {03-09-09}

286

[WITNESS PANEL: Decker|Lyons|Mandli]

- 1 inputs?
- 2 A. (Decker) But I believe we had -- it went down after we  
3 completed the full year at Owlhead. And, then,  
4 Fishbrook was up and running. And, I believe the  
5 correlations were very similar, because it's just south

6 of where we were, so that we had a continuous study on  
7 the site.

8 Q. Well, if you put the tower up on February 26, 2008,  
9 when did you lock into the design?

10 A. (Decker) No, the Owlhead met tower I put up, I believe  
11 it was February or late, late January in 2007. And,  
12 then, in 2008, late 2008, there was an ice occurrence.  
13 And, then, you know, that Owlhead met tower is  
14 celebrating its -- you know, it's over two years on the  
15 Project site. Because, when I first started, when I  
16 first got to Lancaster, from northern New York, one of  
17 my first things that we did put up was the  
18 meteorological tower on Owlhead Mountain.

19 MR. SEILER: I'm finished.

20 CHAIRMAN GETZ: Okay. All right. Then,  
21 we will recess for the evening. We will resume at 10:00  
22 tomorrow morning. Mr. Roth will be questioning the panel  
23 of Mr. Lyons and Mr. Decker. And, then, we will go to  
24 questions from the Subcommittee, and then redirect, and

{SEC 2008-04} [Day 1] {03-09-09}

287

[WITNESS PANEL: Decker|Lyons|Mandli]  
1 onto Vissering and Luhman. And, let's -- tomorrow I would  
2 like a little more follow-up, I still haven't heard what  
3 -- the background on the Lloyd-Evans issue and what the  
4 requirements are. But let's deal with that tomorrow. So,  
5 we'll recess for the evening. Thank you, everyone.

6 (Whereupon the hearing was adjourned at  
7 6:23 p.m., and the hearing to resume on  
8 March 10, 2009, to commence at 10:00  
9 a.m.)

10

GRP-DAY1. txt

11

12

13

14

15

16

17

18

19

20

21

22

23

24

{SEC 2008-04} [Day 1] {03-09-09}