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UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
CAPE WIND ENERGY PROJECT

Public Hearing
March 10, 2008
Mattacheese Middle School
400 Higgins-Crowell Road
West Yarmouth, Massachusetts

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PROCEEDINGS -- 6:01 p.m.

MR. MOORE: Good evening, everyone.

My name is Chris Moore, and I'm from CDR Associates. And I and my colleague Jennifer Graham, who is down here, have been asked to be the facilitators for this meeting. We are actually from Boulder, Colorado, so it's wonderful to be here on the Cape.

So I want to thank all of you for coming to the meeting tonight to talk about the Cape Wind project. This is a pretty important evening, I think, for everyone, as it has been for a number of years, because I know that many of you have come to these meetings to voice your input and raise questions and to provide some directions. So what I'd like to do is to talk a little bit about our meeting process for this evening, and then ultimately I'll turn it over to the MMS to talk about what their work has been.

My role as the facilitator tonight is to help you have an efficient, fair, and productive meeting; to stay on track, because

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girls' locker room.

If you need to evacuate the building because there's an emergency or fire alarm or whatever, you can get out this door, this door, and this door, and there are outside doors over there and in the back.

I need to also find out who in the audience has EMT training. Is there anyone who has EMT training? If you have, raise your hand. So we've got at least one back there. That's an important thing for us to know. We hope we don't need it, for a variety of reasons.

So let me say just a little bit, then, about the hearing process. The goal of this meeting tonight is an input meeting, that's not a question-and-answer session. So if you have questions that you want answered, you need to write them down on some of the forms, the comment forms. You can put them in the box here, and there are several that are around the room. So if you want a response, that's the place to get it. Tonight is

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I know that a lot of you want to talk. I've heard that there are 16 public officials who want to make statements and a large number of citizens and representatives and public-interest groups want to, too. So the goal is to have a meeting that will be productive and that you all get a chance to talk.

Let me say a little bit about logistics and creature comforts, because that's important. We'll be meeting tonight for approximately six hours. There will be breaks every two hours. But since there are fairly large aisles, if people need to take restroom breaks, I would encourage you to go ahead and maybe take them whenever you want to, because there are limited facilities.

The restrooms for both men and women. If you go out this door, they are down there at the end of the hall. And also, if you go to the back of essentially the gymnasium, on the left-hand side is the boys' locker room and on the right-hand side the

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primarily a chance to have some input.

We want to have everyone have an opportunity to be heard. However, if we're over 200 speakers, toward the end of the evening I'll give you a warning that we may not get to everyone. So I'm hoping we won't have that situation, but you need to know that it's possible.

The input that you give tonight will be used to assess the adequacy of the Draft Environmental Impact Report, making potential revisions before the issuance of the final EIS.

So let me ask you briefly, when you've gone to a public meeting and it's been an effective public meeting, what's made it work for you? What is it?

AUDIENCE MEMBER: Brevity.

MR. MOORE: Brevity, so it's speaking, talking, staying to the point, and being brief.

What else? Civility. That's a very important point, a big issue in the

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1 United States today: Can we have civil
2 discussions even though we disagree?
3 Civility.

4 What else? Good information, so
5 that people are providing it, because it's
6 primarily you speaking forward to MMS.

7 In addition, there's some things
8 that I think are important, and when you came
9 in, there were some meeting ground rules. I
10 guess what I'd like to do is get the meeting
11 guidelines put up here. So if there are folks
12 in the back up there who are operating the
13 sound and light for us: I encourage you to
14 turn off your cell phones -- I just did -- or
15 put it on the vibrate mode.

16 Maintain civil and respectful
17 behavior, which you said. Listen attentively
18 to what is being said. Allow your fellow
19 citizens to present their views in an
20 uninterrupted manner.

21 Refrain from cheering, applauding,
22 whistling, or making derogatory remarks. This
23 is probably the toughest one you'll have to
24

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1 deal with tonight, maybe the toughest one I
2 have to deal with, because people I know feel
3 strongly about this.

4 The speakers will be determined in
5 the order that you signed up. However, public
6 elected officials will be on the front end.

7 And be brief and concise, which you already
8 mentioned, and stay within the allotted
9 three-minute time frame of the speakers.

10 Is that the last one?

11 So let me mention again that when
12 we checked for the number of people who have
13 signed up and we get up to about
14 250-something, I'll let you know, so that
15 those who have higher numbers, if we're really
16 having trouble staying to the time limits,
17 we'll have to do some kind of adjustment for
18 you to get your input.

19 So with that, I think, let me just
20 mention -- several other things about giving
21 your comments. I'll call you up, and what I'd
22 like to do is to have three people on this
23 microphone and three people on this
24

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1 microphone. So what I'll do is, I'll call the
2 1's, the 3's, and 5's and so forth on this
3 side, and we'll go back and forth. We'll have
4 three people standing so that you don't have
5 to wait too long for an opportunity to make
6 your statement.

7 We have Alan down here, who is our
8 court reporter. It will be very helpful when
9 you begin your statement if you state your
10 name clearly, so that he can get it down. And
11 then you have a number. If you will write
12 your name on your card with your number and
13 leave it up on his table, and then go out this
14 way and go out that way, these different
15 aisles. He'll be able to accurately record
16 who actually attended and who actually spoke.

17 If you decide to read a prepared
18 statement which is a repetitive prepared
19 statement, what I'm going to encourage you to
20 do is note that you would like that statement
21 entered, and then we'd like to hear in your
22 own words what input you would like to have.
23 We will note that you read that statement, but
24

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1 we would ideally like to have additional
2 statements from you as an individual.

3 So I think that's all for our
4 logistics. Ready to go? Yes? Okay. Let's
5 go.

6 With that, I'd like to turn it over
7 to Bob LaBelle, from Minerals Management
8 Service. And he will explain both who he is
9 and who the colleagues are at the front table.

10 MR. LaBELLE: Thank you all for
11 coming tonight. We're excited to be here, and
12 we want to do the best job we can for this
13 Environmental Impact Statement. A key thing
14 of any kind of environmental review is public
15 input. It's really great to see that all of
16 you care enough to get up and come out here
17 and give you input, and we really appreciate
18 it.

19 I'm going to go quickly in the name
20 of brevity, the first principle. Who is MMS?
21 We're a small Federal agency that was created
22 in 1983. We've been managing offshore oil and
23 gas since then, which brings in about 30
24

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1 percent of our domestic production. It's
 2 about 4,000 platforms in the Gulf of Mexico,
 3 some in Alaska, and some off of Southern
 4 California. We also handle sand and gravel
 5 mining. And in 2005 the Energy Policy Act
 6 gave us authority for alternative energy
 7 programs offshore. Federal waters off
 8 Massachusetts start three miles and beyond.
 9 So we're responsible now for wind energy, wave
 10 energy -- you see the list up here -- ocean
 11 current energy, solar energy, hydrogen
 12 production.

13 That's my name up there, and I'd
 14 like to introduce two key people that work on
 15 this day and night. The first is Maureen
 16 Borholdt, our program manager for the office
 17 of alternative energy programs; and Dr. Rodney
 18 Cluck, who is the Cape Wind project manager.
 19 And of course we want to thank Dr. Chris
 20 Moore, our able facilitator here today.

21 Also around the room, I should
 22 mention there are a number of MMS staff and
 23 contractors. You can tell them by their name
 24

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1 tags. Please feel free to ask them whatever
 2 information you may need.

3 So what is the purpose of the EIS
 4 process? As the slides point out, the process
 5 provides for a full discussion of the issues,
 6 ensures that the public is involved, provides
 7 information to the Federal decisionmakers, and
 8 identifies reasonable alternatives and
 9 possible ways to mitigate potential impacts
 10 from the projects.

11 We're looking for your comments on
 12 this document to improve it. The issues of
 13 concern are identification of mitigation
 14 measures and monitoring procedures or
 15 additional environmental information we may
 16 have missed or mischaracterized inadvertently.
 17 So we will take all of your comments and
 18 respond to them in the final EIS.

19 We recently just extended the
 20 comment period to April 21st because we
 21 realized the document is very extensive and it
 22 takes a lot of time to go through properly and
 23 give us your input. So we started, I think,
 24

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1 in January, and now the closing date for
 2 comments is April 21. So in addition to the
 3 comments you may make today, or, if you don't
 4 get a chance to make tonight you can send them
 5 in on the Web, according to the website up
 6 here, or you can mail them to that address.
 7 As I say, all comments received on the draft
 8 EIS will be taken into consideration and
 9 grouped and responded to in the final
 10 document.

11 So again, thank you, and I'm going
 12 to turn it over to Rodney Cluck, who will talk
 13 about the project.

14 MR. CLUCK: Thank you, Bob. I
 15 appreciate that. Welcome. I'm Rodney Cluck.
 16 I'm the Cape Wind project manager, as a lot of
 17 you are aware. Believe it or not, this is
 18 actually one of my favorite parts of the
 19 process. It allows the public to comment
 20 openly on the Draft Environmental Impact
 21 Statement. It offers really valuable insight
 22 to us in moving forward with this process.

23 Let me begin by saying that, to aid
 24

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1 in the development of the Draft Environmental
 2 Impact Statement, MMS hired a contractor, TRC.
 3 We selected this contractor to manage, TRC
 4 Environmental Corporation. The Draft
 5 Environmental Impact Statement is an
 6 independent evaluation of the proposed project
 7 by Cape Wind Associates.

8 The proposed project that MMS is
 9 evaluating is approximately six miles from
 10 Cape Cod, nine miles from Martha's Vineyard,
 11 and 13 miles in Nantucket Sound. The project
 12 is 468 megawatts and consists of 138 turbines,
 13 a 100-by-200-foot electric service platform.
 14 At its highest point it is 440 feet above the
 15 water. It covers 25 square miles and has
 16 16-to-20-foot-diameter turbines.

17 The energy would go ashore in
 18 Yarmouth with the transmission cables into the
 19 New England ISO. This is just a map showing
 20 you where that location is, through Lewis Bay,
 21 going into Yarmouth.

22 As part of the EIS process, we
 23 looked at several alternatives. In order to
 24

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2 narrow the scope of the alternatives, we
 3 developed screening criteria. The criteria
 4 consist of what you see here: wave height,
 5 water depth, substrate, transmission line
 6 distance, the minimum wind speed, if the
 7 technology is available currently. We also
 8 conducted a limited economic analysis, to
 9 compare the potential alternatives to the
 10 proposed action.

11 So this is what we came up with.
 12 The green here is the proposed action. The
 13 red is a smaller alternative to the proposed
 14 action, which is 65 wind turbine generators.
 15 We also assessed phased development, where 65
 16 wind turbine generators would go in, and then
 17 we would monitor effects for a period of time,
 18 and that would be required before we would
 19 approve the second phase, which would be
 20 another 65.

21 We assessed a condensed array that
 22 would essentially have a smaller footprint.
 23 And we also looked at alternative locations in
 24 Monomoy Shoals, which is here in blue, and

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2 south of Tuckernuck Island, which is here in
 3 orange. And then anytime you do an
 4 Environmental Impact Statement, you always
 5 have a no-action alternative, and that means
 6 the government would take no action
 7 whatsoever.

8 In order to assess the impacts to
 9 resources, birds or fish or any type of
 10 resources that we do in an Environmental
 11 Impact Statement, we must first determine what
 12 factors produce those impacts. We look at
 13 routine and nonroutine activities throughout
 14 the construction, through the operations, and
 15 the decommissioning of the project. So during
 16 this process we considered all possible
 17 factors. I just want to give you a few
 18 examples, to let you know kind of how we did
 19 this.

20 For example, for construction, a
 21 routine impact-producing factor would be the
 22 noise and vibration from the monopole
 23 installations. A nonroutine factor would be
 24 an oil spill from a vessel. Both could have

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2 potential impacts.

3 During operations, a routine impact
 4 would be foundation scour, a normal
 5 occurrence. A nonroutine would be if the
 6 monopole collapsed.

7 During decommissions, a routine
 8 example would be seabed site clearance during
 9 decommissions. The applicant would be
 10 required to remove everything from a seabed.
 11 Nonroutine would be, while we were doing that,
 12 if two vessels collided, that would certainly
 13 be nonroutine. Again, all of these are looked
 14 at specifically in terms of looking at the
 15 impacts.

16 We developed impact-level
 17 definitions. We used these definitions and
 18 assigned them to various resource levels based
 19 on the best available information and data
 20 that we have. So the impacts to a particular
 21 resource could be negligible, which would mean
 22 that there would be no measurable impact.
 23 They could be minor, which would mean the
 24 resource would recover completely. They could

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2 be moderate; that means that there would be
 3 complete recovery but only with mitigation.
 4 And then major means that the resource would
 5 not recover completely at all, even with
 6 mitigation.

7 Most of the impacts that we found
 8 to the Cape Wind projects were either
 9 negligible or minor. But we did find some
 10 moderate impacts. With these moderate
 11 impacts, that means that there has to be
 12 consideration given to mitigation.

13 Just real briefly, I'll go through
 14 these moderate impacts with you: avifauna,
 15 which they had for impacts for the
 16 construction and operations. The fisheries,
 17 which is the construction phase of
 18 development. Marine mammals impacts during
 19 construction and operations. Visual impacts
 20 during operations; and I have to mention also
 21 we found major impacts for visual if you were
 22 in very close proximity to these structures.

23 Competing uses during the Figawi
 24 Race. That means that they have to change the

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1 race directions for event. The vessel
2 traffic: There could be moderate effects for
3 sailboats inside the wind park, especially
4 during times in the fall.

5 So we've developed environmental
6 mitigation thus far in the Draft Environmental
7 Impact Statement. We will continue to work
8 with cooperating agencies in the State of
9 Massachusetts to continue to develop
10 mitigation further to move us from the draft
11 to the final.

12 In order to get from the draft to
13 the final, we need your comments, not only our
14 cooperating agencies, but the public's
15 comments as well. So we strongly encourage
16 you to comment during this open comment
17 period. As Bob stated earlier, we've extended
18 the comment period until April 21st. The
19 public hearings, right here, right now. The
20 Final Environmental Impact Statement is
21 projected in the fall of 2008, followed by a
22 record of decision, which usually that happens
23 30 days after the Final Environmental Impact
24

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1 (Laughter.)

2 MR. MOORE: Thirty seconds. And
3 then finally when you get to the end, which is
4 just like the stop light, it asks you to stop
5 and please complete your statement. So I
6 would ask that you stay within the time frame.

7 We have a good friend up there with
8 a stopwatch. So you can watch your second
9 hand if you want to, but he's up there with
10 his stopwatch.

11 So we are going to begin with our
12 public officials speaking. What I would like
13 to do is to invite them up. We can begin -- I
14 guess let's get two of them up, so we can have
15 one person here and then one person here. The
16 first one -- as soon as the person on this
17 mike is finished, then the next person can
18 come up.

19 The first Senator is Senator Robert
20 O'Leary, for the Cape and Islands. And then
21 Charles Bishop, for State Representative Jeff
22 Perry, if you would come over to this mike.
23 And as soon as Senator O'Leary is finished, if
24

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1 Statement.

2 So I certainly do look forward to
3 listening to your comments tonight and
4 learning from your points of view. Once
5 again, thank you for coming.

6 MR. MOORE: Thank you, Rodney. So
7 now is the time where we begin speaking. Let
8 me just briefly explain again that the public
9 officials who are elected public officials
10 have up to five minutes to speak. Citizens
11 have three minutes to speak. And the reason
12 is because the elected officials often
13 represent large numbers of people, of
14 citizens. If the elected officials can be
15 less than five minutes, it would be
16 appreciated, because it gives more citizens an
17 opportunity to speak.

18 Let me explain our timing
19 mechanism. We have some dots up here. When
20 you start, it will be green. Please begin.
21 And then at 30 seconds, you will see the
22 yellow light. Thirty seconds 'is longer here
23 than it is in Colorado.
24

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1 John Horrigan would come to this mike and Tom
2 Lynch would come to this mike, so as soon as
3 they're finished. So, thank you very much.

4 SENATOR O'LEARY: Thank you very
5 much for having me, and I want to thank the
6 Department of Interior for being here today.
7 And I want to thank the people of the Cape and
8 Islands for taking time out of their busy day
9 and showing up at a public hearing like this.
10 I think it's a very good form of civic
11 engagement.

12 I spent a good part of my afternoon
13 up in Boston today negotiating sort of the
14 final pieces of what is the Massachusetts
15 Oceans Management Act, which is a
16 comprehensive piece of legislation that sets
17 up a system that develops a comprehensive
18 oceans management plan for Massachusetts
19 waters and requires all the regulatory
20 agencies which issue permits to have those
21 permits consistent with the plan. It puts the
22 public purpose ahead of the private purpose.
23 And I think that's in sharp contrast to what I
24

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1 see unfolding around this project in Federal
2 waters, and I think that's really a
3 fundamental flaw in the whole situation as we
4 see it go forward.

5 Over the last seven years my
6 constituents have been arguing over this
7 issue. Proponents have been saying we need to
8 do this to save the planet. The critics have
9 been saying if you do this, we're going to
10 destroy our community. And in the end there's
11 been a lot of acrimony and a lot of division.

12 You're going to hear a lot of that
13 here tonight. And I think much of that could
14 have been avoided and should have been avoided
15 if the Federal Government had done what it
16 should have done, which is develop a Federal
17 Ocean Management Act that sets up a
18 comprehensive planning process and requires
19 the private interests to conform to a public
20 agenda. Thank you very much.

21 MR. MOORE: Charles Bishop, for
22 State Representative Jeff Perry.

23 MR. BISHOP: Thank you very much.

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1 I have been asked by Representative Perry to
2 read this brief letter, because he was unable
3 to be here tonight. "Unfortunately, I am
4 unable to attend the public hearing on March
5 10, 2008 regarding the Draft Environmental
6 Impact Statement. Please allow this letter to
7 serve as my public comments regarding this
8 matter. I request the following comments to
9 be read into the record at an appropriate time
10 during the hearing.

11 "Politicians often skirt
12 controversial issues to avoid conflict, and I
13 believe that no matter what your stance is on
14 an issue, you must have consistency. It is my
15 belief that the wind farm proposal remains
16 flawed. I have major concerns that the
17 commercial fishing industry in our region will
18 be negatively impacted by the installation of
19 the proposed wind farm. I have met with
20 fishermen who earn the majority of their
21 income in the area of the proposed site, and
22 they have expressed to me their serious
23 concerns to the impacts this project would

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1 have on their livelihood.

2 "In addition, testing this massive
3 project in one of New England's most visited
4 tourist destinations in my mind is not
5 prudent. I believe we should test a project
6 of this scale in another region and not one
7 reliant on a seasonal tourism base, such as we
8 have here on the Cape. It is projected that a
9 decline in tourism would lead to the loss of
10 up to 2,500 jobs, according to the Beacon Hill
11 Institute. This is simply unacceptable.

12 "Thank you for listening to my
13 concerns. Regards, Jeffrey Davis Perry, State
14 Representative, Fifth Barnstable District."

15 MR. MOORE: Our next speaker is
16 John Horrigan, for State Representative
17 Demetrius Atsalis. Not you, Tom? This is Tom
18 Lynch, delegate.

19 MR. LYNCH: My name is Tom Lynch, a
20 resident of Centerville, and I am the elected
21 representative to the Assembly of Delegates
22 from the Town of Barnstable.

23 I do not understand how the DEIS

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1 can be properly reviewed without national
2 regulations and offshore renewable energy
3 being in place. If they were in place, I do
4 not believe the industrialization of Nantucket
5 Sound would be allowed.

6 As a Coast Guard licensed boat
7 captain, I agree with the Hy-Line and
8 Nantucket Steamship Authority when they say
9 the wind towers will present a navigational
10 hazard. I believe the Coast Guard terms and
11 conditions for safe navigation should be in
12 place and a part of the DEIS report. I do not
13 understand how we can allow the risk of a
14 40,000-gallon oil-storage platform to be built
15 a few miles off one of the most pristine
16 beaches in the world. In this regard I concur
17 with the Town of Barnstable's position of the
18 potential environmental damage of an oil spill
19 in Nantucket Sound.

20 I am submitting a letter from the
21 Town of Barnstable regarding this risk. In
22 part, the letter says: "In the Cape Wind
23 matter, just such a risk of catastrophic

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1 environmental change will be created if this
 2 project is approved, and the risk has been
 3 utterly ignored to date. In particular,
 4 single-hulled oil barges bound for Nantucket
 5 carrying as much as 1 million gallons of
 6 petroleum products and as few as 300,000
 7 gallons, more than three to ten times the
 8 amounts of the infamous Bouchard barge spill
 9 in Buzzards Bay, will pass within four tenths
 10 of a mile of the Cape Wind towers. In the
 11 event of a mechanical or medical emergency or
 12 clearly foreseeable negligence of the
 13 operator, that distance can be covered in as
 14 few as three to four minutes.

15 "If that collision occurs and a
 16 release of petroleum in such quantity in the
 17 waters of Nantucket Sound, we can all agree
 18 that the damages to the environment will be
 19 catastrophic. As a designated operating
 20 agency, the Town of Barnstable intends to
 21 explore the many inadequacies and failings of
 22 the DEIS on this risk assessment. None of the
 23 Cape and Islands towns are prepared to address
 24

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1 such a catastrophe, nor is it likely that any
 2 contingency plan could control such a
 3 petroleum release in open ocean conditions.
 4 What is clear and what Barnstable is prepared
 5 to show is that the environmental damage will
 6 indeed be catastrophic and irreparable,
 7 subjects that have been intentionally ignored
 8 in Cape Wind's regulatory filings. Thank you
 9 for your consideration." I'll submit this
 10 letter.
 11

12 MR. MOORE: Thank you very much.
 13 Michael O'Keefe, who is the district attorney
 14 for the Cape and Islands.

15 MR. O'KEEFE: Good evening, and
 16 thank you for the opportunity to speak with
 17 you this evening. I, like many of the
 18 citizens who I'm sure are here this evening,
 19 was here in this same auditorium, it seems
 20 like three or four years ago now, addressing
 21 this same issue. I'll just reiterate a couple
 22 of observations that I made back then.

23 As someone who has spent most of
 24 their professional life involved in one way or

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1 another in trying to plan for various
 2 emergency situations, I can't help but think,
 3 despite whatever studies there may have been
 4 generated by the proponents of this project to
 5 the contrary, that putting as many of these
 6 items as is being suggested at the height of
 7 440 feet, in waters that are so close to the
 8 islands of Nantucket and Martha's Vineyard, as
 9 well as the coast of Massachusetts, is asking
 10 that they be run into by either a plane or a
 11 boat.
 12

13 And it seems to me that that has
 14 not been given its due weight in how
 15 mitigation has been viewed with respect to
 16 this project. And I would urge this Federal
 17 agency to take that into consideration. I
 18 noted with great interest that you had the
 19 Figawi race mentioned up there.

20 In deep water, if you will, where
 21 those vessels that have probably the most
 22 sophisticated navigational equipment in the
 23 world would be more likely to be in the path,
 24 if you will, of these objects, were they to be

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1 built, again, in deep water, would probably
 2 have very little trouble with them because of
 3 the sophistication of the equipment they
 4 carry.
 5

6 I daresay that our boaters here
 7 aren't that sophisticated. You know, they're
 8 out there by the thousands in the summertime,
 9 and it's going to cause a problem -- not to
 10 mention the difficulty -- and I think you'll
 11 hear more about that from people with some
 12 expertise from the airport commission -- with
 13 respect to how this will impact air
 14 navigation. So I just again urge that that be
 15 taken into consideration.

16 The one other thing that I will
 17 mention is just from the esthetic point of
 18 view. I, like everyone else who lives on Cape
 19 Cod, have friends from all over the United
 20 States. And occasionally one of them who has
 21 never seen an ocean will come to Barnstable.
 22 And the first thing they want to do is bring
 23 themselves and their children down to look at
 24 the ocean. And anyone who would suggest that

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1 looking out at these things isn't a defiling
2 of that coastline doesn't have the same sense
3 of aesthetics that I do.

4 So thank you for listening to me
5 tonight, and I urge that you (inaudible.)

6 MR. MOORE: I'd like to call John
7 Ormond, of the Assembly of Delegates, and Ron
8 Bergstrom, of the Assembly of Delegates. If
9 you'd come up, we'd appreciate it. Are the
10 two of you here?

11 MR. BERGSTROM: I'm not John
12 Ormond. I'm Ron Bergstrom.

13 MR. MOORE: Good.

14 MR. BERGSTROM: You know, there's a
15 saying that charity begins at home, and we
16 people here on the Cape believe that
17 protecting the environment begins at home,
18 also. You know, even as the polar bear might
19 depend on his environment for his very
20 survival, the people of the Cape and Islands
21 depend on our environment here on the Cape for
22 our economic survival, for the survival of our
23 tourist industry, for the survival of our

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1 fishing industry, for our survival as a
2 destination resort, and for the second
3 homeowners that basically are the fundamental
4 underpinnings of a lot of our economy here.

5 And I will tell you that there's no
6 doubt in the minds of the many fishermen who I
7 talk to -- and I'm a commercial fishermen
8 myself. I live in Chatham. There's no doubt
9 that this project will have a negative impact
10 on their livelihood, and there's no doubt --
11 and you'll probably hear from the Chamber of
12 Commerce here tonight -- there's no doubt in
13 their minds that this project would also have
14 a negative impact on the economic viability of
15 the Cape.

16 And so, you know, a lot of the
17 criticism that you'll hear of the
18 environmental impact statement is going to be
19 portrayed as just a sense of parochialism.
20 But we here on the Cape have a long history in
21 protecting our environment. And in 1960 we
22 put aside the National Seashore, all the way
23 up from Chatham up to Provincetown, which

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1 comprised a great deal of six towns. We've
2 gone a long way protecting our wastewater.
3 Chatham alone is going to spend \$250 million
4 on protecting the groundwater and making sure
5 that our ponds and our estuaries are not
6 polluted.

7 So far from being people of limited
8 vision, I think the Cape and Islands, above
9 the rest of Massachusetts, is really
10 environmentally concerned. And when you hear
11 from the people, as you've heard from Senator
12 O'Leary and Attorney General O'Keefe and so on
13 -- when they speak about the detrimental
14 effects that this is going to have on their
15 environment, I want you to put that in the
16 context of people who are very close to the
17 environment and depend on the environment for
18 their livelihood and for their sense of
19 well-being and their sense of place.

20 And so I see this as being a
21 detriment to the Cape. And the limited
22 benefit it's going to provide -- and it is, in
23 my view, a very limited benefit -- is going to

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1 be more than compensated for by the
2 detrimental effects it's going to have on the
3 livelihood and the lifestyles of the people
4 who live here. I don't have a big house on
5 the water, and I'm not a millionaire, but I
6 love Nantucket Sound. I've spent a lot of
7 time out there, as have a lot of people in
8 this room. It has a special sense of place to
9 us, and we feel this project is not
10 appropriate for that spot. So thank you very
11 much.

12 MR. MOORE: Is Ron Bergstrom here?
13 Ron is not here, so Representative Matthew
14 Patrick.

15 I'm sorry. That was Ron. So John
16 is not here, and Ron is not here. John Ohman
17 is not here. You're here.

18 So let's go to George Chuckie
19 Green.

20 REPRESENTATIVE PATRICK: You have
21 State Representative Matt Patrick here to
22 speak. Thank you all for being here tonight.
23 It is a pleasure to see you, and it's an honor

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1 to speak here in favor of this project.

2 I am State Representative Matthew
3 Patrick of the Third Barnstable District. I'm
4 a longtime member of the legislature's
5 telecommunications, utilities, and energy
6 committee. I have volunteered many years to
7 environmental causes on Cape Cod.

8 Before joining the legislature, I
9 was the executive director of Self-Reliance,
10 the nonprofit energy advocacy and research
11 organization, for 15 years. I led a
12 successful effort to save the Quashnet River
13 Valley from imminent development and was
14 co-chair of the Campaign to Pass the Cape Cod
15 Commission Act.

16 My support for Cape Wind was always
17 based on it passing the environmental impact
18 review, and to date it has done so. Tonight I
19 am going to offer some new information that
20 you should consider. Based on information I
21 have received as a member of the energy
22 committee, it is my opinion that it is likely
23 that the Canal Power Plant will be shut off
24

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1 most of the year if the Cape Wind project is
2 built and a peak-load shedding program is
3 implemented. For a little more than a year,
4 the Canal Power Plant has been kept running
5 only because of a transmission restriction in
6 southeastern Massachusetts. If not for this
7 transmission restriction, the Canal Power
8 Plant would be shut off most of the year
9 because it could not compete due to the high
10 price of oil.

11 Southeastern Massachusetts
12 ratepayers are now paying \$9 million a month,
13 \$9 million a month extra to keep the Canal
14 Power Plant running at about 17 percent of its
15 capacity, and we don't even need the
16 electricity. The National Electric
17 Reliability Council, or the NERC, requirements
18 call for operating the system to protect for
19 the loss of two major transmission lines
20 within a 30-minute period. Keeping the Canal
21 Power Plant running satisfies this
22 requirement. NSTAR, which is our local
23 utility, is starting a Department of Public
24

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1 Utilities proceeding to install system
2 upgrades that will improve, but not fully
3 relieve, the problem.

4 I will ask the ISO, Independent
5 Service Operator of New England, and the
6 Department of Public Utilities to waive the
7 requirement to run the Canal Power Plant in
8 off-peak hours and instead implement a
9 load-shedding program after the short-term
10 upgrade is completed. The NERC standards do
11 allow for load-shedding in the event there is
12 a two-line loss.

13 The added generation of Cape Wind
14 coupled with a peak-load shedding program
15 would greatly assist in relieving the need to
16 keep the Canal Power Plant running except for
17 extreme peak-load requirements, which usually
18 occur in the summer months here. However,
19 wind monitoring in Nantucket Sound during the
20 peak-hour usage shows that there have been
21 strong winds that would compliment the
22 high-demand load profile of the Cape and the
23 Islands.
24

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1 Thank you very much for your
2 consideration.

3 MR. MOORE: Thank you very much.
4 George Chuckie Green, selectman?

5 MR. GREEN: Good evening. I am
6 here tonight to voice the opinions first of
7 all of my town and my community, who, being
8 the only town on Cape Cod who has taken a
9 referendum and voted 2 to 1 to oppose this
10 project -- our reasons being, first of all,
11 the economic impacts on our communities.

12 Taking away the Horseshoe will be a
13 vital resource that we depend on as a
14 tourism-based community to fund our summers,
15 to make us a viable community for our summer
16 homes, which the south side of our town
17 basically takes up 51 percent of our tax base.
18 So when you start to affect that, that is
19 going to affect our whole community.

20 The other reason that I am up here
21 tonight is that I am representing the Mashpee
22 Wampanoag tribe. I am the historic
23 preservation officer of the tribe and I'm also
24

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1 the assistant environmental administrator of
2 the tribe, Mashpee Wampanoag. Wampanoag means
3 People of the First Light. Historical,
4 cultural, religious values that we place on
5 the sound are immense. Our celestial
6 ceremonies are held. The blocking of those
7 views, of that sunrise, would be an issue to
8 the tribe.

9 We also claim that there are
10 burials out there. Our history, our oral
11 history tells us that Horseshoe Shoals 10,000
12 years ago was above ground. In your report
13 you say, to mitigate that, if you find human
14 remains, something will be done for
15 mitigation. Tell me how in 60 feet of water,
16 drilling a hole, you're going to notice human
17 remains? I would be real glad to hear that
18 answer, because I don't think it's possible.

19 Besides that, we are fishermen. We
20 are fishermen in our community that depend on
21 the charter boats, depend on people coming
22 here to fish the Horseshoe. The Horseshoe is
23 a place the stripers and the blues go after
24

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1 the water gets a little colder because they
2 are fast fish. They like to run in open
3 waters. They don't like to hunt amongst
4 obstacles. So that resource will be taken
5 away from us. We can't see that being an
6 acceptable thing to the tribe or to the Town.

7 Then we look at our environment. I
8 am also the environmental coordinator for the
9 tribe. Environmentally the horseshoe crab,
10 for one -- marine fisheries has determined
11 that it's a substantial habitat for the
12 horseshoe crab. The horseshoe crab is being
13 threatened up and down our coast for bait, for
14 medicinal purposes also. If we eliminate a
15 generation by this construction, what will be
16 the impacts?

17 Then we have the summer flounder,
18 the fluke. Marine Fisheries, by restricting
19 our fishermen's ability to go out and earn a
20 living, we've increased those stocks. Now we
21 go, we stir up the water, make it so turbulent
22 that the juvenile fish die off and we lose a
23 generation of those fish.
24

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1 How do we replace that? How do we
2 put that back? With electricity? I can't see
3 that happening.

4 I can't see that this is a good
5 place. It's a great idea. The Town of
6 Mashpee is very active in researching wind
7 power. We're very active in looking at these
8 projects. It's a great idea. It's just the
9 wrong place to do it.

10 MR. MOORE: Thank you. Janet
11 Joakim, who is Barnstable Council president.
12 Is Janet here? Or Ahmed Mustafa, selectman
13 from Falmouth?

14 MR. MUSTAFA: Good evening. My
15 name is Ahmed Mustafa. I'm a selectman for
16 the Town of Falmouth. And as far as it goes,
17 I've heard comment about put it someplace
18 else. I've also heard comment that maybe this
19 could happen and maybe the tourists won't come
20 and they would lose their vision of looking at
21 the beautiful ocean. If they really are that
22 interested in it, they'll stand -- instead of
23 looking this way, they'll look off to the side
24

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1 and they'll see the full ocean.

2 All of the things that I've heard
3 that are negative against this project are
4 because people are normally afraid, and they
5 fear the unknown. As far as it goes, does
6 anybody worry about a meteor falling down
7 tonight and striking us in this building? I
8 don't think anybody's worried about it,
9 because I don't see anybody leaving.

10 What we have to do is do the right
11 thing for everyone. Have you ever been caught
12 in a blackout where you've lost electricity
13 and all of a sudden you're saying, "What do I
14 do now? There's no radio. There's no TV.
15 There's no lights. How am I going to find my
16 way around?" You're in complete despair
17 because you've lost electricity.

18 The price of oil is going up.
19 Everything is climbing. This is a chance to
20 gain something from the wind power, make use
21 of our natural elements, rather than
22 artificial aspects.

23 What I say to you, as a board, vote
24

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1 on this thing with your hearts, your mind, and
2 with the insight of looking forward. Thank
3 you.

4 MR. MOORE: Suzanne McAuliffe,
5 chairman of the Yarmouth selectmen, and Bill
6 Marasco, Yarmouth selectman.

7 SELECTMAN McAULIFFE: Good evening,
8 and welcome to the Town of Yarmouth. We're
9 very privileged to have you here with us this
10 evening.

11 This is where the rubber meets the
12 road in terms of the wind farm. This is where
13 the cable comes ashore. We have many
14 concerns. I'm not going to repeat what other
15 people have said in terms of the tourism and
16 some of the overall general impacts.

17 I'm going to give you some
18 specifics for Yarmouth. I sat through hours
19 of Cape Cod Commission hearings on the cable
20 alone, talking about the environment, in terms
21 of what's under the (inaudible), eelgrass, our
22 shellfish beds, and also where the cable comes
23 from the ocean cable to the land cable.

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1 It was a very difficult process
2 dealing with Cape Wind. I would think that
3 the questions that the Cape Cod Commission
4 asked of Cape Wind in terms of the exact
5 environmental impacts would need to be
6 addressed. The information was not provided,
7 and that's why the Cape Cod Commission ended
8 up giving a denial. It was not because they
9 denied the project; it's because the
10 information was not provided.

11 The Town of Yarmouth has a road
12 opening permit, which we will have to do
13 because the cable will come in and come up New
14 Hampshire Avenue. We are going to be asking
15 environmental questions that concern eelgrass,
16 concern velocity zones where hurricanes are
17 going to come in, concerning transition faults
18 where cables are going to be joined from land
19 cables to sea cables and they're going into
20 hurricane velocity zones.

21 They're all the devil's in the
22 details. These are questions that have not
23 been answered. The environmental issues have

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1 not been addressed accurately and
2 appropriately. We do not have even one iota
3 of information on the impact of the cable.
4 And that doesn't even address the wind towers.
5 I'm talking about just specifically the cable.

6 I would hope, as Mr. Cluck said,
7 that all cooperating agencies would be
8 considered, and I hope that some of the
9 information that the Cape Cod Commission tried
10 to gather and some of the questions that they
11 want answered would be answered. There was a
12 dearth of information. It just wasn't
13 specific to the questions that were asked.

14 In terms of the other environmental
15 impacts: two specific to Yarmouth. One is
16 the oil that is in the transformers. Each
17 wind tower has about, I guess it's about 290
18 gallons. And then there's, I guess, about --
19 it's a total of about 80,000 gallons of what
20 they call mineral oil. It's an electric oil.
21 Ironically, we just had a spill of 40 gallons
22 of that oil last Thursday in the Town of
23 Yarmouth. It was a full hazmat cleanup down

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1 on Route 28. And it's not just the mineral
2 oil that's sitting on your shelf in your
3 house; it is an electric-grade mineral oil.
4 We cannot get the information on
5 the details of what's in that, and that's one
6 of the things the Town would be very
7 interested in, because if there's a spill from
8 a transformer or the towers, ground zero is
9 five hours from Yarmouth beaches. So we need
10 to have those kinds of questions answered.

11 And then the other specific to the
12 Town of Yarmouth: We are in constant battle
13 with the Barnstable Airport over noise and
14 pollution. We have a regular airline service,
15 almost like a bus service, between Barnstable
16 and Nantucket Island. The flights that go off
17 every three, four minutes, they're all noisy
18 402s, and unfortunately the residents of the
19 Town of Yarmouth are disturbed from probably
20 about before 5:00 in the morning until after
21 11:00 at night on a lot of days.

22 If the wind towers are put into
23 Nantucket Sound, that will further compress

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1 the approaches that our 402s will have to
2 make, and they will have to be compressed
3 further over Yarmouth. I can tell you right
4 now, the situation is intolerable for our
5 residents. And to have further airport and
6 airline noise would be a significant hardship.

8 So in general, due diligence is
9 required. We need more information. We need
10 more specific details. We need more
11 cooperation from Cape Wind about the specific
12 things that are going to happen, and not just
13 quantities of information, but the quality and
14 accurate information.

15 Thank you, and thank you for coming
16 down to the Cape.

17 MR. MOORE: Bill Marasco.

18 MR. MARASCO: Thank you very much.

19 I want to thank our chairperson, Susan
20 McAuliffe. I also want to echo her words on
21 behalf of the Town of Yarmouth. I have some
22 other comments in a broader sense. I believe
23 this report minimizes the environmental,
24 economic, and conservation issues at hand. It

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1 is only through a loophole in the Federal and
2 State laws that this site is even considered
3 for industrialization.

5 Nantucket Sound ought to be a
6 conservation trust, much like Cape Cod Bay,
7 the National Seashore, or our national parks.
8 This project does not stand economically on
9 the energy it produces. It is only through a
10 windfall in tax credits that this project is
11 economically feasible.

12 If in fact our tax dollars, the
13 citizens' tax dollars, are going to subsidize
14 this project, then it needs to be in the best
15 place for its citizens, not for its developer
16 or corporate sponsors.

17 It is clear that we need alternate
18 clean energies, but that need does not trump
19 the need for preservation of Nantucket Sound
20 or our national parks.

21 We do not, however, have to choose
22 between the two. It is clear from the
23 comments made this evening so far that
24 Nantucket Sound is not the best place for this

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1 project. And as technologies develop,
2 alternate sites on land or offshore, or other
3 types of renewable energies that are more
4 feasible and more environmentally friendly
5 will come forward. If these other sites or
6 other technologies would come forward, it
7 would be embraced by the local community,
8 represented here this evening. If a better
9 site for this project were found, rather than
10 defending this site, we would all be working
11 together, rather than apart.

13 I believe the current site of this
14 project would forever change the character of
15 Cape Cod. And just as any industrial or power
16 plant would cause irreversible harm to our
17 community, so would this industrial power
18 plant. Just because it doesn't burn oil
19 doesn't mean that it isn't an industrial power
20 plant, with massive platforms, high-energy
21 cables going through our streets and beaches,
22 and massive electric turbines off our shore.
23 There are better alternatives to this site,
24 and I would urge the MMS to get involved in

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1 cooperative efforts so we can all work
2 together to find a better site that we can all
3 support. Thank you very much.

5 COUNCILWOMAN JOAKIM: My name is
6 Janet Joakim. I'm the president of the
7 Barnstable Town Council. Bill Marasco and
8 myself and several others actually came to
9 Washington to speak to the Secretary of
10 Minerals Management late in your process,
11 earlier, probably back in December. We were
12 there because we all feel as if we're being
13 left out of this process.

14 Yarmouth, Barnstable, and Mashpee
15 are really the abutters of the project, as
16 well as the Islands. We are, and I think
17 Mashpee -- and we discussed this, Chuckie and
18 I discussed this quite a bit -- we would be
19 the first responders to any disaster that
20 would happen out here. And yet nobody has
21 involved us in any of the processes, State,
22 Federal, or anything, in discussions on how
23 this would all be handled. We haven't got the
24 equipment, we haven't got the training, and we

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1 haven't got the money to buy the equipment and
2 to train our people for the type of disasters
3 that could happen if these things were built.

4 In addition to that, the Town of
5 Barnstable and Mashpee and Yarmouth, we've all
6 been accused of not wanting this project
7 because it would affect our views. I

8 represent a precinct of people that live three
9 or four miles from the ocean. It's not about
10 our views. Again, we are the abutters. We
11 are the ones who would see our ports change.

12 We are the ones that would see any of the
13 damage that might --

14 This is an experiment. It seems
15 like I've been here several times talking to
16 different groups, State and Federal, about
17 this issue. What it comes down to is, this is
18 an experiment. We don't know what this is
19 going to do to our environment. We don't know
20 what this is going to do to an ocean sanctuary
21 that is a place where we're fishing. And it
22 is a recreational area. But we don't know how
23 this is going to affect the navigation, and we
24

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1 don't know what types of disasters we may get
2 there.

3 The responsible way to do something
4 like this is to start small. The Town of
5 Barnstable has developed zoning to allow for
6 wind turbines individually on people's houses
7 and for businesses, and we've got a few of
8 them that have gone up already. If we start
9 small, and if it works, maybe we'll use them
10 in our municipal operations. We've been
11 looking at that. We've had test piles out.
12 Then we'll build from there.

13 But to have a private developer, a
14 corporate developer, making corporate profits
15 off our shores that would affect all of us is
16 not the way to start. The towns -- actually,
17 most of the towns on the Cape are involved in
18 a municipal electric company. It's done
19 through the county. Barnstable -- Barnstable
20 County and another agency have gotten together
21 now, and we've formed a municipal electric
22 company. We would like to do a project, a
23 small project somewhere offshore, a couple of
24

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1 areas have been identified -- not this area,
2 but areas that wouldn't create the kind of
3 problems that this one would, that would in
4 fact benefit the people who about the project
5 and who would be affected by the project.

6 So I have met with the Minerals
7 Management agency, I've met with people in the
8 office, and I will submit some written
9 testimony. But I again ask you to consider
10 this an experiment. Please, do not allow this
11 in our back yard. Thank you.

12 MR. MOORE: Let me ask John Morgan.

13 MR. MORGAN: Thank you. My name is
14 John Morgan, and I work for Representative
15 Demetrius Atsalis. He has asked me to read
16 his testimony for this hearing.

17 "The winds of change have certainly
18 been at work over these past five years, as we
19 have witnessed the course of events
20 surrounding the Cape Wind project and its
21 plans to industrialize 25 acres of Nantucket
22 Sound. During this time dozens of public
23 hearings, informational meetings, and debates
24

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1 have taken place. The fact that so much
2 activity and attention has been given to this
3 project is a good thing.

4 "However, the ever-growing
5 fictional themes promoting the benefits of
6 this project continue to grow, while
7 misleading the public. This is not a good
8 thing. Proponents of the wind farm
9 continually confuse the facts in an attempt to
10 redirect the law. This misdirection is not
11 limited to all those promoting this
12 ill-conceived project, but the lion's share of
13 my concern for such action is clearly focused
14 on Cape Wind, its backers, so-called
15 environmental groups, and the Conservation Law
16 Foundation.

17 "With so much money at stake, it
18 should surprise no one that many people,
19 campaigns, and developers want a piece of this
20 billion-dollar pie. With the pro-wind-farm
21 banner proclaiming universal peace, clean air,
22 no more sick babies, and energy independence,
23 many backers seem blinded by the promises
24

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1 being made by Cape Wind.
 2
 3 "For nearly five years my position
 4 on the Cape Wind project and its location has
 5 remained constant. I wish to be on the record
 6 once again as to that position. There is
 7 absolutely a need to increase our production
 8 of green renewable energy, inclusive of wind
 9 energy. In order to establish a uniform
 10 process for the siting of offshore wind
 11 projects, a national standardized policy is
 12 needed and long overdue.

13 "Along with this new siting
 14 procedure, new and emerging renewable energy
 15 technologies need to be investigated. Today
 16 it was announced that a new deepwater
 17 technology is available and could possibly be
 18 used in ocean areas that would mitigate the
 19 need to place these energy producers in
 20 shallow locations that draw concerns from
 21 people living near the coastlines.

22 "However, the Cape Wind project is
 23 not the way to develop sound public policy.
 24 We need to be clear in this matter: This

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1 I'd like to have several of these folks come
 2 up: James Crocker, Jr.; Ann, I hope I
 3 pronounce your last name right, Canedy;
 4 Gregory Milne, J. Gregory Milne; and Fred
 5 Chirigotis, Richard Barry. And that's the
 6 list from the Barnstable Town Council. If
 7 you'd mention your name first so that our
 8 court reporter can take it down. Thank you.

9 MR. CROCKER: Thank you very much.
 10 It's great to come in last again. James H.
 11 Crocker, Jr., Jim Crocker, Barnstable. I
 12 serve not only on the town council, but I'm
 13 also involved in emergency services for COMM
 14 Fire and Water.

15 I'm also by trade a developer, so
 16 oftentimes it's difficult to come and speak
 17 against developments, to be frank. But
 18 developments are chosen for their strengths
 19 and their weaknesses. My brother from
 20 Yarmouth spoke about loopholes and the Federal
 21 aspect that brought this forward. He's not
 22 really too far off the reservation about that.

23 When you think about it, what he's
 24

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1 project is not about the war in Iraq, it is
 2 not about global warming, and this project is
 3 not about the failed promises of low-cost
 4 energy. This project is about incomplete
 5 public policy, money, and opportunity. Thank
 6 you.

7 "I urge the Minerals Management
 8 Services and all remaining public agencies to
 9 set the highest standard for all future wind
 10 projects and reject this proposal, its scope
 11 and size, until an enforceable uniform process
 12 is established. To do otherwise and allow
 13 this project to proceed would be the
 14 equivalent of delivering the perfect storm --
 15 public policy planning for our region and the
 16 nation.

17 "In closing, I would like to point
 18 out to the distinguished panel that when
 19 something lacks common sense and physical
 20 sense, that it makes absolutely no sense.
 21 Thank you."

22 MR. MOORE: We now have a number of
 23 members from the Barnstable Town Council. So
 24

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1 really done is identify an issue that came to
 2 pass a few years ago when we saw the line
 3 change on this project. The line changed
 4 because the State took a piece of land,
 5 identified a deeper route into the ocean than
 6 they expected. So we didn't go to the science
 7 and say these windmills would be eliminated
 8 for the science. We went to the zoning map
 9 for the edge of the ownership of the Federal
 10 waters and agreed. And that, my friends, is
 11 about chasing the permit.

12 What we're looking at when we get
 13 here is an obligation to all of us who call
 14 Cape Cod our home. Emergency services have to
 15 be paramount. It was only a few ago when we
 16 brought an LP tanker back to the port of
 17 Hyannis because it had flipped and caused a
 18 problem on its travel. Hyannis is one of the
 19 most densely populated of the ports, but
 20 Hyannis was still designated because of its
 21 ability to respond.

22 When you don't prepare properly for
 23 responses, you take measures of emergency.
 24

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1 And I don't believe that this particular
2 process has had its vetting about permitting
3 and about emergency responses. When you look
4 at our needs, linked-together buoys from the
5 Coast Guard, or from any other mechanism to
6 contain this spill, we clearly all know there
7 aren't nearly enough buoys or what -- I should
8 say the dredging buoy -- that we regard as an
9 acceptable response time. That's really
10 unacceptable through the process.

11 When you look at some of the
12 actions that have happened with some of these
13 flat water barges in the rivers and other
14 areas, you see that the river abutments are
15 always protected. We have no protection for
16 any of these so-called structural gear that's
17 going to be placed out there, and yet we have
18 single-hull oil tankers traveling back and
19 forth to the islands all the time. That's
20 simply unacceptable.

21 We have ferries made out of
22 aluminum. Their hulls are made out of
23 aluminum so they can ferry at a speed that's

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1 effective and at a cost that's efficient. To
2 not have any protection, that's simply
3 unacceptable.

4 I think there's ways for us to all
5 work together. I think there's ways that we
6 can come together. There are a need for
7 land-based issues. Some towns can benefit
8 from that. But this is far from over. This
9 is far from a completed study. I'd ask that
10 you send this back for more review. Thank
11 you.

12 MR. MOORE: Thank you very much.

13 MS. CANEDY: My name is Ann Canedy.

14 I'm also Barnstable Town Council -- spelled
15 C-a-n-e-d-y.

16 I have submitted for the record a
17 written statement previously, so you may have
18 heard some of my concerns. Just as our
19 president, Janet Joakim, narrated a minute
20 ago, I am deeply concerned as a member of the
21 local government and as a constituent and as a
22 stakeholder that I feel that our local
23 government has not had a chair at the table

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1 thus far in this process.

2 One of my greatest concerns about
3 this project is the lack of zoning and
4 cooperative site plan for a project of this
5 magnitude. As a town councilor, I sponsored
6 the land-based wind turbine ordinance that was
7 alluded to earlier. I have a copy of that
8 ordinance, which I will be glad to submit to
9 you.

10 This land-based wind turbine
11 ordinance strictly regulates the site and
12 maintenance, safety, aesthetics, etc. of
13 land-based turbines. One rationale for this
14 ordinance was to control the sites, the
15 numbers, and placements of turbines, while not
16 discouraging their usage in appropriate
17 locations. Also, it was to ensure that they
18 would be not densely placed, which is what we
19 are afraid of in this case.

20 There has been no zoning for the
21 waters off Cape Cod. I am conscious of the
22 fact that the Cape Wind project is only one of
23 several projects that are being considered for

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1 this area. Moreover, if the Cape Wind project
2 is approved without adequate zoning, other
3 sites in other bodies of water off the New
4 England coast and elsewhere will be
5 likewise -- the coastal areas of those -- in
6 those places will be likewise impacted.

7 There may be appropriate places
8 where turbines could be sited without
9 negatively impacting our historic landscape --
10 this is historic landscape -- our tourism,
11 which is our lifeblood; navigation channels,
12 both the air and the sea; migrating mammals
13 and fish. These places need to be carefully,
14 carefully identified, limited and zoned with
15 the full cooperation and in consideration of
16 local government and of the residents and the
17 stakeholders.

18 Additionally, as you are no doubt
19 aware, Massachusetts is a public-doctrine
20 state. From Colonial times to the present,
21 the waters off of Massachusetts are not owned
22 by any one individual or one corporation; they
23 belong to the people of the Commonwealth.

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1 And I think, by extension, one
2 could argue that a project just outside the
3 Massachusetts jurisdiction may be a figurative
4 taking of a public resource for private use.
5 Thank you.

6 MR. MILNE: Thank you. My name is
7 Greg Milne, and I'm also an elected town
8 councilor from the city of Barnstable.

9 First of all, it's remarkable to
10 see such a great turnout here, and I want to
11 thank all the citizens here, no matter what
12 your point of view is. Thank you for being
13 here and making your voices known.

14 I come to this issue from a more
15 fundamental place, in that, to me, what you
16 are potentially about to approve, because you
17 apparently have the power, is eminent domain
18 in reverse. You know, we in the work of the
19 people's government, if we are about to take
20 somebody's property privately by eminent
21 domain, that's a very, very high threshold
22 that one has to meet, and thank goodness
23 that's the way it is. That's America.

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1 But in this case you have public
2 property that you're about to hand over to a
3 private corporation, without the public having
4 a say. You have a Federal election coming up
5 in November. You folks are from the Federal
6 Government. Maybe you should bring this back
7 to the voters of Cape Cod. We have one county
8 here, Barnstable County, which is also known
9 as the Cape Cod regional government. Let's
10 have the voice of the people heard, because
11 I'm confident the people will make the right
12 decision. They won't just give away public
13 property for nothing.

14 No. 2, you are going to give
15 subsidies, in order for this project to take
16 place -- we all know subsidies are part of the
17 equation. So you're going to give our money
18 to a corporate millionaire, billionaire, on
19 top of the public property you're going to
20 give them. So now they need --

21 MR. MOORE: Could you hold your
22 applause, please.

23 MR. MILNE: Okay? And then thirdly,

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1 you are going to give our electricity that we
2 have to receive -- we obviously know
3 electricity now is not a luxury, it's a
4 necessity. That electricity that we're
5 ultimately going to pay for, nobody has made
6 it clear as to what it is actually going to
7 cost when this project is created.

8 Certainly I am all for renewable
9 energy. I doubt there's anybody in this room
10 that's heating their home right now with
11 corn -- and I am. I am heating the space that
12 I sleep in right at this moment with corn,
13 grown in an organic Massachusetts farm. So
14 it's bio-renewable energy, and it's organic,
15 natural energy and renewable. So I certainly
16 don't think that people can say I'm not for
17 renewable energy.

18 Lastly, I would just like to ask
19 that you listen to what Senator O'Leary's
20 said. And as I just made clear, this is
21 reverse eminent domain. The electric rates --
22 it is totally unclear what we're actually
23 going to pay. So let's say, for instance, as

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1 one said earlier, this is an experiment. If
2 we end up with higher electric rates, we end
3 up with our government money sent to the state
4 and Federal level, given to this developer of
5 this corporation, plus public property. And
6 then we end up with paying more for
7 electricity on top of that.

8 How can you possibly contemplate
9 approving a corporate project on public
10 property under those circumstances? I don't
11 know how, but I hope you will reconsider the
12 big picture. You're missing the forest for
13 the trees. Thank you very much.

14 MR. MOORE: Thank you. Our next
15 speaker?

16 MR. CHIRIGOTIS: Thank you. My
17 name is Frederick Chirigotis. I am a
18 Barnstable town councilor. I am the
19 vice-president of the Barnstable Town Council.
20 I am the councilor who represents the precinct
21 encompassing Craigville Beach, Covell's Beach,
22 Long Beach, primarily the area due north of
23 Horseshoe Shoal.

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1 We are the close line where any
2 disaster will blow. We all know, everyone in
3 this room, if you've ever been in a boat,
4 knows that Cape Cod lives with prevailing
5 southwesterlies. The wind comes from the
6 southwest. We know that. When there is a
7 problem, it is going to wash up primarily on
8 all of us, but Craigville Beach, that's where
9 it's going to be.

10 Craigville Beach is an
11 internationally famous resort area. It's a
12 destination. It is pristine waters. For
13 those of us who have been out in Horseshoe
14 Shoal, and I hope that you get a chance to go
15 there, you can stand on the deck of a boat at
16 high tide and see the bottom. Outstanding.
17 Anything that could happen to that area, to
18 ruin that area would be a disaster.

19 Now, we are, everyone in this room
20 is green. Everyone in this room would say to
21 you, "We are in favor of renewable energy."
22 It would be a sham to suggest that any person
23 here does not believe in wind power or all
24

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1 that anyway. Well, then, why are we building
2 a wind farm? No. 1. So we all know we need
3 the electricity. That's unfair.

4 We've heard of disaster plans and
5 our concern for disaster plans, and we've
6 heard someone else say that's not really a
7 good argument because when you leave here you
8 can't expect a meteor is going to strike you.
9 But that's unfair, and we're offended by that,
10 because these are real issues. We are the
11 ones who are going to deal with a project, a
12 disaster project. We are the ones who are
13 going to respond to that. And as previous
14 speakers have told you, no single community
15 and no community in concert, none of us
16 together, can respond in an adequate fashion
17 to a disaster.

18 Now, when I asked for a financial
19 plan, when I suggested that that hasn't
20 existed, hasn't been given to us, what we're
21 told -- and if I'm wrong, please let us
22 know -- that the cost is going to be double or
23 triple the current cost of electricity. Is
24

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1 sorts of alternative energy programs.

2 I heard a speaker earlier say, and
3 I have to agree, this is the wrong place for
4 it. And why? Well, No. 1, let's look at the
5 financial plan. Or have we seen any financial
6 plan? Is this project economically viable?
7 Can it sustain itself? Whenever a developer
8 suggests a project, one of the things that
9 they look at is economic viability. And this
10 project, at least from what I've seen -- and
11 if there's something we haven't, we need to be
12 presented with that -- does not pay for
13 itself. The public needs to know.

14 And when I said earlier -- we are a
15 bright and articulate people. Everyone here
16 can hear and see and read and understand what
17 we're told. We are offended when we are not
18 given the facts upon which we can make our
19 decision. We are told this is good for us.
20 An earlier speaker said that we don't need the
21 Cape Cod -- we don't need the Canal energy
22 project because it only provides 17 percent of
23 the energy, electricity, and we don't need
24

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1 it? I hear someone say "wrong." Well, if it
2 is, present that to us. And, you know, that
3 is with State and Federal subsidies or tax
4 incentives.

5 We need to know what the cost is.
6 We need to see what the financial plan is.
7 Barnstable, I will tell you, has nationally
8 recognized financial planners and budget
9 directors. We can look at the numbers and see
10 if they make sense and work. We're willing to
11 work with anybody to make this work. This
12 project here doesn't work.

13 Now, the disaster plan went on
14 Chicken Little, and we're not talking about
15 something falling from the sky. This is real.
16 These are places where all of us make our
17 living, through fishing, through recreation,
18 through tourism. This is where we live. This
19 is where we raise our children. And we ask
20 that we really look at all of the issues, the
21 important issues here, and make a
22 determination before anything is approved to
23 make sure we have all of the facts necessary
24

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1 to make an appropriate decision -- and I
2 suggest we don't have those yet. Thank you.

3 MR. BARRY: Good evening. My name
4 is Richard Barry. I'm the town councilor from
5 Precinct 7 in Barnstable, which is Cotuit.

6 Earlier we've had an opportunity to
7 hear from Mr. Green, the selectman in the Town
8 of Mashpee, heading westerly. That would be
9 clear representation from local officials, at
10 least from Mashpee, that they don't -- they're
11 not in support of this project.

12 Next in line comes myself. I would
13 be representing the area from Mashpee to
14 Osterville. The previous speaker, Mr.
15 Crocker, represents the section of Barnstable
16 known as Osterville. The previous before me,
17 Mr. Chirigotis, represents the precincts from
18 Centerville that abut the shoreline.

19 I've had an opportunity from the
20 beginning of this -- I should note that I hold
21 a, I'm sorry, a commercial rod and reel
22 fishing license. Going out to the Horseshoe,
23 which is about 5 1/2 miles out from the Cotuit

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1 cut, it is one of the most beautiful and
2 pristine places around here, abutted with the
3 back side right along the National Seashore.

4 It's also very foggy out there at
5 times, very foggy. GPS doesn't work, and you
6 need radar out there. There's a lot of boats
7 that transport people back and forth, all
8 hours of the day, to Martha's Vineyard and
9 Nantucket, primarily recreational as well as
10 commercial.

11 I took the opportunity to actually
12 read through as much of your report or your
13 study as I could get through. It's quite a
14 cumbersome document. But in addressing the
15 economics, on Page 17 of Appendix F, when
16 you're discussing the various sites that were
17 considered, your report clearly states that
18 none of the sites appear to be profitable at
19 today's electric prices.

20 Now, here on Cape Cod we have some
21 of the highest utility rates in the country.
22 Your report indicates that ISO New England
23 charges \$59 per kilowatt-hour, and the

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1 projected wholesale cost that Cape Wind would
2 be selling their electricity at is 122
3 kilowatthours - I'm sorry, megawatthours.
4 That's more than 100 percent increase from
5 where it is right now. The last time I
6 checked, we were hovering about \$106 per
7 barrel of oil. And at the prices that we're
8 at today, based on the releases of your
9 document on January 11th, 2008, it's not a
10 viable project.

11 So the question is, in this
12 2000-page document, that I have for you folks
13 and also for Cape Wind is, if we can figure
14 out what the wholesale, or the projected
15 wholesale costs are, how much is it going to
16 cost me, the local consumer?

17 Out of a 2,000-page document, it
18 would seem, if we're going to make some
19 drastic changes to one of the most pristine
20 places around, and there's got to be some
21 sacrifice, there has to clearly be some
22 benefit. Well, what's the benefit, other
23 than, hey, there's a really cool erector set

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1 experiment out in Nantucket Sound? So why
2 doesn't your report address that? A
3 2,000-page report.

4 Now, another issue that kind of I
5 see as something where the proponent of this
6 project is higher and further above the
7 average, ordinary citizen: Every summer --
8 and it's almost a dirty word -- the piping
9 plover shows up, and it forces millions upon
10 millions of people from the National Seashore.
11 On Barnstable, on the north side there's Sandy
12 Neck, which is often closed, five miles of
13 beach closed down. We can't go there, can't
14 take our families out there. You know, and
15 that is mandated by who? Our Federal
16 Government.

17 Well, I took a look at what they
18 had to say about the piping plover -- what the
19 Federal government had to say about the piping
20 plover and roseate tern, both, I believe,
21 endangered species. Appendix C concludes that
22 it has been predicted that there would be some
23 level of collision mortality associated with

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1 the project and would not substantially
2 increase the risk of extinction of the
3 species. That's in your report. I didn't
4 make it up.

5 Now, it would seem clear to me
6 that, myself and everyone else in this room
7 who wants to go out on Sandy Neck but we can't
8 do that because we're trying to protect the
9 piping plover, on the one hand, and we turn
10 around on the other hand and watch out for the
11 spinning blades that are mincing and dicing
12 piping plovers.

13 MR. MOORE: I ask you to hold your
14 applause. Thank you.

15 MR. BARRY: In concluding, I would
16 suggest that if a project such as this is not
17 economically viable, causes the death of
18 endangered species, ruins a pristine area at
19 no savings to the American consumer, then it
20 should not be permitted. Thank you.

21 MR. MOORE: Our next speaker is Bud
22 Groskopf, from the Yarmouth selectmen, and
23 Quincy Mosby, who is from the Barnstable

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1 another place. It's a big ocean.

2 MR. MOORE: Do we have Quincy Mosby
3 or John Griffin here?

4 MR. GRIFFIN: Yes. I'm John
5 Griffin. I live in Centerville, and I serve
6 as vice-chairman of the Barnstable Municipal
7 Airport Commission.

8 As just a bit of personal info, I'm
9 a wash-ashore, but I've been coming here all
10 my life. And for well over 50 years now, I
11 have either flown airplanes or navigated
12 vessels on and about the sound. I was also a
13 former Coney Island ferry boat captain in
14 another life.

15 The Barnstable Municipal Airport
16 Commission, by the way, agrees with our
17 friends from Yarmouth, because we're in
18 agreement as to what this might do. We have
19 been on record right from the beginning and
20 consistently opposed to this project. It's
21 primarily based on air safety. Your report,
22 the recent report, you claim negligible
23 aviation effects -- I need a little technical

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1 Municipal Airport Commission.

2 MR. HOFFMAN: I'm Aubrey Groskopf,
3 Yarmouth Board of Selectmen. All of you heard
4 my fellow selectmen. I wanted to make sure
5 we're on the record so there's no mistake:
6 The board of selectmen are against this
7 project. I asked to speak only because I
8 present to you a rather unique point of view.

9 I'm only ten years a wash-ashore.
10 I lived in Los Angeles. The area that runs
11 between Los Angeles and Palm Springs passes
12 through beautiful desert country. That
13 terrain has been despoiled by the most
14 horrific, out-of-mind accumulation of wind
15 turbines that you have ever seen. If you
16 think a horror is going to be visited upon you
17 in the Nantucket Sound, you are correct.

18 And it grows. It started small.
19 My friend, it runs for miles. The sound is
20 there. It's big. And it's in a desert.
21 Yours are going to be in the sound. The
22 lights are going to be on at night. There are
23 going to lights. And I beg you, there is

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1 assistance here. Age.

2 Negligible aviation effects from
3 the Cape Wind project really doesn't square
4 with the FAA, Federal Aviation
5 Administration's concern that the project is
6 still under a presumed hazard determination.
7 This is raising new concerns that the planned
8 turbine lines would adversely affect visual
9 sight lines of flights across Nantucket Sound.
10 These turbine towers that reach frighteningly
11 close to 500 feet above mean sea level
12 represent an obstruction. There's no question
13 about it.

14 We had an incident not too many
15 years ago where a light aircraft with a family
16 in it was returning to the islands, lost
17 power. Through really good piloting skills
18 and nursing the engine, the pilot managed to
19 get the airplane over the mainland and made a
20 successful emergency landing on a golf course
21 fairway. He stated that he never would have
22 been able to do that had these towers been out
23 there.

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1 We think it's clear that the draft
2 report ignored the concerns of pilots, airline
3 operators, and airport managers at the three
4 major airports around the sound, that the Cape
5 Wind turbines may create a great potential
6 hazard to flights between the Cape and the
7 Island.

8
9 There's approximately 400,000
10 flights above the, 160,000 roughly IFR,
11 240,000 roughly VFR, approximately, that's
12 instrument flight and visual flight rules,
13 both commercial and noncommercial, and that's
14 yearly. Part of our job as commissioners,
15 operators, whatever -- of the operators is to
16 assure the safety of all who fly to and from
17 our airports. The well-being of air crews and
18 passengers may well be compromised by these
19 130 towering turbines with blades 44 stories
20 high. Why would anyone want to put an
21 obstruction like that and create a risk that
22 doesn't now exist?

23 Minerals Management Service should
24 closely examine the concerns of the FAA and

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1 regional officials and all our municipal
2 officials that you've heard tonight and change
3 its current assessment of the Cape Wind risk
4 to aviation in its Final Environmental Impact
5 Report. The FAA itself is undertaking
6 additional study on the issue. Basically, if
7 you look at the sound, and there are tracks,
8 you can see plots of air routes. It's one of
9 the busiest lower-level air-route systems on
10 the East Coast, the traffic primarily between
11 Hyannis and the two islands.

12
13 One of the things that's
14 interesting when you start talking instrument
15 flight rules with flights is that the British
16 Ministry of Defence has conducted extensive
17 real-time studies that show significant
18 degradation of air traffic control, air
19 defense, and shipboard surface radars.
20 Problems include lost, displaced, or multiple
21 ghost targets.

22 These may occur with aircraft at
23 surprisingly high altitudes. The potential
24 impact on air safety is obvious. Cape

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1 Approach Control, which basically is our local
2 air traffic control group regionally, from
3 Providence just down to Boston and all the way
4 up through here, is located at the Otis
5 International Force Base.

6
7 The Barnstable Municipal Airport
8 Commission recognizes the potential benefit of
9 alternative energy sources when properly
10 located. We firmly believe that Nantucket
11 Sound is the worst possible location for this
12 project. Thank you.

13 MR. MOORE: Are there any other
14 elected officials who are here that either
15 arrived after we began the sequence of
16 speakers or not? If not, it's now the time
17 for the citizens. So when you signed up
18 outside, you got a number and a little card.
19 What I'm going to do is once again ask for the
20 odd numbers to come here and the even numbers
21 to come here. And when you come up, if you
22 would write your name clearly on your card,
23 and when you finish speaking, we'd like to put
24 the cards up here on the front table with

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1 Alan -- or actually, just put them right here
2 on the front step. That way he will be able
3 to get an accurate spelling of your name and
4 be able to record your comments later on.

5
6 Once again, let me mention, we're
7 not going to take a break right now. We'll
8 take a break probably in about 25 minutes.
9 But given that the facilities are limited, if
10 you want to periodically, some folks, get up
11 and use the restrooms, it will help us with
12 the rush later on during the break.

13 So what I would like to do is, I
14 don't have the names of everyone, but if
15 No. 1, 2, 3, and 4 would come up, so, 1, 2, 3,
16 and 4, state your name clearly and make your
17 comments. Thank you very much.

18 MR. SHOUBE: Good evening, MMS
19 officials and distinguished, honorable local
20 politicians and citizens of this area. Just
21 as soon as I speak, y'all can tell I'm not
22 from this area.

23 MR. MOORE: But we need your name
24 so we know where you're from.

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1 MR. SHOUBE: I'm getting there. My
2 name is Carl Shoupe, and I'm a
3 third-generation coal miner from southeast
4 Kentucky. And I'm here -- I'm also a member
5 of the Benham City Council, so I know a little
6 bit about politics.

7 But anyway, like I say, to be very
8 frank, I'd rather be back in Harlan County
9 than be up here in Massachusetts. But let me
10 tell you, from my experience in the coal
11 fields of eastern Kentucky -- and I know, I'm
12 introducing somewhat of a different issue here
13 concerning y'all's problem here with the
14 windmills. But I think this issue that I'm
15 going to talk about here briefly is very
16 important to this issue that's going on with
17 the energy and the wind power project.

18 But when you guys here in this area
19 turn on your lights, 50 percent of the time
20 coal provides the power. Increasingly,
21 mountaintop-removal strip mining of coal is
22 literally decapitating the mountains of
23 Appalachia and burying the headwater streams

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1 and the valleys below. In eastern Kentucky
2 alone 730 miles of blue-line streams have
3 already been destroyed. These coal companies
4 are ruining the very resource that is
5 necessary for our ultimate survival, and that
6 is water.

7 The issue is personal to me.
8 Mountaintop removal and hollow fills have
9 destroyed the streams I played in as a boy,
10 the streams I used to catch crayfish in, the
11 streams that were clean enough to drink from.
12 My grandchildren are increasingly being
13 deprived of our mountain way of life. There
14 are fewer and fewer places where I can show my
15 grandchildren the medicinal herbs that have
16 been a big part of our culture in the
17 mountain. That's unacceptable to me.

18 Not only is our heritage being
19 destroyed; so is our land, property, and
20 health. Our drinking water has high levels of
21 metals, extra dirt, and in some areas the
22 water table is eliminated. One example is in
23 an area on Montgomery Creek in Prairie County,

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1 where I'm from. A friend of mine, Truman
2 Hurt, he's a local preacher, he has to haul
3 buckets of water to his church in order to
4 have water for his congregation when he has
5 church.

6 There's also homes have damage from
7 mine explosions, rocks flying off the mine
8 site, putting people's lives in danger. Just
9 recently a worker was killed by flying rock at
10 his worksite. We have flooding in areas that
11 never flooded before. Our children are having
12 breathing problems, consistently breathing
13 just dust coming off these operations. We
14 have dangerous road conditions, from muddy,
15 overweight coal trucks. I could go on and on
16 with different horror stories and how coal
17 companies treat people on a daily basis. You
18 can tell the same story of this destruction in
19 most of the communities in our region. It's
20 the same stories, different holler.

21 There's a better way, and that's
22 why I'm here today. For what I've learned,
23 this guy in y'all's area up here, Bill Koch, I

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1 think his name, from Oxbow Energy, he's
2 throwing a lot of money around opposing this
3 Cape Wind project. But, you know, I believe
4 this is technically just to maintain our
5 dependence on fossil fuel.

6 But this approach to meeting our
7 energy needs is destroying our communities in
8 Appalachia. We need to start transitioning
9 now to a better way. The Cape Wind project is
10 an essential and historic part of the
11 transition. Please support this project for
12 the sake of my grandchildren and yours. Thank
13 you very much.

14 MR. MOORE: Speaker No. 2.

15 MR. LIEDELL: My name is Jim
16 Liedell, and I live right here in Yarmouth.
17 I'm a professional engineer with a career in
18 the power generation industry, and thus
19 experienced in the different ways to generate
20 electricity. I feel using free and strong
21 offshore wind is our country's clear best
22 choice.

23 The first comment I want to make:

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1 Three representatives of the Yarmouth Town
2 Board of Selectmen have stated that they're
3 opposed to the Cape Wind project on Horseshoe
4 Shoal. They implied, but they didn't say,
5 that it was unanimous. It was not unanimous.
6 I feel that decision was ill-informed because
7 it was made many years ago, long before NME
8 and EIS and long before even the Corps of
9 Engineers were in 2004. So they just made
10 this when not much was known, and they stuck
11 with it.

12 I also feel the Yarmouth Board of
13 Selectmen vote is now well behind the times,
14 especially since in the most recent poll 74
15 percent of Cape and Island residents favor
16 Cape Wind's project. And that approval --

17 MR. MOORE: Hold your comments,
18 please.

19 MR. LIEDELL: That's a fact, ladies
20 and gentlemen. And that approval has grown at
21 every single poll taken.

22 Yarmouth's Board of Selectmen's
23 negative position, if successful, will cost
24

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1 expenditures in their attempt to reduce the
2 override.

3 Of the substantial Federal lease
4 payments which Cape Wind will make, 25 percent
5 will go to Massachusetts to assist towns like
6 Yarmouth to cope with the escalating town
7 defaults. I encourage you to include Cape
8 Wind's benefits like these in your final EMS.

9 MR. MOORE: Speaker No. 3.

10 MS. ARGO: Liz Argo, founder of
11 Clean Power Now, and I was born and raised
12 right here on Cape Cod. I'm now making a
13 living as a renewable energy installer. It
14 seemed critical in the beginning, as we at
15 Clean Power Now began to assess the
16 possibility of a wind farm right here on Cape
17 Cod, to go see a wind farm and to talk to some
18 of the people, check out the view from the
19 beaches. As a filmmaker I took the
20 opportunity to make and bring some films,
21 Change of Course: The View and The Vision.
22 Many people have seen this film, and I would
23 urge the politicians in this room to look at
24

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1 Yarmouth taxpayers over \$9.5 million. Cape
2 Wind's host community agreement with the Town
3 includes more than \$6.7 of tax payments over
4 20 years for the underground electric cable
5 from Lewis Bay to the town line; almost 2.7
6 million in charitable gifts to low-income
7 families, seniors, youth, and other resident
8 groups; \$125,000 for Englewood Beach
9 improvements; and 25,000 to reimburse the Town
10 for alerting vehicle drivers of the
11 underground cable installation. I've attached
12 the details of that to the written copy I
13 turned in.

14 Regarding the \$9.5 million: Please
15 review the attached article, which was in the
16 Cape Cod Times I turned in also, last Friday.
17 It states the Yarmouth selectmen will seek 1.8
18 million at this year's town meeting to fund
19 our schools. And that amount is above and
20 beyond the State's 2 1/2 percent override
21 limit. The extra 1.5 million will be needed
22 despite the Dennis-Yarmouth School Board's
23 already having eliminated many needed
24

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1 the video and look at what the people of
2 Denmark learned. You haven't done your
3 homework, as many of the people of Cape Cod
4 apparently have, as I think the polls are
5 showing.

6 Denmark, the people were just as
7 concerned as you all are now about the impacts
8 of the potential offshore wind miles, one six
9 miles offshore and the other one seven and a
10 half miles offshore. Both of these areas are
11 totally dependent on tourism. But now, with
12 wind farms in and running, mayors, Realtors,
13 the tour guides, the naturalists, the fishing
14 communities are wholly supportive, without
15 reservation or regret.

16 So for those who are still clinging
17 to the fear that this is not going to be of
18 benefit to all of us, I think it's perhaps a
19 sign of a less inspiring element of human
20 nature. History shows it's hard for some to
21 accept the new and to change, no matter how
22 wise and wonderful history will prove the
23 change to be.
24

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1 The American Revolution, historians
2 estimate that between 15 and 25 percent of the
3 colonists remained loyal to the British Crown.
4 They were known as Tories. The Statue of
5 Liberty, the beloved symbol of the American
6 spirit, was resisted and delayed because, as
7 newspapers declared, it is neither an object
8 of art nor beauty. As we all know, it's now
9 an icon, and the real estate property values
10 have gone up with a view of it.

11 Right here on Cape Cod we have the
12 National Seashore, and many of us who grew up
13 here know that the National Seashore was
14 hugely contentious. It was very much opposed
15 by Cape residents who believed it would spell
16 doom for the effects it would have on the Cape
17 economy.

18 With the completion of the Minerals
19 Management Service report, we're finally able
20 to go forward. We need this change. It's
21 absolutely essential to the health and welfare
22 of Cape Cod. And I have seen it in Denmark
23 and will attest to it. As our shoreline

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1 recedes, and indeed as we meet this wind
2 technology, it's critical to the future of our
3 grandchildren and this planet.

4 This is not an unknown. This is
5 not an experiment. It is viable. It's
6 successful -- Denmark, England, Spain,
7 Ireland, so on. Thank you for bringing
8 forward the realities; and the fearful who
9 would sacrifice our welfare and our future
10 will eventually become as proud and pleased as
11 their forefathers became of our country and
12 our independence and the Statue of Liberty
13 and, of course, our Cape Cod's own wonderful
14 National Seashore. Thank you for your great
15 work.

16 MR. MOORE: Thank you very much.
17 If you have your name card with your number
18 when you finish, if you'll hand it to one of
19 the colleagues on both sides of the
20 microphone, then they will take it and you
21 don't have to run up here.

22 MR. DHOOGHE: Good evening. My name
23 is Gerard Dhooghe. I'm speaking for the

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1 Seafarers International Union, and I'm the
2 president of the Boston-New England Maritime
3 Trade Council of the AFL-CIO, and I am
4 vice-president of the Massachusetts AFL-CIO.

5 I'd like the touch on two points.
6 I have formal remarks which I have for your
7 consideration. But I'd like to touch on two
8 points, which have to do with the economic
9 impacts of this project. The Cape Wind
10 proposal would generate a project in excess of
11 a billion dollars. It is estimated that it
12 would generate, create approximately 800 to
13 1,000 jobs. Under agreement with Cape Wind,
14 those jobs would go to local skilled, trained
15 workers. In addition, this project will
16 potentially create a number of jobs related
17 such as turbine manufacturing, technology,
18 research engineering, as well as ongoing
19 facilities maintenance work.

20 In regards to an issue that has
21 become a little bit contentious -- and I know
22 we've had some comment on this a little bit
23 earlier in the evening, with regard to the

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1 impact on local fisheries. You talked about
2 the fisheries: The Seafarers Union represents
3 a number of commercial fishing vessels
4 operating out of the port of New Bedford
5 Massachusetts. On numerous occasions over the
6 last several years, since the introduction of
7 the, submission of the permit by the Cape Wind
8 officials, I've had the opportunity to talk to
9 a number of our contractor owners and
10 captains, who collectively have over hundreds
11 and hundreds of years of experience in fishing
12 in New England coastal waters.

13 Over these many conversations,
14 repeatedly and without exception these
15 individuals have told me that Horseshoe Shoals
16 is far too shallow for commercial fishing and
17 that that area offers very few species of
18 fish. In fact, I'm confident that a review of
19 governmental fishing and fish landing data
20 would support this analysis. Very little
21 fishing activity is conducted in that area,
22 contrary to similar concepts that were made
23 relative to the impacts of the project; and

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1 the data on shoals would support this: there
2 would be very limited effects on the local
3 fishing industry.

4 I want to commend the MMS as well
5 as the Army Corps of Engineers in their
6 efforts in developing this DEIS. I would ask
7 that you complete your review of the public
8 comments and information submitted during
9 these hearings in an expedient and timely
10 manner and release the project final
11 environmental impact statement as soon as
12 possible. Thank you for the opportunity to
13 speak to you.

14 MR. MOORE: Speaker No. 5. And
15 No. 6, No. 7, and No. 8.

16 MR. OLIVIERI: Good evening. My
17 name is Luke Olivieri, and I've been a
18 part-time resident of Yarmouth for 43 years.
19 Tonight I won't say too much about the Cape
20 Wind farce. I'll leave that job to my friends
21 here. Instead, I want to propose a green
22 energy project that truly will work on Cape
23 Cod or anywhere where there are tides or

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1 thousand homes. Imagine the entire length of
2 the Cape Cod Canal lined with turbines on each
3 edge underwater.

4 A thin line of buoys notifies
5 mariners of their position below. Scientific
6 tests have shown that the turbine blades turn
7 slowly enough not to harm aquatic life. Those
8 fish are pretty smart. They can get out of
9 the way.

10 In Europe tidal power is nothing
11 new. In France a hydrokinetic facility was
12 begun in 1960, the same year that President
13 Kennedy did the National Seashore, and has
14 been providing electric power to 90 percent of
15 the province of Brittany for over 40 years.

16 Cape Cod is an exquisitely
17 beautiful and unique natural resource known
18 the world over. The people of this precious
19 peninsula will not be bullied by callous
20 executives bent on destroying the Cape for
21 their own personal gain and then not providing
22 anybody with low-cost electricity anyway. In
23 the words of my very Italian grandmother,

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1 rivers that have running water, and that's
2 lots of places. It will provide unlimited
3 electricity: the tidal turbine.

4 The tidal turbine operates
5 underwater, completely out of sight. Only 20
6 feet in diameter, it generates electricity for
7 a solid 23 hours per day. As you know,
8 there's only one hour per day it won't spin
9 due to slack water, when the tides change
10 over.

11 Wind turbines spin intermittently
12 at best or not at all because wind is
13 inherently unpredictable and variable. These
14 underwater turbines have been tested with
15 amazing success in New York City's East River.
16 A company named Verdant Power installed a
17 single test turbine which powered a huge
18 supermarket and its four-story market garage.
19 When the turbine power kicked in, there wasn't
20 even a mild flicker of the lights. With a
21 Federal license, Verdant next installed 300
22 turbines at the edges of the East River,
23 providing complete power for eight to nine

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1 shame on you. What the hell do you think
2 you're doing? When President John F. Kennedy
3 took office, one of the first things that he
4 did was to establish the National Seashore.

5 MR. MOORE: You've reached the time
6 limit.

7 MR. OLIVIERI: We talked about not
8 interrupting.

9 MR. MOORE: I'm sorry, you're at
10 the end of your time.

11 MR. OLIVIERI: President Kennedy
12 would not mind me adapting his words: We will
13 meet any hardship, support any friend, oppose
14 any foe, in order to assure the survival and
15 success of life on Cape Cod for its people.
16 Massachusetts is a --

17 It's only a little bit more.

18 MR. MOORE: I'm sorry, sir. It's
19 time that you need to finish. Thank you very
20 much.

21 Next speaker, please.

22 MR. AIKENS: Thank you, Mr.
23 Chairman. Marty Aikens. I'm a business agent

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1 for the electricians. We have 6,000 members,
2 1100 retirees, 7100 families.

3 What they do is, they depend on
4 their paychecks from putting in electricity.
5 Now, you have a project down here. I thought
6 six years ago - we met with the company EMI
7 Energy. When I looked at this project, we sat
8 down and took a real good look at it. I
9 thought this would be a slam dunk. I thought
10 this thing here would be built in three years.
11 Little did I know I'm still talking about it.

12 We have many renewable energy
13 projects in this state going up, as you know,
14 all the time. They go around, and I speak to
15 different cities and towns about the benefits
16 of renewable energy and what they can do for
17 the town and conservation.

18 We come to a point here this last
19 week of hearings. I want to make sure that my
20 voice is heard from my members. Every day I
21 get a phone call about "Where are we with Cape
22 Wind? I thought that was already permitted."

23 You know, there's a lot of good
24

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1 things involved in this. You clean up the air
2 down on the Cape, give the Cape three quarters
3 of its electricity with clean power. It's
4 jobs -- not just the construction jobs; we
5 have maintenance jobs. The spinoff to that,
6 right now we're going to build a wind test
7 facility out by Logan Airport. Massachusetts
8 could be a leader in renewable energy.

9 The United States needs this.
10 Massachusetts needs this. And when you get
11 through with your review, I'm positive Cape
12 Wind will be built.

13 I listened to you. Have the
14 courtesy to listen to me.

15 I met with EMI Energy, and here's a
16 guy who stepped to the plate and says, "Marty,
17 I want to make sure everyone gets the
18 prevailing wage." When the Big Three are
19 trying to cut wages, which is sad, cut
20 retirement benefits -- here's a guy who wants
21 to pay retirement benefits, health benefits,
22 and a prevailing wage to everyone that works
23 in our project.
24

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1 Let's make one thing perfectly
2 clear here: Cape Wind has never paid me one
3 penny or anyone else to speak in favor of
4 this. Thank you.

5 MR. MOORE: Thank you. No. ??

6 MR. NELSEN: My name is Chuck
7 Nelsen, and I'm from Boone County, West
8 Virginia. This area here on Cape Cod is a
9 beautiful area. But I couldn't live here; I
10 love my home too much.

11 The brochures the pictures that you
12 saw of mountaintop removal, that's my home.
13 For 30 years I've worked down in an
14 underground coal mine in the Coal River Valley
15 in southern West Virginia. I'm here
16 representing our people of Appalachia, where
17 we supply most of the coal that generates half
18 this nation's energy.

19 I believe the Cape Wind project is
20 the direction our country needs to be moving
21 towards. You know, I used to like the view
22 from my back yard, but it's been blown up.
23 The coal industry uses 2500 tons of explosives
24

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1 each day on mountaintops around our homes.
2 That's one Hiroshima bomb a week.

3 We are tired of being expendable
4 for the nation's energy needs. We pray that
5 they bring windmills that would replace the
6 destruction and nightmare mountaintop removals
7 is doing to my home. Robert Kennedy, Jr. said
8 in a speech July in 2007 in Rock Creek, West
9 Virginia that if Americans could see what was
10 done to the Appalachia Mountains, the single
11 most valuable forest of timber hard woods in
12 the world, that there would be a revolution in
13 this country.

14 I think that Mr. Koch and
15 Mr. Wattley have connections with the coal
16 industry. Coal from Reynolds, West Virginia
17 is used to power much of New England's
18 electricity from coal-fired power plants. We
19 need to stop mountaintop removal from coal
20 mines, and then our people will not have to be
21 poisoned from the byproducts of coal.

22 After the coal is mined, chemicals
23 and water is used to wash the coal, resulting
24

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1 in a toxic brew, which is injected into our
2 mines, and it gets into people's drinking
3 water. This is our drinking water right here.
4 That's what it looks like when it comes out of
5 the tap.

7 It's got selenium. It's got
8 cadmium. It's got a bunch of heavy metals in
9 it. That's what we are drinking in our
10 drinking water. Would you want your children
11 drinking this water or taking baths in this
12 contaminated water?

13 My friend John Donahue died at 29
14 years old from a brain tumor. Many others in
15 this community of West Virginia have also died
16 or are still living with brain tumors. Tumors
17 are not the only problems. Teenagers have had
18 gall bladders took out. One woman I know
19 suffers greatly with liver disease and
20 permanent kidney damage from drinking
21 contaminated water. Our entire --

22 MR. MOORE: I'll ask you to, one
23 more sentence, stop, please.

24 MR. NELSEN: Our entire mountain

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1 with the National Environmental Policy Act
2 have been met. The Minerals Management
3 Service has done an impressive job in
4 preparing the document. Out of 118 categories
5 assessed, all but nine were determined to have
6 impacts ranging from negligible to minor. Out
7 of the nine, all but one was determined to
8 have moderate impacts, and those would be
9 completely recoverable with mitigation.

11 The one major impact was visual, on
12 water, as you approach the wind farm on a
13 boat. The air quality, public health, and
14 global warming benefits of this project are
15 significant. The Cape Wind project is a
16 monumental opportunity to reduce our carbon
17 footprint, and will serve to jumpstart the
18 clean energy economy here in our Commonwealth
19 and in our region.

20 According to the Pew Charitable
21 Trust, American's Living Oceans: Charting a
22 Course for Sea Change, and I quote, "Earth's
23 oceans and atmosphere are both in peril." As
24 recent studies document, our oceans face a

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1 code and other heritage is being sacrificed
2 for the nation's so-called cheap energy. It
3 is not cheap for us.

5 MR. MOORE: Thank you very much.

6 Well, folks. We have one more
7 person to speak, and then we will take a
8 first-two-hour break. Not two-hour break;
9 it's after two hours. It's a 15-minute break.
10 Some of you would like two hours.

11 MS. HILL: My name is -- good
12 evening. My name is Barbara Hill, and I serve
13 as the executive director of Clean Power Now,
14 a nonprofit, grassroots organization with over
15 10,000 members based in Hyannis,
16 Massachusetts. Our mission is to inform,
17 educate, and empower citizens to support
18 viable renewable energy projects and policies.

19 Upon review, we have concluded that
20 the Draft Environmental Impact Statement MMS
21 issued in January of 2008 is a fact-based,
22 comprehensive, scientifically vetted, and
23 peer-reviewed document. The environmental
24 standards of review based in the framework

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1 greater array of problems than ever before in
2 history. Wind energy has been the world's
3 fastest-growing energy source on a percentage
4 basis for more than a decade. Since Cape Wind
5 was first proposed, 15 offshore wind farms
6 have been built in European waters, and many
7 other are in the permitting stage. The U.S.
8 Department of Energy estimates that there are
9 more than 900,000 megawatts of potential wind
10 energy off the coast of the United States, in
11 many cases relatively near major population
12 centers. This amount approaches the total
13 current installed U.S. electric capacity.

15 This project has undergone more
16 review than any other nuclear gas, oil, or
17 coal-fired plant in New England and possibly
18 the country. Future generations will view us
19 as either heroes or fools. We must not miss
20 this opportunity to secure our country's
21 energy independence and take action against
22 the catastrophic forces of global warming.
23 Given the pressing need to move away from our
24 use of fossil fuels towards clean, renewable

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1 energy, we urge MMS to prepare the final EIS
2 and move on a record of decision as soon as
3 possible. Thank you so much.

4 MR. MOORE: Thank you very much.

5 Also thanks to all the speakers. It's now
6 time to take a break.

7 (Recess taken.)

8 MR. MOORE: During the break there
9 were several people who had some questions or
10 comments or suggestions for us as a group, and
11 so I'd like to just test some of these out.

12 One of the questions that came up
13 was, why are people who are not from this area
14 allowed to speak. The answer is that this is
15 a Federal hearing. So I realize that folks
16 locally would like to have priority, but it's
17 a Federal hearing, so folks from across the
18 country are allowed to speak. And people who
19 are speakers lined up and signed up in a
20 sequence.

21 The second suggestion that people
22 made, which we will do, is I will ask more
23 than two people to line up, so you've got at
24

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1 least three or four at each of the mikes to
2 hopefully save some time. So I'll call some
3 numbers out and have you line up at the mikes.

4 The last proposal that someone
5 made -- and this is one that is up to you --
6 is so that we have more time for more speakers
7 would it be possible to lower the amount of
8 time per speaker. So the question is do you
9 want to remain with three, or do you want to
10 go with two and a half or something like that,
11 so that more people can speak?

12 Three? Okay. It sounds like we're
13 staying with three. So that's what we'll do.

14 So for speakers, we need to have 9,
15 10, 11, 12, and 13 and 14. And when you
16 speak, please give your name and then give
17 your card to one of the people on each side of
18 the microphone. Thank you.

19 MS. WINSLOW: My name is Julie
20 Winslow. I'm from the Lower Cape, where I've
21 spent my life. I'm married and I have a
22 family. I have a small organic farm, and I
23 also have a shellfish boat in the waters of
24

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1 Pleasant Bay. I've had the good opportunity
2 to serve my community on the local
3 conservation commission, on the work
4 committees, and in a wider venue as a
5 supervisor with the Cape Cod Conservation
6 District.

7 I had an opportunity a long time
8 ago when I was much younger to visit the
9 Scandinavian countries. When I returned to
10 the Cape, something struck me very hard, and
11 that was the quality of the air here. It is
12 something we all take for granted, but it
13 seemed degraded. I think that's something
14 that we've lost our awareness to, that we are
15 in a state of degrading the environment,
16 whether it's the water quality, air, or other
17 aspects. And we've become complacent with it.

18 I think it's important to take
19 steps forward and see that this windmill
20 project can be done for the future, for the
21 next generation. Thank you.

22 MR. MOORE: No. 10?

23 MS. KLEEKAMP: Good evening. My
24

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1 name is Kathryn Kleekamp. I want to thank you
2 for all of the effort you've put into this.
3 Thank you for making the report available upon
4 request.

5 I'd like to address a statement
6 made in the report on visual impacts. This is
7 under conclusions on visual impacts to
8 recreational areas during operation. I'll
9 quote from your report. "Conclusions as to
10 the significance of visual impact on the
11 people using recreational areas are difficult,
12 as the interpretation of visual impacts is
13 subjective."

14 I think it's clear that much of the
15 opposition to the Cape Wind project indeed
16 does lie with the perceived visual impact.
17 Those who fear the site or fear the unknown
18 have couched their opposition in claims of --
19 claims that I feel are somewhat exaggerated --
20 of bird kill, oil spills, diminished tourism,
21 real estate devaluation. But we know from
22 studies and we know from viable European
23 installations that these claims do not warrant
24

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1 the merit. The installations in Denmark, the
2 UK, Sweden, the Netherlands, not only are
3 viable, but they've been successful, so that
4 dozens more are actually being planned.

5 I'd like to share just a couple of
6 paragraphs that are in an article published in
7 New Scientist magazine, and the author is
8 David Suzuki. And he shares his insight on
9 the concept of visual impact and beauty
10 specifically as it relates to wind farms. "We
11 see beauty through filters shaped by our
12 values and beliefs. Some people think wind
13 turbines are ugly. I think smokestacks, smog,
14 acid rain, coal-fired power plants, and
15 climate change are ugly." I'm quoting Dr.
16 Suzuki. I would add for myself, seeing the
17 pictures of the sacred mountains of Appalachia
18 being blown apart, to me, that's very ugly.

19 Suzuki goes on, "I think windmills
20 are beautiful. They harvest the power of wind
21 to supply us with heat and light. They
22 provide local jobs. They help clean our air
23 and reduce climate change. And if one day I
24

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1 look out from my cabin's porch and see a row
2 of windmills spinning in the distance, I won't
3 curse them. I will praise them. It will mean
4 we are finally getting somewhere." Thank you.

5 MR. MOORE: Thank you. No. 11?

6 MS. KEATING: Greetings from wild,
7 wonderful West Virginia. My name is Janet
8 Keating, the executive director of the Ohio
9 Valley Environmental Coalition, located on the
10 inland coal port at Huntington, West Virginia.
11 I'd like thank the Minerals Management Service
12 for the opportunity to voice our support for
13 the Cape Wind project.

14 As a representative of our group,
15 we support the Cape Wind project because our
16 precious mountains, as you've already heard,
17 are being destroyed by the most egregious form
18 of mountaintop removal, strip mining of coal,
19 which is truly a national disgrace. This
20 project, Cape Wind, can help our transition, a
21 much-needed transition, to a clean energy
22 future.

23 A new book just came out recently
24

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1 called Coal River, and on the back of that
2 book is a quote from Robert Kennedy, Jr. And
3 he says, "The Coal River is the dismaying
4 story of Armageddon in Appalachia. I invite
5 you to come and see it for yourself." And he
6 continues by saying, "Knowing the powerful
7 forces of ignorance and greed are dooming
8 America's landscapes, our culture, and
9 democracy." And I say amen to that.

10 I'm going to skip to a story that I
11 think is really important for you to hear. On
12 August 19th, 2004, a little boy name Jeremy
13 Davidson was lying in his bed asleep, tucked
14 away by his parents. There was a mountaintop
15 removal site above his home. A giant bolder
16 dislodged and crushed this three-year-old in
17 his bed. The rock stopped short of his
18 brother's bedroom.

19 Mountaintop removal is killing
20 Appalachia. It's killing our hopes and our
21 dreams and our future. We need your help in
22 Appalachia.

23 I'm asking you to be heroes here.
24

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1 Make a few sacrifices. I'm sorry. I do have
2 some sympathy for those who are concerned
3 about their view, but come and see the
4 viewsheds and how they've been despoiled in
5 Appalachia.

6 In October of 2001 a giant slurry
7 impoundment, 72 acres of toxic coal sludge,
8 failed. It inundated 75 miles of stream
9 between Kentucky and West Virginia: Coldwater
10 Creek, Wolf Creek, Tug Fork River, Big Sandy
11 River to the Ohio, everything in it died. 309
12 million gallons of toxic sludge, and I bet
13 nobody in here heard about it because the
14 folks in Appalachia are expendable. And we're
15 tired of bearing the burden of everybody's
16 energy use.

17 So I hope you really think about
18 your decision you make here today. I have a
19 picture of Jeremy if anybody would like to see
20 it. I'm going to submit it for the public
21 record.

22 In West Virginia they destroy
23 cemeteries for mountaintop removal. A
24

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1 national historic site, Blair Mountain, is
2 slated to be destroyed. Nothing is sacred in
3 West Virginia, and I hope --

4 MR. MOORE: Hurry.

5 MS. KEATING: I just hope you will
6 end this destruction and support this project.

7 MR. MOORE: If I could ask No. 13,
8 14, 15, and 16 to please come up.

9 MR. FREEMAN: (Singing) "Hey, Cape
10 Coddors, it's been a long and contentious
11 review. Hey, Cape Coddors, it's been three
12 years since we've been here. Here comes the
13 wind, here comes the wind. And I say, it's
14 about time, it's about time."

15 There's a bar against all
16 information which is proved against all
17 arguments and which cannot fail to keep us in
18 everlasting ignorance. That principle is
19 contempt prior to investigation. It is
20 stunning to hear so many people here
21 questioning this, the fourth round in seven
22 years of research. I hear people say they
23 don't agree with the results, so we want a
24

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1 revolution, well, you know, we all want to
2 change the world. If you say you'll just go
3 right on polluting, well, you know, you better
4 change your mind instead. But when you go
5 talking about burning oil or coal, don't you
6 know that you can count me out? Don't you
7 know it's going to be all right? Wind
8 renewables light up the night. The truth's
9 taken a beating in this fight. Don't believe
10 the lies, don't believe the hype. Green
11 energy is the solution. Well, you know,
12 common sense is the plan. A wind farm makes a
13 contribution, well, you know, we're all doing
14 what we can. But if you're against the wind
15 farm in Nantucket Sound, you're not really up
16 with what's going down. You know, it's going
17 to be all right, when it's more about war-free
18 than the sight, yeah. You know it's going to
19 be all right."

20 MR. MOORE: I want to tell you,
21 your colleague up here on the keyboard was
22 really trying to keep up with you.

23 MR. PECKHAM: I don't know if I can
24

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1 fifth do-over.

2 We call this paralysis by analysis.
3 Just keep analyzing it until you get the
4 results you want. The real-life examples in
5 Denmark, Spain, England, Ireland show that it
6 does work, it is safe for fish and birds and
7 humans, and capacity is being quickly built
8 up. It is amazing to hear the carefully
9 crafted misrepresentations of the opposition
10 parroted throughout all the speaking points
11 used against this project. I can deconstruct
12 every point used today. If you see me on the
13 street, ask me.

14 I work in the renewable-energy
15 field. I'm in it 24/7. Ninety-nine percent
16 of the solar-panel installers and wind
17 installers are all for this safe technology,
18 that no boat or plane has ever ran into.
19 Anyone paying energy bills or town taxes knows
20 we face a large problem, but what we need is a
21 renewable energy revolution. We need all the
22 green capacity we can get.

23 (Singing) "Renewable energy
24

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1 top that. My name is Stephen Peckham. I've
2 lived in the Town of Barnstable for all of my
3 57 years. A warm welcome to the Minerals
4 Management Service to Cape Cod. I admire the
5 integrity and due diligence that your agency
6 has demonstrated through this long and arduous
7 permitting process. I applaud your ability to
8 withstand the political and outside influences
9 you have withstood without being hijacked in
10 order to carefully review and hopefully permit
11 this most important project. I salute your
12 determination to have the first offshore wind
13 farm review be as comprehensive as possible,
14 insuring that others will follow without fear
15 of the delays this project has endured for so
16 many agonizing years.

17 Welcome to ground zero. For the
18 better part of my life I have and continue to
19 boat in Nantucket Sound. I am a contractor,
20 and the majority of my work is in Nantucket.
21 I travel back and forth many times a week by
22 commercially operated planes and fast ferry,
23 and I'm not afraid.
24

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1 I am wholeheartedly behind the Cape
2 Wind project. I firmly believe this project
3 to be in the right place and long overdue.
4 The residents of Cape Cod have been too long
5 subjected to the tall tales of woe and
6 destruction by the well-funded opponents --
7 the innuendo, the red herrings, the
8 misrepresentations, the prejudice, the lies in
9 newspapers or on the radio. My favorite --
10 I'm not going to read the whole list, litany
11 of them. But my favorite, my all-time
12 favorite is you'll be able to see the turbines
13 from the airport rotary. You guessed it,
14 another desperate lie by the opponents. I
15 have had quite enough of this irresponsible,
16 selfish, myopic rhetoric.

17 The air we breathe, the water we
18 drink and swim in, the fish, the farm products
19 we eat are polluted and are becoming much more
20 so each and every day. Cape Wind is an
21 opportunity for our community to start to
22 reverse this catastrophic environmental
23 disaster we are bequeathing to our children
24

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1 and our grandchildren to suffer.
2 I and the other 10,000 documentable
3 members of Hyannis-based Clean Power Now who
4 arduously support this project and trust MMS
5 will have the forbearance and strength to
6 complete their review and ultimately put their
7 stamp of approval on this historic and
8 accurate project. Thank you for listening.

9 MR. MOORE: I'd like to have Nos.
10 14, 15, 16, 17, and 18 come up to the mikes so
11 you'll be ready to talk.

12 MR. WATTLEY: I am Glen Wattley,
13 president and CEO of the Alliance to Protect
14 Nantucket Sound. I first wish to thank the
15 Minerals Management Service for extending the
16 public comment period to April 21st. As you
17 indicated, the additional time is greatly
18 needed.

19 However, I am disappointed and
20 concerned that the MMS has failed to issue the
21 renewable energy regulations for the Outer
22 Continental Shelf. These regulations are
23 critical and should have been available almost
24

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1 two years ago. Without these Federal rules
2 for our oceans, it's unfair to ask the public
3 to review the Cape Wind DEIS at this time.
4 Furthermore, I am concerned that
5 the DEIS does not have the U.S. Coast Guard
6 terms and conditions for boating and marine
7 safety. Boating safety is a critical issue on
8 Nantucket Sound. The Alliance has hired more
9 than 50 experts to evaluate the DEIS report.
10 The list of deficiencies is becoming rather
11 long. Unfortunately, the DEIS appears not to
12 be better than the last one we saw from the
13 Army Corps, which was rejected.

14 One issue of great importance: The
15 DEIS alternative site analysis must now look
16 at deepwater sites. The Blue H announcement
17 today confirms that alternative energies such
18 as deepwater is available now and it must be
19 considered. This is a technology from Europe.
20 We have heard many times that the U.S. should
21 follow the European leads. Here is an
22 excellent opportunity for us to do so.

23 I do applaud the MMS for including
24

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1 in Appendix F an economic analysis of wind
2 farms at the ten sites. Many of us have been
3 saying for a long time Cape Cod is too
4 expensive for the New England market. I am
5 pleased, MMS, that your analysis supports that
6 conclusion. We have many people on Cape Cod
7 who are on fixed incomes and cannot afford to
8 have our electric bills increase.

9 As Senator O'Leary requested when
10 he spoke earlier, we need to end this conflict
11 and consider win-win solutions. We need to
12 employ the MMS policy for community consensus.
13 I hope in the future that you will employ that
14 rule that you have for your own internal use.

15 There are many issues that must be
16 addressed. Unfortunately, it looks as though
17 we will need a supplemental draft EIS. Thank
18 you very much.

19 MR. MESSER: Good evening. My name
20 is John Messer. I'm from Big Stone Gap,
21 Virginia. I had my first tour of the Cape
22 yesterday, and I see why you hold it so dear.

23 I have a prepared statement. The
24

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1 very foundations of our great nation are built
2 on sacrifice and cooperation, and that
3 greatness can only be sustained with good
4 citizenship, the willingness of an individual
5 to compromise one's personal agenda for the
6 benefit of all.

8 Our history is replete with
9 examples of good citizens stepping forward in
10 times of crisis to give something of
11 themselves, often their lives, for the comfort
12 and security of those less fortunate. And it
13 is only by following those examples that we
14 the people can hold onto the dream of a better
15 tomorrow, not just for a few, but for all our
16 fellow Americans.

17 In an unpredictable world where at
18 any given moment some may find themselves in
19 dire circumstances, the only hope that we have
20 is that others may extend a helping hand.
21 Today we face a crisis that is unique to our
22 time, the inevitable depletion of fossil fuel,
23 the effects of which will be felt worldwide,
24 without distinction to social and economic

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1 daily basis.

3 On behalf of the people of
4 Appalachia in coal fields, I bring this
5 message: that despite the broad negative
6 perception others may have of mountain folks,
7 we are in fact informed and acutely aware of
8 the impending necessity for renewable and
9 sustainable energy sources. We find hope in
10 the fact that at present the technology exists
11 and stands ready to offset 20 percent of our
12 energy needs with wind power. That could mean
13 a 20 percent reduction in the destruction of
14 our mountains, our very souls --

15 MR. MOORE: Excuse me. You need to
16 finish up. One more sentence, please.

17 MR. MESSER: The Cape Wind project
18 is an exciting, viable step in the way forward
19 for all Americans and must be permitted to
20 move forward. It is time for the destruction
21 to end and the healing to begin.

22 MR. BARRETT: My name is Edward
23 Barrett, and I am president of the
24 Massachusetts Fishing Partnership, an

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1 standing. To put it simply, the absence of
2 electrical energy could be more frustrating to
3 the wealthiest among us than it would be for
4 the poorest, yet ironically it is
5 predominantly the wealthy who insist on
6 maintaining the status quo.

8 For more than 100 years the people
9 of southern Appalachia have worked diligently
10 and sacrificed greatly to provide the fuel for
11 electrical generation. As the demand has
12 grown, so has the destruction of the
13 environment and subsequently the quality of
14 life of the very people on which we depend to
15 provide coal-fired power. Now, with the
16 advent of explosives and machinery that can
17 literally destroy an entire mountain within
18 months, the extraction of coal has become
19 reckless and even criminal in its scope,
20 without regard to any environmental impact.
21 As a consequence, the quality of life in
22 Appalachia has become Third Worldly, people's
23 lives uprooted and dispirited by the
24 destruction they must witness and endure on a

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1 organization of 19 fishing associations in the
2 state.

4 We at the MFP strongly disagree
5 with the findings of the Minerals Management
6 Service, DEIS. We believe the level of
7 information provided by the DEIS does not
8 properly evaluate the potential economic and
9 environmental impacts of this large and
10 precedent-setting project on commercial
11 fishing. This level of effort is particularly
12 minimal when compared with similar efforts
13 undertaken by other offshore wind farms from
14 around the world. We at the MFP will be
15 submitting a report using economic models that
16 have been accepted by courts in such cases as
17 the EXXON VALDEZ, that will state that the
18 economic impact of this project is not the
19 \$15,000 cumulative figure reported but in the
20 millions of dollars.

21 There are deficiencies in the
22 analysis that are equally troubling. An
23 example of this is the mischaracterization of
24 the existing fluke fishery fleet. In the DEIS

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1 it states there are 58 boats permitted to fish
2 for fluke. In fact, there are 1130 vessels
3 permitted to fish for fluke. Getting such
4 basic facts wrong erodes our confidence that
5 this analysis could come to an accurate
6 conclusion.

7
8 The MFP believes that the
9 development of Cape Wind will hurt fisheries
10 and fishing now and in the future. We believe
11 that DEIS failed to accurately analyze the
12 effect that this project will have on, 1,
13 essential fish habitat; No. 2, the
14 socioeconomic impacts on the fishing
15 communities; and 3, the safety risks it will
16 bring to our community.

17 What we need is a consistent
18 Federal policy that provides national rules
19 and regulations for the placement of such
20 projects, policies that comply with the
21 mandates of the Sustainable Fisheries Act and
22 develop safety provisions by the Coast Guard
23 before we start approving permits in a
24 helter-skelter fashion. Thank you.

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1 MR. MOORE: Remember we asked, when
2 we asked people to come in, not to bring signs
3 and posters. But we have a colleague here who
4 does have not a sign and poster, but it a
5 chart and graphs and maps. These are from the
6 DEIS.

7
8 Would you set the clock back and
9 start it right now. Thank you.

10 MR. CARROLL: First of all, I feel
11 very bad for the coal miners that have shown
12 up here tonight. But please, let's not forget
13 the fishermen that are killing themselves
14 every day for us around here. They have their
15 own battle that's going on, which we're also
16 trying to protect.

17 My name is Cliff Carroll, one of
18 the proud fathers of Windstop. I've been on
19 the front line of this battle for over six
20 years.

21 Dr. Cluck, you said that this is
22 one of your favorite parts. We'll see how you
23 feel when I finish. First of all, let's be
24 clear: Your contractor, TRC, is not unbiased.

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1 In fact, they either work for the government
2 or they help wind farm developments get
3 permitted in the country. That's the only two
4 things that they do in reference to wind
5 farms.

6
7 The bias of this document is very
8 clear. It's a misleading, inaccurate, and
9 incompetent report which you have produced.
10 One of your most blatant omissions in this
11 incomplete report is the potential disaster of
12 the ten-story 40,000 gallon oil transformer
13 that this private developer wants to put in
14 the middle of our fishing grounds just off our
15 virgin beaches. Cape Wind's own spill
16 analysis, which is contained in your DEIS,
17 states that in the event of a rupture or an
18 oil spill that there's a greater than 90
19 percent chance that this oil slick will soil
20 our beaches' fishing grounds in less than 4.8
21 hours. You call this effect minor.

22 In addition to that, despite the
23 request of every coastal town in Nantucket
24 Sound, you and the developer have never

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1 produced the name, date, manufacturer, or
2 toxicity of the oil to be contained in that
3 transformer platform. The oil used in Denmark
4 is 9 SX-10. It is not biodegradable, and it
5 is hazardous to a marine environment. Even
6 though Cape Wind's spill analysis clearly maps
7 out the coastal area that will be devastated
8 from this oil slick, you have never used the
9 NOAA sensitivity index maps, which will map
10 out the costs to our fishing grounds,
11 shellfish grounds, and our tourist economic
12 zones. You have not estimated the cost of
13 this. You have not demanded a bond so that we
14 are not stuck with costs of the economic
15 disaster that will result from this oil slick.

16
17 For those of you from MMS, this is
18 not Galveston, Texas. It is not the Gulf of
19 Mexico. This is Nantucket Sound. It is our
20 beach. It is the heart and soul of Cape Cod.
21 It is the economic engine of the way that we
22 survive down here.

23 In my opinion, your negligence in
24 the preparation of this flawed document,

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1 combined with your flagrant violations of the
2 National Environmental Permitting Act, borders
3 on the criminal. That is how blatant some of
4 the changes you have made are. I'm fully
5 aware of what's going on behind the scenes in
6 squashing comments from Federal agencies. I
7 think this document should be thrown out.

8 MR. MOORE: I would like to request
9 that in the future, if you have comments about
10 the MMS, you can talk about the agency, but
11 you cannot disparage an individual here.
12 That's one of our ground rules that relates to
13 civility.

14 Thank you. Next?

15 MR. O'BRIEN: My name is John
16 O'Brien. I'm with the Cape Cod Chamber of
17 Commerce. The Cape Cod Chamber of Commerce
18 has consistently opposed the construction of
19 130 wind turbines on 24 square miles of
20 Nantucket Sound. We believe that a thorough
21 analysis reveals that the project does not
22 meet the simple test of benefits exceeding
23 costs.

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1 Power generation in a complex
2 deregulated electrical industry is difficult
3 to understand. Electricity is a commodity
4 that is consumed as soon as it is produced.
5 It cannot be stored. The deregulation of
6 generation in order to spur of competition
7 completely changes the competitive playing
8 field. No longer are utilities guaranteed a
9 rate of return. Investment and risks at very
10 high levels have opened the door to
11 public-relations campaigns and claims that are
12 designed to put their adherents in the best
13 light or the poorest light.

14 The Cape Wind project would be
15 integrated into the six-state New England
16 grid. A lot of the electrons would come to
17 the Cape, but the true test of value relates
18 to capacity, efficiency, timeliness,
19 redundancy, and cost.

20 Electricity can only be sold in one
21 of two ways: A producer can sell through a
22 bidding process on the daily spot market, or
23 the generator can sell through a long-term

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1 contract negotiated with the distributor.
2 Cape Wind is proposing 130 turbines with a
3 rated capacity of 468 megawatts. But because
4 the wind is variable, the DEIS assumes a
5 capacity of 40 percent. Electricity, however,
6 is more valuable at peak demand times, but it
7 would be impossible to have a reliable system
8 if the system operation is trying to rely on
9 wind energy during these peak hours. The
10 system then needs redundancy or backup from
11 other sources. Fossil fuel plants, coal, oil,
12 nuclear need to be available instantly when
13 needed. As the switch is turned on or cut
14 back, this is a decision based on availability
15 and location.

16 It is difficult then to assess the
17 direct effect of a wind plant on air quality
18 or fossil fuel consumption. Claims made from
19 the best-case scenarios are suspect. The DEIS
20 economic analysis is a very good attempt at
21 trying to calculate the cost of energy
22 required as the sum price that would support
23 the debt service to build this project. The

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1 report notes the escalating rise in steel and
2 copper prices and arbitrarily notes the
3 debt/equity structure of 75 to 25 and at least
4 a 1-to-3 debt-service coverage over a 15-year
5 period.

6 One can argue with these parameters
7 given the current credit market, but if we
8 assume that this is a good-faith effort, the
9 resulting cost of energy for this project in
10 Horseshoe Shoals would be \$122 per
11 megawatthour. The other alternative sites
12 would range to a high price of \$299 a
13 megawatthour. That's in contrast to the
14 present \$66 per megawatthour. Thank you very
15 much.

16 MR. MOORE: Thank you very much.
17 All of the speakers, from now until 20, if you
18 will come up, so every number up through 20.

19 MR. BUSSIERE: Good evening. My
20 name is Robert Bussiere. I am one of the
21 other proponents of Windstop. We've been
22 fighting this battle again, like I've said,
23 for six years. The battle is because we're

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1 citizens, we have the same passion, we have
2 the same desire to keep our property and our
3 values up and use the sound.

4 We're not opposed to wind power.
5 We're opposed to industrialization of
6 Nantucket Sound and what it represents for our
7 future generation. To learn about the future,
8 look to the past. And we can see what has
9 happened, because the definition of insanity
10 is doing the same things over and over and
11 expecting different results. We know we need
12 to change, but we don't need to give away
13 Nantucket Sound.

14 These citizens were here at the
15 Army Corps of Engineers meeting. They're
16 going to be here at the next government
17 agency. They're here today. They're going to
18 be here again to oppose this.

19 I have another co-founder. He's
20 not here, but he sent a message he would like
21 to play. And everybody here who has the
22 sheet, you can play along with me.

23 (Tape recording played.)
24

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1 MR. MOORE: The time is up. Thank
2 you very much. No. 20?

3 MR. KEDING: I'm Jim Keding,
4 commercial fisherman, one of those invisible
5 fisherman no one seems to see fish the sound.
6 I've been fishing the sound for a little more
7 than 24 years.

8 I feel very bad for people in West
9 Virginia. I'm a father. I don't want to see
10 some child killed because of some erroneous
11 stuff going on.

12 But everybody seems to think that
13 this is just because the view is going to be
14 lost. Well, I'm going to be displaced out of
15 commercial fishing in the sound. I don't know
16 how everybody feels about that. I have a
17 family to feed. As we all know, the
18 government is killing us slowly. I don't know
19 how else to put that nicely. So that I am all
20 for alternative wind power, not in Nantucket
21 Sound. There's got to be other places that
22 you can put this project where it won't kill
23 us.
24

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1 I only had 37 1/2 days a year to
2 fish, through the government, and
3 Massachusetts has a regulated fishery, scup,
4 squid, summer flounder, which they do in
5 Nantucket Sound. It does not go against my
6 days at sea. So that's how I fare through the
7 rest of the year. At \$3.70 for fuel, I don't
8 think we can make it any other way.

9 So I'd really urge you to take this
10 project and put it somewhere it belongs.
11 Thank you.

12 MR. MOORE: I have another question
13 here for you. I am concerned that everyone
14 who needs to speak tonight will not get a
15 chance. I need to ask you again, can we lower
16 the amount of time so that more people can
17 speak? Because it's more likely that there
18 will only be 60 people if we stay with the
19 three-minute limit. Can we go to two?

20 All right, we'll go to three, but
21 it means that not as many people will speak.
22 Let me propose this: We'll do three. Any
23 speaker who can do it in less than three, it
24

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1 would be greatly appreciated. Thank you. So
2 21, 22, 23, and 24.

3 MS. GLASSMAN: I'm Sarah Glassman,
4 the research operations manager at Beacon Hill
5 Institute, Suffolk University. My testimony
6 focuses on the sections of the DEIS that deal
7 with economics.

8 Firstly, there's still no
9 cost/benefit analysis, a serious omission.
10 Presidential executive order 12866 states that
11 each agency shall propose or adopt a
12 regulation only upon a reasoned determination
13 that the benefits of the intended regulation
14 justify its costs. The Cape Wind proposal
15 should not be exempt from this test. Our
16 research shows the Cape Wind project is not
17 economically viable. Economic costs exceed
18 economic benefits by \$209 million.

19 Secondly, tourism could well be
20 hurt. The DEIS asserts that the proposed
21 action is located far offshore and is not
22 expected to affect tourism. This conclusion
23 is too optimistic. In our 2003 study 62
24

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1 percent of the sample of tourists surveyed
2 believed that the turbines lessened the area's
3 appeal as a vacation destination.

4 Lastly, property values may
5 decrease. The DEIS states that currently
6 available information does not support any
7 firm conclusion with respect to the wind
8 facility's effect on the property value.
9 However, based on our surveys undertaken in
10 2003, homeowners believe that the windmill
11 project will reduce property values by 4
12 percent and waterfront property by 10.9
13 percent. This will represent a loss of over
14 \$1.7 billion if applied to current property
15 values. So hopefully you'll take these
16 comments into consideration when you revise
17 the draft. Thank you.

18 MS. PARKER: My name is Audra
19 Parker, and I'm a director at the Alliance to
20 Protect Nantucket Sound. I would like to
21 address Cape Wind's impacts on local jobs,
22 which the DEIS grossly understates. In fact,
23 after reading a number of expert reviews, I

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1 find the omissions and misrepresentations in
2 the DEIS to be remarkable. For example, the
3 DEIS looks only at jobs created from the
4 construction, maintenance, and operation of
5 the proposed project, without considering the
6 jobs that would be lost from declines in
7 tourism and from putting the livelihoods of
8 our commercial fishermen at risk.

9 The DEIS states that MMS has
10 received mixed comments from the public. Some
11 believe Cape Wind would be negative for
12 tourism and some believe it would be positive.
13 And while the DEIS leans towards dismissing
14 the negative impacts, it ultimately states
15 that it is difficult to predict.

16 It is totally unacceptable to be
17 satisfied with such a conclusion when it is
18 us, the residents of Cape Cod, that will be
19 saddled with the risk of lost jobs and lost
20 business.

21 In the only study done to date on
22 the effect of Cape Wind's tourism and jobs,
23 the Beacon Hill Institute estimated up to 2500

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1 lost tourism-related jobs. What is our
2 guarantee that Cape Wind will not affect our
3 local economy without a definitive conclusion
4 in the DEIS or any monetary guarantee from the
5 developer?

6 The DEIS also admits that few
7 permanent jobs will be created by Cape Wind
8 and that even fewer would be local, with
9 construction based in Rhode Island and service
10 and maintenance in New Bedford. During the
11 long and destructive construction period,
12 covering 27 months and two full tourist
13 seasons, the DEIS states that less than 400
14 full-time jobs would be created and only 135
15 of those would be local. Construction would
16 require only a small number of workers, and
17 most of them would commute to the area.

18 During the operating phase, even
19 fewer direct local jobs would result. Only
20 450 workers would be needed, and again, most
21 jobs would not be local, with maintenance
22 based in New Bedford.

23 I request that MMS revisit the DEIS

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1 and consider the thousands of tourism-related
2 jobs that would be lost, the risks to the
3 livelihood of our fishermen, and offset the
4 significant losses against the very few local
5 jobs that would come from this irresponsible
6 and costly project.

7 Finally, with regards to the sham
8 of a poll that claims the majority of us
9 support this industrial plant, you need only
10 look at the intense opposition in this room
11 today to know otherwise. And I thank each and
12 every one of you here that took the time today
13 to make your opposition loud and clear. Thank
14 you.

15 MR. MOORE: No. 23, 24, 25, 26, and
16 28.

17 MS. NORTHCROSS: Hi. I'm Wendy
18 Northcross, CEO of the Cape Cod Chamber of
19 Commerce. As correctly stated in the DEIS,
20 the Cape's economy is largely based on
21 (inaudible) visitor industry. This is still
22 the case in 2008, with excess spending around
23 \$2 billion when the island economies are

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1 factored in. That's direct spending, \$2
2 billion. The Cape Cod Chamber has over the
3 years invested resources to understand this
4 visitor economy and its psychographics. We
5 have enlisted professionals utilizing focus
6 groups, online surveys, and visitor
7 intercepts, with results pointing to the
8 primary reasons people travel here are natural
9 beauty, scenic views, and ocean beaches. We
10 have quantified why people visit, and it is
11 not to view power plants.

12 In a highly competitive tourism
13 landscape, the view is important.
14 Well-accepted procedures exist to evaluate
15 visual impacts, and they should be used to
16 evaluate the Cape Wind project. It is
17 insufficient to rely on the, quote, "many
18 comment letters," close quote, as a substitute
19 for a professional visual-impacts study.

20 The DEIS reports that visual
21 impacts are important from Cape Cod locations,
22 as a proposed action would change the views
23 out to Nantucket Sound from a mostly natural

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1 ocean setting to a setting with manmade
2 features, present across a substantial portion
3 of the horizon. Considering this statement,
4 how can the DEIS conclude, "Thus, the proposed
5 action would have moderate visual impacts to
6 recreation resources"? It's not clear what
7 "moderate visual impact" means or how that
8 would even be mitigated, but the visual impact
9 assessment found that the project would have
10 an adverse affect from nearly every location
11 with a view towards the turbines.

12 The DEIS recognizes that the scenic
13 value of Nantucket Sound and its surroundings
14 is an important foundation for the local
15 tourism economy. A systematic assessment of
16 the possible impacts to the local economy from
17 degrading the scenic value needs to be
18 conducted. We have been zoning the land for
19 centuries because concerns for the viewshed
20 are appropriate. The mass and scale of this
21 proposed industrial power plant, the visual
22 impacts during day and night must be
23 considered as it relates to the impact on our

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1 economy.
2 In conclusion, we believe it would
3 be instructive for MMS to investigate public
4 reports also on the financial details of
5 offshore wind projects in Long Island,
6 Delaware, and Texas that have been scrapped
7 for economic reasons. The costs of this
8 project far outweigh the benefits.

9 MR. MOORE: Thank you very much.
10 24?

11 MS. NICKERSON: Good evening, and
12 thank you, MMS, for giving us the opportunity
13 to speak here this evening. And thank you,
14 all of you, who are here tonight who love
15 Nantucket Sound. I appreciate you coming out
16 this evening.

17 My name is Susan Nickerson, and I'm
18 executive director of the Alliance to Protect
19 Nantucket Sound. Like so many in this room,
20 we support development of offshore wind energy
21 sites that provide significant benefits and
22 have few conflicts with natural resources or
23 existing uses. In addition to the problem of

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1 releasing the Cape Wind DEIS before the
2 Federal regulations governing offshore wind
3 development are in place, the DEIS is
4 fundamentally flawed, in terms of the purpose
5 and needs statement, which is the very heart
6 of the DEIS, and the range of alternatives
7 that flow from it.

8 The Cape Wind project has been
9 marred with controversy since its inception
10 because of the conflicts the Horseshoe Shoals
11 site poses to existing uses, environmental
12 resources like fish, bird, and bats, and
13 public safety. If MMS had conducted the
14 alternatives analysis that is called for under
15 the National Environmental Policy Act,
16 constructive alternatives to the Cape Wind
17 project could have been attained.
18 Unfortunately, MMS has instead adopted a
19 description of the project's purpose and need
20 that arbitrarily restricts consideration of
21 alternatives to only those that meet the
22 desires of Cape Wind. In fact, MMS is
23 required by law to consider more than Cape

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1 Wind's objectives.

2 Federal case law establishes that,
3 quote, "Evaluation of alternatives mandated by
4 the National Environmental Policy Act is to be
5 an evaluation of alternative means to
6 accomplish the general goal of an action. It
7 is not an evaluation of the alternative means
8 by which a particular applicant can reach his
9 goals," end quote.

10 It appears that MMS is ignoring
11 legal authority. The general goal of this
12 action you are considering is to produce
13 renewable energy, plain and simple.
14 Reasonable alternatives to the Horseshoe
15 Shoals site do exist, which would provide the
16 social benefits claimed by the proposed
17 project, without risking public safety, the
18 local economy, or the fragile Nantucket Sound
19 ecosystem, and which would have community
20 support that is now missing.

21 MMS should revise the DEIS with a
22 supplemental report, undertake the
23 consensus-based process recently called for by
24

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1 on the Cape Wind website. This data needs to
2 be verified by a responsible, independent
3 agency.

4 A 50 percent reduction in wind
5 speed would mean a 75 percent reduction in
6 power generated. The relation is geometric,
7 not linear. If you're serious about
8 wind-driven electrical power, you put the
9 turbines offshore at the edge of the
10 Continental Shelf, where you get a constant 20
11 knots, 24/7/365.

12 Also, there's a hydroelectric plant
13 in northern Quebec Province that already
14 supplies some of New England's power. It
15 could be increased. There is now the Blue H
16 project, which is infinitely better than this.
17 There's a severe safety hazard posed to
18 shipping, fishing, recreational boating, and
19 air traffic.

20 Now the aesthetics of architecture:
21 The tips of the blades will rise to 440 feet.
22 At that height the horizon is 27 miles away,
23 meaning that this will be seen from East
24

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1 your umbrella agency, the Department of the
2 Interior, and expand the alternatives review
3 of the Cape Wind project so that constructive
4 community-preferred alternatives can be
5 properly identified and assessed. Thank you
6 very much.

7 MR. MOORE: Everyone who has
8 numbers up to 30, please come up to the mikes.

9 MR. HEMENWAY: Todd Hemenway, from
10 South Dennis. I'm against it. I've been
11 sailing in Nantucket Sound for 50 years, and
12 over the last ten years I've observed far less
13 wind in the sound than before.

14 There's a discrepancy between the
15 data posted by the Horseshoe data tower and
16 the actual speed of the wind. On March 8, at
17 1600 hours, with wind from south, I read 18
18 knots, gusting to 22. The tower posted 28 to
19 32. On March 9th at 1400 and 1600 hours, with
20 wind from the northwest, at Scarborough Hill
21 tower, I read 10 to 20, the tower posted 25
22 to 30. There's a clear difference of 10 knots
23 between the actual wind speed and that posted
24

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1 Chatham, Monomoy, Nantucket Island, the
2 Vineyard, most of the Elizabeth chain, across
3 Buzzards Bay, up to Manomet, and across two
4 thirds of Cape Cod Bay. This is an
5 architectural travesty, totally out of scale
6 with the Cape and Islands. I understand that
7 any number of historical sites in the area
8 could stop this on this ground alone.

9 Lastly, the history: This is the
10 most historic marine place in the country.
11 There were Vikings here in 1100 AD. The
12 Pilgrims landed in Provincetown. The Dennis
13 Mariner sailed the entire globe. The whaling
14 trade of New Bedford and Nantucket provided
15 seed money for the textile mills in Lowell
16 and, it might be argued, the American
17 Industrial Revolution. That is a project
18 worth talking about. Cape Wind is hot air.

19 MR. MOORE: No. 26? No. 27?

20 MR. SCUDDER: Good evening. My
21 name's David Scudder, vice-president of the
22 Hy-Line Cruises. Hy-Line Cruises is opposed
23 to the Cape Wind project in its present
24

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1 location because of navigational hazards and
2 public-safety concerns associated with the
3 proximity of the project to pre-existing ferry
4 routes, endangering the public safety of our
5 passengers and others traveling on the waters
6 of Nantucket Sound.

8 Hy-Line does recognize the need for
9 the development of alternative energy, and it
10 must be a priority for the country. But we
11 also believe that the public safety of the
12 people traveling on the waterways of the sound
13 is as important. Hy-Line joined the Steamship
14 Authority of the two major ferry operators
15 providing transportation services on Nantucket
16 Sound to the people of Cape Cod, Nantucket,
17 and Martha's Vineyard.

18 Hy-Line and the Authority carry
19 about 3 million passengers on its waters
20 annually. Hy-Line uniquely has three ferry
21 routes, which form a triangle that run between
22 Hyannis and Nantucket, Hyannis and Martha's
23 Vineyard, and Martha's Vineyard and Nantucket.
24 All of these routes pass at times within three

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1 Further complicating matters is the
2 conclusion by a British study that confirms
3 there may be impact on radar within 1.5
4 nautical miles of turbines, producing spurious
5 returns on displays, potentially masking
6 targets.

8 All of these factors add up to an
9 increased risk of a serious marine incident
10 and constitutes irresponsible public policy
11 that will endanger the public safety of people
12 traveling on the waters of Nantucket Sound.

13 As the Minerals Management Service
14 and the Federal Government considers the
15 formulation and development of responsible
16 public policy on this issue, Hy-Line asks that
17 you please, please find a more appropriate
18 place for this wind farm. Thank you.

19 MR. MOORE: Would 28, 29, and 30
20 please come up to the platform.

21 MR. LAMSON: My name is Wayne
22 Lamson, and I am the general manager of the
23 Steamship Authority. I share the same
24 concerns that David just raised, so I won't

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1 quarters of a mile of the proposed wind farm.

3 We have consistently and adamantly
4 been opposed to the project at its present
5 location since its inception because of our
6 concern about public safety caused by
7 potential radar interference, the proximity of
8 the project to ferry routes, and the
9 compression of traffic. Navigating Nantucket
10 Sound in all kinds of weather and traffic
11 conditions is challenging enough without the
12 introduction of these massive structures,
13 which will further restrict and compound
14 navigation problems on our pre-existing ferry
15 routes. Recreational vessels with
16 inexperienced operators and unsophisticated
17 navigational equipment will necessarily be
18 forced into ferry lanes during foggy and
19 inclement weather to avoid collision with
20 these huge structures. This causes traffic
21 compression. It puts everybody in the same
22 area at the same time. This should be a major
23 impact that you guys should consider, and it
24 is courting a maritime disaster.

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1 repeat them now.

3 The Steamship Authority operates
4 over 7,000 trips per year between Hyannis and
5 Nantucket, including 2400 trips with our
6 34-knot high-speed passenger ferry. During
7 the summer months the Steamship Authority and
8 Hy-Line cruises makes 46 scheduled crossings
9 per day between Hyannis and Nantucket. Your
10 Draft Environmental Impact Statement failed to
11 address the reported effects of offshore wind
12 farms on marine radar systems. An independent
13 study for the British Coast Guard in 2004
14 concluded in part that radar interference was
15 detected starting in a range of about 1.5
16 nautical miles from the wind turbine at the
17 North Hoyle wind farm off the coast of Wales.

18 If the Authority is forced to move
19 its ferry route further to the east, it is
20 estimated that we will consume an additional
21 300,000 gallons of fuel oil per year.

22 In addition, your review did not
23 fully address the potential impact that these
24 structures will have on the formation and the

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1 flow of ice within the sound. These issues
2 were raised with you nearly two years ago,
3 when you were seeking comments relative to the
4 scoping of an Environmental Impact Statement
5 for this project, the first of its kind in
6 U.S. waters.

7 We hope and trust that your Final
8 Environmental Impact Statement will adequately
9 address these important safety and
10 navigational issues, that you will consult
11 with the U.S. Coast Guard regarding our
12 concerns, and that all possible mitigating
13 measures will be taken to reduce any and all
14 adverse impacts that this project will have on
15 the essential services that we provide to the
16 Islands. Thank you.

17 MR. MOORE: Thank you very much.
18 29, 30, 31, and 32.

19 MS. FORNARI: My name is C.L.
20 Fornari. I live in Sandwich, Massachusetts.
21 When I moved to the Cape about 15 years ago, I
22 had been living in the beautiful pastoral land
23 of New York's Hudson Valley, and then in the

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1 MR. MONTESE: Good evening. For
2 the record, my name is Gino Montesi. I live
3 in Mashpee. And I just -- I have a prepared
4 statement, but I threw it away based on
5 testimony that I heard here.

6 I just have a question: My God,
7 did you people approve that horrible project
8 in West Virginia, that?

9 MR. CLUCK: No, that's another
10 Federal agency.

11 MR. MONTESE: May I say, my heart
12 goes out to the good people of West Virginia
13 who suffered to come here this evening. But I
14 suggest that their argument is with the
15 Federal Government, you folks, and certainly
16 not the people of Cape Cod.

17 When I look at the project, I'm
18 against the project for a couple of reasons.
19 No. 1, technology is going up exponentially.
20 You can be a first-year applied science
21 student in a major university, and by the time
22 you graduate everything you learned in your
23 first year is obsolete. Should we now cast in

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1 suburban area outside of Boston. And I was at
2 a party shortly after moving here. A woman
3 said to me, "So, how do you like living on
4 Cape Cod?" And I said, "Well, it's taking a
5 little bit of getting used to, because Cape
6 Cod is so developed that it looks like that
7 suburban area that I was just living in, but
8 we don't have the advantages of being close to
9 a city, and yet we don't have the rural
10 pastoral landscape on the Cape any more,
11 either." She said, "I know what you mean."
12 She said, "Cape Cod has gotten very developed.
13 But you have to connect with the ocean." The
14 ocean is the only place that is not developed
15 that Cape Cod has left. And I believe that we
16 have a responsibility to protect it.

17 Put windmills over our town halls.
18 Put windmills over our schools. Put windmills
19 next to every business that wants them. Put
20 them in my back yard. But please, do not
21 allow them to build a power plant in the only
22 undeveloped place that Cape Cod has left.

23 MR. MOORE: No. 29, No. 30.

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1 stone, or should I say 430-foot monoliths,
2 yesterday's technology for all to see? Five,
3 ten, fifteen years from now, permits that are
4 being applied for as I speak that harness the
5 tides and are better and less obtrusive -- we
6 could be better off. Could we look back five
7 or ten or fifteen years from now and see these
8 towers out there as testaments to obsolete
9 technology? Who then will take them down, at
10 whose expense?

11 And my purpose, I guess, is that I
12 really feel in my heart, growing up around
13 these waters, as a young boy in Cuttyhunk,
14 with my adult life in Martha's Vineyard, I'll
15 say I know the sound pretty good. I want to
16 leave the sound to my children exactly the way
17 I found it, in its pristine condition. That
18 is the only effect that there should be at the
19 sound, Martha's Vineyard, Nantucket. And the
20 folks will tell you when you move here that
21 Martha's Vineyard, Nantucket, and Cape Cod
22 will all agree the Vineyard Sound is not for
23 sale -- not to a private developer, not to us,

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1 not to anybody. It's ours to leave to
2 generations exactly as we found it. Thank
3 you.

4 MR. MOORE: No. 31, 32, 33, 34, 35,
5 and 36. So 31.

6 MR. LOWELL: I want to address some
7 of the technical risks concerned with this
8 project. My name is Francis Lowell. I'm an
9 electrical engineer, familiar with the power
10 industry. I'm a resident of Falmouth, and I
11 would like, as I said, to address technical
12 risks.

13 The DEIS provided only limited
14 analysis of the power industry benefits and
15 risks of the proposed Cape Wind project. The
16 analysis provides no technical information on
17 the technical risks and challenges of this
18 first U.S. offshore wind project, nor was any
19 documentation given on the operational
20 problems that have been encountered by other,
21 older European offshore wind projects off the
22 Irish, English, and Danish coasts or the
23 mitigation measures they employed to reduce
24

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1 2004. The Cape Wind project would be this
2 turbine's first application in the U.S. and
3 one of its earliest applications worldwide and
4 on a commercial scale. The EIS should explore
5 the uncertainty about these turbines, their
6 durability, and operation.

7 Given documented problems with the
8 Nysted and Horns Rev installations, limited
9 offshore history, limited experience with the
10 plant turbine design, and the much larger
11 scale of the Cape Wind project, the DEIS
12 should apply more conservative, quote,
13 "worst-case," unquote, assumptions in
14 evaluating potential environmental impacts as
15 well as the potential costs. Nantucket Sound
16 should not be an experiment. Thank you.

17 MR. MOORE: Thank you very much.
18 No. 32.

19 MR. REILLY: Thank you very much.
20 As the Minerals Management Service considers
21 the formulation of responsible, appropriate,
22 and precedent-setting public policy governing
23 the development of wind power in our state and
24

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1 their impacts.

2 Cape Wind would be the first
3 offshore wind farm project in the United
4 States and the world's largest offshore wind
5 project. Only limited data exists on offshore
6 wind construction and operation from a few
7 European offshore wind projects.

8 Surprisingly, the document contains no
9 discussion of any operating and safety issues
10 experienced by these European offshore
11 projects or their mitigation strategies. For
12 example, offshore transformer failures
13 occurred at the Nysted offshore wind project
14 during June 2007 and on the Horns Rev offshore
15 wind project in June 2004. In the case of the
16 four-year-old Nysted installation, the entire
17 project was off line for months due to serious
18 failure of the electric service platform.

19 In addition, the Cape Wind project
20 plans to utilize the GE 3.6-megawatt turbine
21 design that is in use in only one operating
22 offshore wind farm, the 25-megawatt Arklow
23 project in the Irish sea, that came on line in
24

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1 the nation, as a private citizen I ask you and
2 all the people to consider the wisdom of the
3 words of President Kennedy when he said: If
4 we act sensibly now, while the opportunity
5 remains, we shall have preserved for America
6 and for our people a priceless heritage, to be
7 enjoyed many times over, not only by this
8 generation, but by those which follow.

9 For the record, my name is Martin
10 T. Reilly, and I support the development of
11 wind power, in a different location. I am
12 here tonight representing Blue H USA, a
13 wind-power development company, who today
14 formally announced their filing of a
15 nomination for lease with the Federal
16 Government Minerals Management Service for the
17 first offshore deepwater wind-to-energy
18 project in the history of Massachusetts, to be
19 located at a site depicted in that chart in
20 front to the left, which is 23 miles off the
21 coast of Martha's Vineyard and 45 miles off
22 the coast of New Bedford.

23 As the MMS public hearings commence
24

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1 this evening, we want the Federal Government
2 Minerals Management Service to know and our
3 state government to know and all the people in
4 the Commonwealth to know that alternative
5 deepwater technology now exists and the
6 alternative deepwater sites are viable and
7 available, and they can generate wind
8 electricity at a more cost-effective price for
9 the people than existing offshore
10 shallow-water technologies, with maximum
11 benefits and a minimum amount of negatives, in
12 a manner that can be a win-win-win for
13 everyone.

14 Blue H USA believes that the
15 project we announced today can provide part of
16 the solution to our wind energy needs by
17 utilizing our state-of-the-art, patented
18 deepwater technology in a responsible way that
19 will be a win-win-win for all parties, Cape
20 Cod, the Islands of Martha's Vineyard, and
21 Nantucket, the Commonwealth of Massachusetts,
22 and our country.

23 Specifically, the Blue H project
24

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1 consists of the following:

2 The site nomination of lease:
3 Today Blue H USA filed for a nomination of
4 lease with the Federal Government, MMS, which
5 is the important first step in going forward
6 with our project. Our site is located, as I
7 said, 23 miles off the coast of Martha's
8 Vineyard and 45 miles off the coast of New
9 Bedford, in deep water of 51 meters, which is
10 approximately 160 feet.

11 The wind velocity at the site:
12 Blue H USA spent the last two years in
13 Massachusetts looking for the most appropriate
14 offshore deep water site for locating the
15 proposed mass wind project. In making the
16 siting decision, they were guided by reports
17 compiled by the Federal Government Department
18 of Energy, National Renewable Energy
19 Laboratory in Golden, Colorado, which has
20 stated that deepwater locations are the best
21 and most appropriate places to generate
22 offshore wind power, because the wind
23 velocities are generally more consistent, less
24

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1 turbulent, much higher, stronger, and reliable
2 than --

3 MR. MOORE: You need to finish your
4 comment. One more sentence, please.

5 MR. REILLY: Last thing, we hope
6 you consider this deep water alternative that
7 can generate the power at a better price and
8 can allow us to preserve the esthetic beauty
9 of our ocean sanctuaries, and it can be done
10 in a way that would truly be in the best
11 interests of all the people. So thank you for
12 your consideration. We'll submit more.

13 MR. MOORE: No. 33?

14 MR. FRASER: Good evening. My name
15 is Michael Travers Fraser. I basically am a
16 family business as a field tech, basically
17 doing all types of coastal erosion. And I am
18 a field tech; I am not a suit. I am out there
19 in the rough pit. I have done my
20 apprenticeship on Nantucket, and I've worked
21 on many homes all over the Cape, including
22 Martha's Vineyard. So when I say I'm a field
23 tech, I'm in it. I get plans and designs from
24

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1 different people.

2 And what I find is, what I find on
3 plans are totally different than what I'm
4 working with. There are the elements of the
5 ocean. And the sound is mysterious,
6 beautiful. It's very dangerous. The wind out
7 there is extraordinarily crazy at times. No
8 offense to the Steamship Authority, but I've
9 been on the Ungatina when it's been on its
10 side. I've been on the HY-LINER when windows
11 have blown out and water has gone all the way
12 through to the back of the boat. Thank God we
13 have great captains and good shipmates to get
14 those people there safely.

15 I have flown to Nantucket in the
16 thick of it. That's why they call it the gray
17 lady. And I'm telling you, folks, I've had to
18 pull pine cones out of my shorts, landing on
19 Nantucket.

20 Now, my wife told me if I came here
21 to speak tonight that somebody from the State
22 will probably give me an audit by tomorrow
23 morning. The bottom line is, you people have
24

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1 a policy. You have to keep the wheels of
2 industry going ahead. And I understand that.
3 That's science. A lot of people brought a lot
4 of science here tonight, and as my grandfather
5 used to say, and Gino hears me on the radio,
6 if you have the science, you don't need the
7 BS.

8
9 The problem is, the area that you
10 first want to put this in is a bad area all
11 around -- fishing, aircraft, line of sight
12 between our radar stations. It's an no-win
13 scenario. But it's probably going to go on.

14 So my look and my views on this is
15 Tuckernuck. That is the best area for you to
16 put this on. Yes, it's going to cost you a
17 little more money, but it's the safest. It
18 doesn't have the erosion that the rest of the
19 Cape has. You're not going to impact most of
20 the islands. It will build up more off of
21 Smith's Point. You can't put it on Sankaty
22 Head, because I was there when (inaudible)
23 fell into the ocean. Look at Chatham. You
24 want to put it over there and put these

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1 I think that wind farms are great
2 on already blighted areas or disturbed areas.
3 But when it comes to one of the world's finest
4 surviving examples of a historic whaling port,
5 I think it's just the wrong place to install
6 these wind turbines.

7 Beyond that, I think that the
8 National Environmental Policy Act is Federal
9 law that you have to observe, and that I think
10 ignoring the ferry passenger -- ignoring the
11 safety aspects where the ferry passengers are
12 concerned -- and I believe that there are
13 approximately 3 million transported going back
14 in the sound every year during the summer -- I
15 think it's outrageous to consider the
16 Steamship Authority, Hy-Line Cruises,
17 Barnstable Airport officials might be NIMBYs
18 and they don't know what they're talking
19 about. These are professional navigators.
20 They're in charge of the safety of the air
21 passengers. And when they speak, I don't see
22 how you can skip past any of the issues --
23 including those of the fishermen, as they've
24

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1 pilings in? You are going to change the water
2 current over there like you wouldn't believe.
3 It's going to impact everybody over there.

4 I thank you folks. I understand
5 that we need alternative energy. But really,
6 let's think about this, let's put it in the
7 right place. Tuckernuck is your area to put
8 it in. If not, we can put it -- you know, we
9 can see a dime from space, but we can't have
10 floating windmills? Come on, folks. Let's
11 think about this. Thank you very much.

12 MR. MOORE: Thank you very much.
13 Yes, No. 34?

14 MS. DURKIN: My name is Barbara
15 Durkin. I'm from Northborough, which is in
16 central Massachusetts. I'm a tourist on the
17 Cape and Islands. And I've driven an hour and
18 a half to be here tonight to let you know how
19 important the views are here to me. And they
20 are the reason that I come here, to get away
21 from city life and to appreciate the natural
22 environment that I don't understand why we
23 would ever consider industrializing.
24

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1 presented, where it comes to public safety
2 concerns.

3 It is just -- it's reckless
4 endangerment. I can't imagine it would be
5 anything other than that. If they say it's
6 not safe to put these turbines there and you
7 ignore then, then what? What if there's a
8 horrific accident? This is a situation that's
9 never happened where the Big Dig is concerned.
10 I don't believe that safety concerns were
11 expressed relative to the Big Dig before that
12 was constructed. You have a Big Dig here on
13 acid, so to speak.

14 In terms of the avian life: This
15 is also an endangered species habitat, and you
16 have more Federal law to observe. It is
17 illegal to kill certain types of birds. We
18 have insufficient data, as you have indicated
19 in the DEIS, regarding birds that are
20 frequenting the Nantucket Sound area and
21 flying across the sound. You have Mass.
22 Audubon, who has testified that up to 6,600
23 birds per year will be killed by Cape Wind's
24

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1 towers if this is permitted. So I don't
2 understand how you can reconcile the killing
3 of endangered species.

4 And adaptive management is an
5 overused term. It's thrown around as if there
6 is an answer, mitigation is available and can
7 stop the carnage. But that's not happening in
8 the front page of the San Francisco Chronicle.

9 MR. MOORE: I'm going to ask you to
10 finish, please.

11 MS. DURKIN: In the front pages of
12 the San Francisco Chronicle, adaptive
13 management is not working. And I ask you to
14 look at my other comments which I will be
15 submitting in writing. Thank you.

16 MR. MOORE: Thank you very much.

17 MS. COX: Good evening. For the
18 record, my name is Eliza Cox, and I'm an
19 attorney with the firm of Nutter, McClennen &
20 Fish. I'm also a resident of Barnstable
21 Village.

22 My firm serves as special counsel
23 to the Alliance to Protect Nantucket Sound,
24

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1 Cod Commission jurisdiction of this project at
2 the DRI. In this regard, we are submitting a
3 copy of the motion to intervene, as well as
4 the memorandum in support thereof, that was
5 filed with the EFSB by the Alliance to Protect
6 Nantucket Sound, which has been granted by the
7 EFSB.

8 More importantly, the attempt by
9 Cape Wind to seek an override by the EFSB of
10 the Towns of Barnstable and Yarmouth is
11 unprecedented and we believe unlawful. We
12 have also submitted to you a memorandum dated
13 September 6, 2007, which outlines that Cape
14 Wind does not have control of title to the
15 land located between the low- and high-water
16 marks adjacent to New Hampshire Avenue in the
17 Town of Yarmouth, where the transmission line
18 makes landfall. We believe that this
19 outstanding title is significant.

20 Finally, we have enclosed a copy of
21 the complaint filed by the Town of Barnstable
22 and ten residents of Massachusetts, including
23 the Alliance, appealing the issuance of a
24

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1 for the purposes of representation before the
2 Cape Cod Commission and the Towns of
3 Barnstable and Yarmouth. We are submitting to
4 you this evening a memorandum, together with
5 several attachments. And I would like to walk
6 through the key components of that memorandum
7 right now.

8 First, we have provided additional
9 background information to clarify and correct
10 the record regarding the statutory and
11 regulatory authority of the Cape Cod
12 Commission with reference to this project. In
13 particular, we are correcting Section 1.2.3.3
14 of the DEIS, which misstates the regulatory
15 review authority of the Cape Cod Commission
16 and the genesis of its broad powers to review
17 this project as a development of regional
18 impact.

19 In addition, we respectfully
20 disagree with the characterization contained
21 in Section 1.2.3.3 of the DEIS regarding the
22 ability of the Energy Facilities Siting Board
23 to either preempt, exempt, or override Cape
24

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1 Final Environmental Impact Report by the
2 Secretary of the Office of Energy and
3 Environmental Affairs of the Commonwealth.
4 This matter is presently pending before the
5 Barnstable Superior Court.

6 In sum, we believe that the DEIS
7 inaccurately sets forth and describes the Cape
8 Cod Commission's regulatory review process,
9 and Cape Wind must obtain DRI approval from
10 the Cape Cod Commission in order to proceed
11 with this project. Thank you very much.

12 MR. MOORE: Thank you. No. 37, 36.

13 MS. Ingraham: My name is Nan
14 Ingraham, and I live in West Barnstable. For
15 too many years we as a nation have used and
16 used up the Earth's resources, making
17 potentially permanent damage to the quality of
18 life for generations to come. Change is
19 sometimes hard for people to accept, but
20 change will happen whether we help direct it
21 or become victim to it. I have a
22 five-year-old child, and I pray we can stem
23 the tide of our pollution for his and his
24

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1 children's sake. It is up to us to make the
2 right decision to help curb our carbon
3 footprint that each and every one of us
4 contributes to. I fear what will happen if we
5 don't start.

7 I myself, as many of you in this
8 room do, recycle, use, and eat organic
9 products, reuse items normally thrown out, and
10 I reduce waste where I can. I try to do my
11 part.

12 The wind farm project is the right
13 thing to do and in the right place. Cape Wind
14 has answered all the questions, and it has
15 done so repeatedly. The red tape being thrown
16 at this has now become wasteful and a
17 liability. The facts are being distorted and
18 lied about by the opponents of this project.
19 The truth is that this is an environmentally
20 sound project for all the right reasons.
21 Let's not waste any more time.

22 This is an emotional topic. It
23 makes me emotional. My son's future makes me
24 emotional. Being graceful and dignified is my

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1 want to get that straight. Okay?

3 I consider the sound to be the
4 national bank of the Cape and Islands, secured
5 and protected by the citizens, for the
6 citizens. Unfortunately, that's not the case
7 any more. Now we have to go through you guys.

8 The sound to me is the pearl of the
9 Eastern Seaboard, life-sustaining, perfection
10 in motion, home of the Nantucket sleigh ride
11 and land of the Wampanoags, providing for and
12 sustaining life for Cape Cod and Islanders
13 summer after summer, year after year,
14 generation after generation, like clockwork.
15 Our economy depends on it. So let us not
16 forget who we are. We are -- for we are
17 Americans. We can do anything. We can
18 achieve energy independence if we truly set
19 our minds and resources towards that goal. It
20 won't be long before big oil is forced out of
21 the White House, so we can vigorously restart
22 and resume our energy programs. So let us not
23 be so shortsighted on this vital issue.

24 We can save our economically sound

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1 way of giving everyone their right to their
2 voice. Thank you.

4 MR. MOORE: 37 and 38.

5 MR. MORIARTY: Good evening,
6 everyone. My name is Dave Moriarty. I'm a
7 lifelong resident of Falmouth, Massachusetts.
8 I'm here to try to save my way of life. I
9 appreciate you folks giving me a chance to let
10 me share my views with you tonight.

11 It is in my humble opinion that I
12 state my adamant opposition to this
13 irreversible historical, cultural, and
14 economic danger that we are causing to all our
15 friends and family that depend on the vital
16 and irreplaceable tourist dollars that come to
17 all our communities. Visitors have been
18 coming here to the Cape and Islands year after
19 year for over thousands of years. They don't
20 come here to see the wind turbines. No,
21 they're not coming here to see that. They're
22 coming here to see our pristine, unique
23 national treasure, which we call our home.
24 This is our home we're talking about. I just

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1 economy now and simultaneously move our
2 country closer to cleaner energy independence.
3 So please, I beg of the powers that be, please
4 hear our plea. Please hear us now. The risks
5 are much too high, for such a small return.
6 Our way of life depends on your critical
7 decision. Thank you very much.

9 MR. MOORE: Thank you. 37? Of 38?
10 39? Will 40 please come up to this one. 41
11 over here. 42, 43, and 44.

12 MS. YOUNG: Good evening. My name
13 is Sharon Young. I am both a resident of
14 Sagamore Beach on Cape Cod, and I am also the
15 marine issues field director for the Humane
16 Society of the United States. My comments
17 tonight focus largely on the potential impacts
18 of the project on marine mammals.

19 In repeated earlier comments on
20 DEIS's, we have identified key data sources
21 regarding the presence of marine mammals of
22 Nantucket Sound that were omitted. They are
23 still not included in this DEIS. Among them
24 are the database maintained by the Cape Cod

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1 Marine Mammal Stranding Network, peer-reviewed
2 (inaudible) satellite telemetry studies and
3 the National Marine Fisheries (inaudible) data
4 unless all relevant data are consulted and the
5 DEIS has characterized its marine mammal
6 distribution and thereby underestimates
7 potential risks.

8 We also note that some of the
9 impact assessments rely on outdated
10 literature. For example, statements on
11 migratory routes of whales are based on the
12 (inaudible) paper published in 1990. Since
13 that time literature, some of which I myself
14 have been involved in publishing, shows these
15 routes are not biological. Harbor porpoises,
16 which were adversely affected during
17 construction of projects in Denmark, are now
18 in strategic stock, although the DEIS claims
19 that they are nonstrategic. This heightened
20 conservation concern requires greater
21 protection measures and (inaudible) mitigation
22 measures.

23 In discussing risk-free vessels,
24

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1 that the cumulative impacts must assess
2 impacts that occur further removed in space
3 than are considered here. The project should
4 not be considered until there is an
5 overarching plan for development of the outer
6 continental shelf, something we have called
7 for repeatedly. It is only then that a
8 project should be permitted to take place.

9 Ad hoc permitting must stop. We
10 will support the no-action alternative until
11 such a policy is in place and this project can
12 be permitted under it. We will be submitting
13 additional, quite detailed comments at a later
14 time. Thank you.

15 MS. POWERS: I am Martha Powers. I
16 live in West Yarmouth, otherwise known as
17 ground zero. It's important that you know
18 that we live in a place known the world over
19 as a travel destination of world-class natural
20 beauty that consists of a stunning array of
21 places that can take your breath away. This
22 is no ordinary place, and this is no ordinary
23 beauty.
24

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1 the DEIS variously estimates project-related
2 vessels arriving will travel at 10 knots or 14
3 knots or 21 knots. It does not acknowledge
4 the National Fisheries Service proposed speed
5 limits protecting white whales that would
6 mandate a 10-knot speed limit. While it
7 asserts that whales dive to avoid individuals
8 (inaudible), in fact, habituation largely
9 accounts for the fact that vessel collisions
10 remains one of the largest threats to
11 endangered whales. The risk, again, is
12 mischaracterized because of this.

13 These are but a few of the
14 inadequacies. Before a precedent-setting
15 project of this scale can be undertaken, it is
16 vital that all available current information
17 be used for undertaking risk assessment and
18 designing mitigation measures. The DEIS has
19 failed in this regard. In this instance the
20 weight of the paper does not equate to the
21 weight of evidence.

22 Cumulative impacts are also not
23 addressed adequately. The CEQ has clarified
24

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1 You labeled the impact on visual
2 resources, what we call the view, as moderate.
3 Even a quick glance to the many boaters in
4 your report shows the impact to be disastrous,
5 and these views are there for anyone and
6 everyone, regardless of income.

7 A view is not just what you see
8 while looking out at something. It's a
9 two-way experience. It's what happens to us
10 internally when drinking in a vision of such
11 natural beauty. We are taken out of our daily
12 worries and transported somewhere else,
13 somewhere inside our souls that yearns for
14 this. Humans need this. We need this
15 connection to nature. Many of us worked very
16 hard to get here just for that, and continue
17 to work hard to stay here.

18 Nantucket Sound, the heart of the
19 Cape and Islands, offers us magic and wonder
20 on a sparkling sunny day or a moonlit night or
21 during a storm, and it needs to be preserved
22 for all generations to follow -- and not just
23 generations of humans, but the abundant
24

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1 wildlife that shares the place with us. As
 2 your draft report states, this project of 130
 3 turbines would go in the middle of the
 4 Atlantic flyway, and we are one of only a
 5 handful of major stopovers in the Northern
 6 Hemisphere. Millions of birds fly through
 7 here, and some of them are endangered species.
 8 People come from all over to witness this
 9 miracle of migration. Estimates of bird kill
 10 go as high as 6,000 and more a year. These
 11 millions of birds migrate at night, but the
 12 studies were done during the day.

13 If you have ever witnessed the
 14 killing of just one bird, it is horrible. To
 15 kill thousands of birds is immoral. To kill
 16 endangered species is criminal. The impact on
 17 birds and bats should be labeled disastrous.

18 This wind power plan is not clean
 19 energy. It would be bloody. There is also no
 20 evidence at all it would have any impact on
 21 global warming or the air quality on Cape Cod.
 22 There are a great many things we can do to
 23 stop global warming, as most of us are aware.
 24

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1 is Sarah Cote. I'd like to thank Minerals
 2 Management Service for this long and arduous
 3 process and thank you for your patience.

4 I've been a resident of Cape Cod
 5 for 22 years, and I am here today to speak
 6 strongly on behalf of the Cape Wind project.
 7 I've been volunteering for Clean Power Now
 8 since this past July and watching the project
 9 since the beginning, and I began volunteering
 10 for them due to my sheer frustration at the
 11 opposition that this project is facing.

12 Growing up on the Cape has given me
 13 a deep appreciation for the environment, as
 14 I'm sure you all. Throughout middle school I
 15 was taught, like the rest of the community's
 16 children, the importance of preserving and
 17 protecting our planet. When I reached high
 18 school and the project was first proposed, I
 19 never encountered a teacher who was not in
 20 full support of this project. Two of my
 21 teachers even gave their students extra credit
 22 for writing to local officials urging them to
 23 support Cape Wind.
 24

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1 We have a long history of crimes
 2 against nature in this country, many of them
 3 permitted and even perpetrated by government
 4 agencies. We know better now. We do not have
 5 the right to interfere with the migration of
 6 millions of beautiful birds nor to destroy
 7 this habitat or stunning beauty. It is
 8 generally agreed that the success of this
 9 relatively new technology depends on its
 10 siting and wind turbines should never be sited
 11 in the middle of major migration moves or
 12 close to habitats of endangered species. I
 13 expect this to be an obvious part of the
 14 coastal zoning regulations that you will
 15 eventually produce.

16 MR. MOORE: It's about time.

17 MS. POWERS: This power plant of
 18 Cape Wind, proposed for the middle of the
 19 Atlantic flyway in the heart of one of the
 20 most beautiful and precious places there is,
 21 is destined to fail, and it's time to stop it
 22 now.
 23

24 MS. COTE: Good evening. My name

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1 Unfortunately, this was seven years
 2 ago. My question, and one that plagues both
 3 myself and all citizens who are for this
 4 project on a daily basis, is this: Why, when
 5 we have the scientific report in front of us
 6 confirming that the benefits of Cape Wind
 7 drastically outweigh any possible negative
 8 consequences, are we even still debating the
 9 point?
 10

11 The DEIS shows that many aspects of
 12 the project would have either negligible or
 13 minor impacts. I cannot understand why, when
 14 presented with such incontrovertible
 15 scientific evidence, the opposition continues
 16 to argue against this project, using points
 17 that have been laid to rest.

18 If the Alliance to Protect
 19 Nantucket Sound is truly worried about
 20 protecting this world and our environment,
 21 they should take their time and energy
 22 elsewhere, perhaps by protesting the
 23 coal-burning plant in Sandwich that I'm forced
 24 to look at every day or perhaps by protesting

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1 or convincing the ferries that run every day
2 to the Islands to stop dumping their untreated
3 waste into our ocean. It baffles me that
4 anyone who cares about this project would have
5 anything to say about it other than what a
6 great idea.

7
8 Luckily, the numbers are on our
9 side, too. Recent polling shows that local
10 support has climbed to 74 percent, and
11 unfortunately I think the remaining 26 percent
12 is in the room with me now. Why, when science
13 is behind us and local support is behind us,
14 are we allowing one minority opposition group
15 to have any say whatsoever into whether or not
16 we get to reap the plethora of benefits this
17 project may give us?

18 I have made a habit of checking the
19 wind conditions on capewind.org to see how
20 much power the wind farm would be producing if
21 it were on line, and it literally breaks my
22 heart to see the potential energy we would be
23 getting from a clean energy source going to
24 waste every day.

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1 The time has come for sacrifice
2 from us all. No one in this room can debate
3 my love for the Cape or my love for staring
4 out in the ocean. But now is the time for
5 this technology, and this is the place, along
6 with anywhere else we can put it. Thank you.

7 MR. MOORE: We'll take two more
8 speakers before our next break. What number
9 are you? 42. Please go ahead.

10 MS. BLUM: Hi. My name is Michelle
11 Blum. I'm a native Cape Codder. I was born
12 at Cape Cod Hospital. I was raised in
13 Yarmouth. I've lived the last 21 years in
14 Mashpee.

15 Never in my wildest dreams did I
16 imagine the way the Cape would grow as it did
17 and be developed on private property as it
18 has. But never in my wildest imagination did
19 I ever think the Federal Government would let
20 a private contractor build a power plant out
21 in Nantucket Sound where, when I was a little
22 girl, sitting on the beach, looking out,
23 Seagull Beach, Smugglers Beach, how beautiful

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1 the scenery was, that maybe one day I might be
2 out there in a sailboat or a power boat -- I
3 never in my wildest imagination could have
4 imagined windmills out there.

5 So I applaud everybody for being
6 here tonight. I am not a scientist, and I am
7 not basing it on that. I am basing it on
8 aesthetics and my growing up on this beautiful
9 Cape Cod, which I would love it to stay that
10 way for many, many generations to come.

11 MR. MOORE: Thank you. No. 43.

12 MS. ASMUTIS-SILVIA: My name is
13 Regina Asmutis-Silvia. I'm a marine biologist
14 for the Whale and Dolphin Conservation
15 Society, and my comments are going to be
16 largely on marine mammal issues. We think
17 that the impacts for marine mammals continue
18 to be inadequately addressed in the DEIS and
19 that there's a continued lack of adequate
20 mitigation measures proposed despite repeated
21 requests that have been made in previous
22 comments that were submitted over the years.
23 As I said, I'm going to focus on marine

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1 mammals tonight. However, the concerns that I
2 have with marine mammals also raise concerns
3 with other data that are used throughout the
4 document.

5 The DEIS acknowledges that the
6 vessel strikes are a significant threat to
7 large whales and correctly uses Laist, et al.,
8 2001, as the source indicating strike
9 fatalities decrease at speed under 14 knots.

10 MR. MOORE: A little slower.

11 MS. ASMUTIS-SILVIA: However, the
12 DEIS concludes that the actions are minor. We
13 disagree with that science. They do cite that
14 they use vessels at a maximum speed of 21
15 knots or that they will be using them. And
16 they also say that whales will just move away
17 from vessels. Yet within the DEIS they come
18 to take that very statement by citing
19 no (inaudible) -- basically, that the DEIS
20 contradicts itself within the document, saying
21 that vessels are going to move away or the
22 whales are going to move away from vessels,
23 but they cite no evidence at all they're going

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1 to do that.

2 The DEIS also states and has issues
3 with the noise. The noise science is
4 questionable in there. They say that the
5 piledriving won't exceed 170 decibels at 500
6 meters from the source. That implies that the
7 noise that is going to be generated is going
8 to be below the (inaudible), which is what's
9 used as preventing injury or harassment to
10 marine mammals. Yet the studies at other
11 sites in the UK demonstrate that the
12 underwater sounds for piledriving actually
13 exceeded that. Some of those sounds actually
14 had the potential to cause injury within 100
15 meters.

16 The DEIS does not address the
17 possibility that the noise generated from
18 piledriving in this project could exceed the
19 108 decibels at 500 meters from the source.
20 It doesn't consider any mitigation measures
21 either, such as bubble curtains or fiber
22 piling. Neither does it consider any
23 mitigation method for vessel strikes.
24

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1 Additionally, masking marine
2 mammals vocalizations can occur at lower
3 levels than are indicated in the document, at
4 lower than typical piledriving, and that could
5 result in masking sounds reaching all
6 (inaudible) at sites for gray harbor seals on
7 Muskeget, Monomoy, and Tuckernuck Islands.

8 We think that the DEIS continues to
9 ignore the potential for population-wide
10 impacts. Exceeding either the Level A or
11 Level B harassment levels designated by the
12 Marine Mammal Protection Act is still in
13 violation of the Act. It doesn't indicate,
14 though, that the violation could actually be
15 very detrimental to the population level by
16 impacting behavior such as feeding and --

17 MR. MOORE: Stop. It's about time.

18 MS. ASMUTIS-SILVIA: Thank you.

19 We'll be submitting written comments.

20 MR. MOORE: We've exceeded our four
21 hours of hearing. We need to take a 15-minute
22 break.
23

24 (Recess taken.)

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1 MR. MOORE: I'd like to ask

2 speakers Nos. 44, 45, 46, 47, and 48 to please
3 come up so that you're near the microphones.
4 We'll start off with Speaker No. 44. Please
5 introduce yourself and begin.

6 MR. FERRO: My name is Mike Ferro.
7 If you pretend that I'm a windmill, at this
8 height, this is the size of the houses that
9 are on the Cape. It's a huge discrepancy. Of
10 course, if you put this 3300 feet away, this
11 is what you receive at 5 miles, when you are
12 standing on the coast, looking at the
13 windmills. That's all I'm going to say about
14 that.
15

16 I want to congratulate the strip
17 mining gentlemen, the people who come up here
18 to protest, what they have to say, because
19 that really helps us, because this is a
20 private entity that has done all that strip
21 mining. This is a private entity that's
22 taking care of these windmills. The back side
23 of it is that they're not responsible for the
24 result. They're not taking care of those

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1 communities, and those communities are dying
2 based on profit-making entities. I don't want
3 only three or four, another five industries
4 here, be it tourism, fishing, housing,
5 anything that's related to what is the beauty
6 of our Sound, to get wiped out because of the
7 private sector.
8

9 I also want to state that the
10 aspect of 'oy facing -- Monomoy Phase 1, 2,
11 and 3 are proposed out in Nantucket, and the
12 ones on Horseshoe Shoals, it doesn't matter.
13 It's just not a great place. It doesn't make
14 much sense to me to put a tower up
15 400-some-odd feet and in the ocean when there
16 are people around here from the Cape that
17 can't maintain their boats that are in it just
18 for three months out of the year because of
19 what the ocean does to the mechanics of
20 things. I can't imagine something 400 feet in
21 the air being any easier at 130 that will be
22 out there every day of the year. Plus every
23 one of those units has a certain amount of
24 oil. One spill -- you know, what's that

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1 worth? It's not worth having that tower here.

2 I prefer the windmills to be down
3 the median strip of every highway across the
4 state, because there's easy access. They
5 continue to be right there. If it falls,
6 somebody doesn't get to work.

7 Anyway, thank you for your time. I
8 appreciate you coming out here. Take care.
9 Good night.

10 MR. MOORE: What's your number?

11 MR. BAXTER: 45. My name is
12 (inaudible) Baxter. I'm from Centerville.
13 Cape Wind recently abandoned plans to build a
14 diesel power plant across the street from an
15 elementary school in Chelsea. Why? Maybe
16 they just realized it didn't quite fit with
17 the green image they were trying to portray
18 counsel here.

19 Cape Wind stands to makes hundreds
20 of millions of dollars from taxpayers like you
21 and me. They're not going to get rich from
22 generating electricity. They're going to get
23 rich through a billion dollars of state tax
24

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1 credits and another 300 million in Federal tax
2 credits. If they were as concerned about the
3 environment as they would have us believe,
4 then they'd build on the power pipelines I
5 suggested years ago right here in this
6 auditorium.

7 The DEIS states that the mean wind
8 speed of the mid-Cape area is 4 1/2 miles per
9 hour less than Horseshoe Shoals --

10 significantly lower, yes. But they could
11 build 100 green towers on the power lines
12 alone from the Canal to P-town. It would cost
13 less to build, maintenance would be cheaper,
14 equipment would last longer, transmission
15 losses would be lower. The economy of scale
16 and all the above savings would help to make
17 up for the lower wind speed.

18 Perhaps most telling of all is that
19 Cape Wind would have to pay rent or share
20 profits if they built on the grid. It all
21 starts to make sense now, doesn't it?

22 This site is simply not the right
23 choice. Try locating a flashing buoy at night
24

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1 along hundreds and hundreds of flashing
2 lights on towers spread over 24 square miles.
3 The shoals see fog nearly 180 days each year.
4 Radar interference, known as wind turbine
5 clutter, will seriously degrade the operation
6 of the radar systems. This represents a
7 significant hazard to navigation and safety.
8 I quote from research conducted by the
9 University of Oklahoma Radar Research Center
10 on the effects of wind turbines on radar. "It
11 would be extremely difficult to distinguish
12 between the wind turbine clutter in the
13 (inaudible). Multiple turbines would only
14 exacerbate this effect."

15 According to the DEIS, search and
16 rescue by air would be performed only in good
17 visibility, but would not likely occur when
18 the cloud ceiling is low. Well, I'm here to
19 tell you, that's when most problems occur,
20 when it's windy, very windy, visibility is
21 low, the cloud ceiling is low. That's when
22 things happen.

23 A plant like this should be built
24

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1 away from highly traveled navigational zones,
2 such as the latest proposal by Blue H for a
3 facility far south of the Vineyard. In
4 reference to this latest project proposal,
5 Cape Wind said their location provides less
6 environmental impact. Well, if Cape Wind has
7 the quote-unquote "best location" and they
8 build on it, then it's only downhill from
9 here; right?

10 I don't think so. This is not the
11 best site. Relocate it on land or deeper
12 water, out of harm's way. Thank you very
13 much.

14 MR. MOORE: Thank you. What number
15 are you?

16 MR. EGAN: 46. Thank you. Good
17 evening. My name is Greg Egan, from Crosby
18 Yacht Yard in Osterville. I'm also a current
19 board member of the Cape Cod Green Trade
20 Association.

21 I've worked in the maritime
22 industry on Cape Cod for over two decades.
23 The DEIS review of the extreme or dangerous
24

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1 weather conditions in Nantucket Sound is
2 wholly inadequate. I would like to speak this
3 evening very briefly to the specific issue of
4 the danger of turbines in fog.

5 Nantucket Sound is one of the
6 foggiest areas on the Eastern Seaboard. Dense
7 fog can roll in very quickly and is often
8 responsible for recreational mariners becoming
9 disoriented or lost on the Cape's offshore
10 water, including Horseshoe Shoals. The
11 National Oceanographic and Atmospheric
12 Administration National Climate Data Center
13 reports show that over the last three decades
14 there's been an average of 200 days of fog
15 annually on Nantucket Island. Interestingly,
16 in the DEIS MMS reports just 65 days of fog
17 from only one year's selection of data for a
18 weather station located in Hyannis.
19 Conditions on Horseshoe Shoal are likely in
20 between the two recording stations, so it's
21 fair to assume that conditions of very limited
22 or zero visibility exist on Horseshoe Shoal
23 about one third of the time during any given
24

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1 year. This assumption is supported and
2 confirmed by practical and on site
3 observations.
4 Experienced mariners realize that
5 fog can occur on both calm and windy days.
6 When foggy conditions combine with strong
7 winds and disturbed seas, navigation,
8 especially for smaller boats with minimal
9 navigation equipment becomes challenging.
10 With the added potential for wind turbines to
11 obscure and distort radar signals on vessels
12 so equipped, a very dangerous scenario emerges
13 for vessels of all sizes. This sort of
14 detailed analysis of sort of worst-case
15 conditions which can and do occur regularly in
16 the Horseshoe Shoals area is completely
17 overlooked in the DEIS.

18 The report misses the mark on
19 navigation safety in many respects. And one
20 of them is failure to address the significant
21 danger presented by placing 130 obstructions
22 to navigation in a place congested with boats
23 from May to October and which experiences
24

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1 significant fog in foul weather on a routine
2 basis.

3 This deficiency should be
4 considered as part of a larger package of
5 deficiencies that characterize the DEIS with
6 regard to marine navigation and hopefully will
7 be addressed in a supplemental report by
8 Minerals Management Service. I appreciate the
9 opportunity to speak with you tonight. Thank
10 you.

11 MR. MOORE: Thank you very much.
12 What number are you?

13 MR. BORJESON: 47. My name is Ron
14 Borjeson, a second-generation commercial
15 fisherman. I've fished in Nantucket Sound for
16 38 years. And I must say, in my 38 years on
17 Nantucket Sound, I've never seen, talked to,
18 or heard of anybody from the Seafarers
19 International. So after reviewing the EIS, I
20 have found a couple of issues in the document,
21 that they had profound negative impact on the
22 fishing community.

23 No. 1 is access. We have problems
24

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1 with that in saying that we will be able to
2 fish within that grid of 180 wind towers.
3 Well, EIS said we won't have any problem.
4 I've been doing this for 38 years, and I'm
5 telling you right now, it's an impossibility.
6 There is no way that you can maneuver within
7 those towers. I'm the expert, not them.

8 The other one is EIS says the
9 commercial fishing industry will only have an
10 adverse affect monetarily of \$15,000.
11 \$15,000? That is a total falsehood. I
12 wouldn't go out there personally if I was only
13 going to make \$15,000. We have evidence quite
14 to the contrary, to say that there is millions
15 of dollars produced right from that Horseshoe
16 Shoal area.

17 Thirdly, we have another government
18 agency, the National Marine Fisheries Service,
19 sister agency, that has deemed Horseshoe Shoal
20 an area of critical habitat and concern. I
21 don't understand how one hand of the
22 government can say this is a critical habitat,
23 everybody beware, nurture those fish along,
24

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1 and keep it safe, yet we have another hand of
2 the government that says to a private
3 developer, "You can go in there, you can
4 dredge, you can blast, you can drill in this
5 area." It makes no sense.

6 So I urge you not to approve this
7 project. Thank you very much.

8 MR. MOORE: Thank you.

9 MR. MORAST: Hello. I'm No. 48.
10 My name is Dan Morast, from the International
11 Wildlife Coalition. I'll just speak quickly
12 to one point here. It's getting late. I have
13 one concern about the DEIS. When it comes
14 down to who owns and controls the data from
15 this project, clearly there are going to be
16 impacts as this thing is built, either on
17 Nantucket Sound or somewhere nearby. It's
18 going to have impacts.

19 Right now it appears that the
20 developer gets the control, sets up the
21 protocols, owns the data. He reports to the
22 agency, but a lot of the protocols are
23 established by the developer. And given that

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1 this is an experiment, it only is going to be
2 located in one area, it appears it can only be
3 built in one area, and it's not a solution to
4 our energy crisis unless it can be transferred
5 to other communities -- if that's the case,
6 the people should own the data on impacts.
7 You, the Minerals Management Service and other
8 agencies, should be responsible for
9 establishing scientific protocols that will be
10 set up and monitored by your specialists so
11 that the people can transfer and share it with
12 other cities and towns who will face these
13 projects, not to have it's only one developer
14 that gets to own the inside data. I'm not
15 sure how that's addressed in the EIS or in
16 your future plans. We're going to look to you
17 to provide a solution. Thank you.

18 Thank you very much.

19 MS. SULLIVAN: Good evening. My
20 name is Carla Sullivan, and I was born and
21 raised here in Cape Cod. I'm currently
22 working in the local marine trade industry.
23 From a lifetime of being on the ocean, I've

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1 earned by (inaudible) captain's license, and I
2 regularly travel the waters of Nantucket
3 Sound. And I'd like to direct my comments
4 this evening to the issue of marine navigation
5 risk.

6 The DEIS did an inadequate job of
7 addressing the multitude of issues and does
8 not provide an accurate assessment of the
9 navigational risks in Nantucket Sound. The
10 U.S. Coast Guard was directed to provide MMS
11 with information on potential for wind
12 turbines to, and I'll quote, "interfere with
13 the marine communications or navigation
14 systems or produce radar reflection for blind
15 spots, shadow areas, or other effects that
16 would have significant impact on safety of
17 navigation."

18 This information is completely
19 missing from the DEIS and is a glaring
20 deficiency that begs your attention.

21 The Cape Wind project is fatally
22 flawed because it is incompatible with the
23 safety of vessels navigating this busy
24

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1 waterway. The nearest turbine to the edge of
2 the main shipping channel is a mere 1200 feet
3 from the charted edge of the channel. A
4 vessel losing control in the north (inaudible)
5 channel or with a deeper draft vessel could
6 have little more than 10 seconds to avoid
7 hitting a turbine. At a minimum there should
8 be a separation of less than perhaps two or
9 three nautical miles between the channel edges
10 and the turbine complex.

11 Martha's Vineyard to Hyannis Ferry
12 is going by the proposed wind complex from the
13 north channel to avoid crowding on Rec shoal
14 to a passage close as 975 feet to a turbine.
15 This lack of separation between the Cape Wind
16 facility and established ferry routes is
17 extremely dangerous and negligent.

18 Tonight, before we spoke, up on the
19 screen you had listed in the "DEIS
20 characterizes" the navigational impact to
21 sailors and motor boats as minor to moderate.
22 However, the Coast Guard guidelines for
23 navigating in Nantucket Sound in extremely
24

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1 foggy conditions, strong currents, and that
2 the sound boasts thousands of recreational
3 vessels, commercial vessels, and passenger
4 ferries, the Coast Guard characterizes this
5 area as a navigationally critical waterway.

6 Given the amount and variety of
7 daily traffic and the prevalence of fog and
8 fairly strong currents, the potential impact
9 of Cape Wind on marine navigation is far from
10 minor to moderate, but, rather, moderate to
11 major. And unlike the offshore facilities in
12 Europe, this is a critical navigation area,
13 deserving far closer scrutiny.

14 In conclusion, it appears
15 inadvisable for Cape Wind to proceed at this
16 current location and highly advisable for a
17 more appropriate, safer site to be identified.
18 On behalf of the boaters, the local boaters, I
19 thank you for your attention on this vitally
20 important nautical safety issue. Thank you.

21 MR. MOORE: 51, 52, 53, and 54.

22 MR. LAWLER: Good evening. My name
23 is David Lawler. I'm a resident of
24

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1 type of regional regulation is just -- you
2 know, it's upsetting to me, as an attorney,
3 representing all these developers. And their
4 complete intent, which as an attorney you can
5 see from the application and the documents
6 that I've read, that, yes, they've attempted
7 to paper the file and attempted to reach any
8 type of minimum requirements as they may think
9 that they need for any appeal or whatnot. But
10 it's clear from the evidence that they're
11 attempting to bootstrap to avoid the
12 Commission's authority. The Cape Cod
13 Commission has been around for many years, and
14 their attempt is to regulate growth here on
15 Cape Cod. As an attorney who's passionate
16 about his clients, passionate about the Cape,
17 it's very upsetting.

18 Those are my comments with respect
19 to what this corporate indifference is. As an
20 attorney, it's obvious. It hasn't really been
21 spoken -- one other person spoke about it
22 tonight. But they need to show that they will
23 appropriately respond to the questions that
24

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1 Osterville. I'm an attorney representing many
2 developers here on Cape Cod. But tonight I
3 represent myself, my wife, and our children.

4 In reviewing what I've seen by the
5 applicant, Cape Wind, corporate indifference
6 comes to mind, or corporate arrogance. In
7 representing planners throughout the Cape,
8 I've had the privilege of appearing before
9 many boards, mostly volunteer, whether zoning,
10 conservation, or the Cape Cod Commission. And
11 in reviewing the application for the Cape Cod
12 Commission, it appears to me that this
13 corporate indifference has taken place where
14 they have submitted essentially a barebones
15 application, or a little bit more than that,
16 and then refused to answer specific questions
17 when they had the information. It's obviously
18 intentional, to bootstrap their application to
19 the EFSB.

20 They have showed complete and utter
21 disregard for the Cape Cod Commission, which
22 is a nationally renowned regional planning
23 authority. And their attempt to avoid any
24

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1 are set before them. Thank you.

2 MR. MOORE: Thank you very much.

3 MR. BRICKUS: I'm Romas Brickus.
4 I'm an engineer from Cotuit and presently
5 engaged in an advisory role for three European
6 countries on long-term energy strategy.

7 I have basically two questions in
8 reference to your report. They are, one,
9 pertaining to the product, to the turbine and
10 the gearbox; and second to the impact on the
11 environment.

12 The first one: Will this newly
13 planned world's largest turbine and gearbox be
14 corrosion-tested in salt-mist environment
15 prior to product release? This is very
16 important, because this is a new product, a
17 product of much size, and for the sake of
18 time, I'm not going to go into coefficients of
19 thermal expansion, et cetera.

20 Second, as I understand from
21 reading the report, unless I missed it, this
22 product has not been tested in saltwater mist
23 under appropriate protocol, or any protocol.
24

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1 My concern is that we have some
2 examples in Europe that are not as glorious
3 and shining as were presented today by the
4 proponents of this project. Over a dozen
5 smaller than the Cape Cod wind planned
6 turbines, 9 kilometers offshore from Denmark,
7 were dismantled after three years of
8 operation. The reason was corrosion due to
9 salt mist, causing the turbine and the gearbox
10 to malfunction.

11 I inquired of the gentlemen that
12 were accompanying me as what has happened, and
13 they said, "Well, the turbine and the gearbox
14 are mechanical things. We had some errors in
15 tolerancing, and the sea mist got into the
16 mechanics, and we're doing mechanical
17 maintenance." And that mechanical maintenance
18 resulted in major dismantlement, and they are
19 still test towers.

20 The second thing is, will the Cape
21 Wind Corporation -- will plan additional
22 product by selling its carbon
23 pollution-generated credits to dirty
24

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1 coal-fired plants? Because from the very
2 beginning, the project of Cape Wind
3 Corporation claimed --

4 MR. MOORE: I'll ask you to finish.

5 MR. BRICKUS: -- that they are
6 going to reduce pollution. This is a lie.

7 MR. MOORE: Thank you very much.
8 52.

9 MR. WILLIAMS: My name is Chuck
10 Williams, citizen, sailor, from East Dennis.
11 The issue before us this evening is land-use
12 economics, determining the highest and best
13 use of the Nantucket Sound. The sound has
14 remained essentially the same as Champlain
15 experienced it in 1606. A single entity has
16 determined that over 15,000 acres right in the
17 middle of it is best to be used for a big
18 building surrounded by windmills. You at MMS
19 might not understand the importance of our
20 sound and bays. People come here and
21 literally turn their backs on the Cape,
22 looking to the ocean for their inspiration and
23 recreation. It's our most valuable resource.
24

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1 During this lengthy process, little
2 aptitude has been demonstrated for creative
3 planning. The draft EIS indicates no real
4 examination of costs and benefits for the
5 Cape. MMS has accepted the proposed scenario
6 as valid, assumes it has no landed or other
7 alternative, and is now reviewing an analysis
8 that verifies it, a truly sophomoric approval.
9 I'm sure your economic (inaudible) could
10 assist you in understanding the economic
11 benefits of open space from experience of his
12 state.

13 You might ask, this model
14 directional charade must be abandoned for a
15 comprehensive study of all our energy
16 opportunities. Our wild places deserve
17 better.

18 MR. MOORE: We'd like to have 53,
19 54, 55, and 56 come up.

20 MR. SIMPSON: My name is Skip
21 Simpson. I'm chairman of the board of the
22 Hyannis Area Chamber of Commerce. Recently
23 the board of directors met, and we voted
24

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1 unanimously to reaffirm our position opposed
2 to the Cape Wind project. Our position has
3 been consistent and firm throughout this
4 process.

5 What we've heard a couple of times
6 this evening is cost versus benefits. Clearly
7 the cost of this project far outweighs the
8 benefits. This is the wrong place for this
9 project. I urge you, please don't gamble with
10 our natural resources and equally important is
11 our economy. Thank you.

12 MR. ELRICK: Good evening. No. 54.
13 My name is Richard Elrick. I am president of
14 Clean Power Now, about which you've already
15 heard this evening. I've lived on the Cape
16 for 37 years, and for 26 of those years I've
17 been a ferry boat captain, operating ferry
18 boats of various sizes all over Nantucket
19 Sound, Vineyard Sound, as well as operating
20 sightseeing boats up and down the Cape Cod
21 Canal.
22

23 I want to begin by commending the
24 MMS for the thoroughness of the DEIS. By

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1 objectively and independently analyzing the
 2 anticipated impacts of Cape Wind, the
 3 exaggerations, distortions, and misstatements
 4 of the project's opponents have been shown
 5 false. When the opponents said that Nantucket
 6 Sound would be destroyed forever if the
 7 project were built, the DEIS pointed out that
 8 the developer would be required to submit a
 9 decommissioning plan and a surety bond as a
 10 guarantee. When the opponents said that the
 11 developer would be getting free and exclusive
 12 use of Horseshoe Shoal, the DEIS makes clear
 13 that the Energy Policy Act of 2005 mandates a
 14 substantial lease payment will be made to the
 15 State by the developer. And when the
 16 opponents said that the project would endanger
 17 navigation, the DEIS again points out that
 18 because Cape Wind will be placed on shallow
 19 Horseshoe Shoals and the turbines will be
 20 between six and nine football fields apart,
 21 there will be ample room for navigation for
 22 sailboats, ferry boats, or whatever other
 23 kinds of vessels have to navigate the area.
 24

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1 Again, a little bit of background
 2 from my own personal experience: I really
 3 find it hard to believe some of the fear,
 4 exaggerations that have been cited tonight by
 5 some of the folks who use Nantucket Sound.
 6 Really, it makes me pause and wonder about
 7 their navigation skills if they make the
 8 argument that they're not going to be able to
 9 navigate around these turbines.
 10
 11 I think one of the points that
 12 needs to be made, particularly with respect to
 13 the turbines and the fog, is that they will
 14 literally stand out like sore thumbs on
 15 anybody's radar screen. Indeed, they're going
 16 to serve as visible, identifiable reference
 17 points, and that will essentially be aids to
 18 navigation.
 19
 20 One of the points I think that
 21 needs to be pointed out with respect to fog is
 22 that the biggest problem mariners in most
 23 kinds of situations face aren't stationary
 24 targets like the turbines are going to be.
 25 They stand out, as I said, clearly. The array

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1 will be obvious to any navigator. It's the
 2 moving targets that create the biggest
 3 problem.
 4
 5 I talked to a lot of ferry boat
 6 captains, and they have told me in confidence,
 7 because many of them are frightened to say
 8 what they really believe, that their biggest
 9 concerns really are drunken boat operators and
 10 wind surfers coming down the channel into
 11 Hyannis. Honestly, I think the fear, the
 12 exaggeration has been unfounded.
 13
 14 Cape Wind isn't going to be a
 15 panacea, but it is the absolute most important
 16 first step we can make if we're going to
 17 reduce our reliance on fossil fuels and move
 18 to a new energy future. I would urge you to
 19 think as long and hard as you can about this
 20 issue and offer a positive opinion when the
 21 time comes. Thank you.
 22
 23 MR. MOORE: Thank you very much.
 24 Next speaker? What is your number?
 25
 26 MR. GILMORE: 55. Good evening.
 27 I'm Jerry Gilmore, as the last elected

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1 selectman in the Town of Barnstable, I'd like
 2 to echo the sentiments of one earlier speaker,
 3 my neighbor, selectperson from the Town of
 4 Yarmouth, who offered the rhetorical "There
 5 are too many questions, not enough answers."
 6
 7 I have just two questions this
 8 evening, and I encourage you to insist on
 9 answers to one and consideration of the other
 10 as you deliberate before the end of the
 11 comment period.
 12
 13 How much will this project add to
 14 my electric bill in order for the developer to
 15 realize what is purported to be more than a
 16 million dollars a week in tax credits from the
 17 Federal and state governments? Is it \$20 a
 18 month? \$30 a month? \$40 a month? I don't
 19 know. It's not in your DEIS. I spoke with
 20 Mr. Gordon, who is the representative of the
 21 developer, the principal, if you will, and he
 22 didn't give me an answer. I think you have an
 23 obligation to insist on an answer.
 24
 25 The other question that I have
 26 concerns the area of zoning. I served as a

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1 member of the Barnstable Zoning Board of
2 Appeals, and when we have applications that
3 come before us, we routinely give additional
4 credibility and attention to the comments of
5 abutters. Your hearings this evening, and
6 indeed tomorrow night on Martha's Vineyard and
7 the following night in Nantucket -- I may have
8 the islands backwards, but you'll visit both
9 of them -- give, I think, an opportunity for
10 you to hear from abutters, and then on the
11 final night you will hear from those in the
12 City of Boston. I won't be surprised if
13 Boston provides a very different environment.

14 One other just observation. A long
15 time ago, when I was first in public service,
16 people told me that democracies are run by
17 people who show up. And I thank you for
18 showing up here this evening. I thank both
19 the proponents and the opponents for showing
20 up this evening and offering their comments on
21 this very important project to our region.
22 Thank you.

23 MR. CROSSLEY: My name is Bill

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1 Crossley. I live in Hyannis. I'm not a rich
2 guy who doesn't want his views from his deck
3 ruined. I'm a working guy who goes to these
4 beaches, and I don't want all of our views
5 ruined.

6 I don't believe Jim Gordon has the
7 right to show up and take the sound. It was
8 designated as a marine sanctuary for a
9 reason -- where the people of New England have
10 been using this area for recreation and
11 fishing for hundreds of years. Its natural
12 beauty is breathtaking. I hope you take a
13 nice, slow boat ride to Nantucket, and if you
14 do, contemplate the beauty. Look out the
15 windows as you pass over this area.

16 This is why I moved to Hyannis 20
17 years ago. The view from the beach -- maybe
18 you'll wonder how anyone could want to put an
19 industrial complex there? It will also, I
20 think, make all our electricity more
21 expensive. You need the steam power or
22 nuclear-power plants to meet demand when the
23 wind isn't blowing. Then how much is the

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1 power going to cost from a plant that is
2 expected to run at 60 to 80 percent capacity?
3 Then that power has to offset and become more
4 expensive from our regular generation plants.

5 I'm also wondering if you have an
6 impact statement to the amount of copper that
7 is sloughed off from the commutators or
8 brushes in these generators? Copper in this
9 form is poisonous to the marine environment.

10 Until we have comprehensive Federal
11 rules to govern such ocean projects, we should
12 just go ahead and ruin Nantucket Sound, just
13 because this was the first project? Europe
14 uses ocean wind power, but they don't let them
15 just put it anywhere.

16 And lastly, I don't care about the
17 IBEW and if they have their jobs there. If it
18 were a regular power plant, they'd be all for
19 that, also. They're just out for themselves.
20 Thank you.

21 MR. MOORE: Thank you very much.
22 57, 58, 59, and 60.

23 MR. COUNSELL: Good evening. My

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1 name is Lindsay Counsell. I'm the executive
2 director of Three Bays Preservation. I want
3 to thank the Minerals Management Service for
4 the opportunity to speak tonight.

5 Three Bays Preservation is the
6 owner of Dead Neck Island, an 85-acre barrier
7 island in Nantucket Sound off (inaudible).
8 The island is a critical nesting habitat for
9 the (inaudible) piping plover and threatened
10 roseate terns as well as other important shore
11 birds.

12 It is the considered opinion of our
13 organization that the wind factory that is
14 proposed for the sound is a clear threat to
15 the sustainability of nesting populations that
16 use our islands, as well as the 20-plus other
17 significant shore bird nesting sites that ring
18 Nantucket Sound. No comprehensive scientific
19 information exists from this project or
20 independently on how the various species of
21 birds use the sound for migrating, foraging,
22 breeding, and nesting.

23 This 25-square-mile wind factory

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1 also presents a danger to the migrating birds
2 that pass through the sound each year as well
3 as the new inward (inaudible) that winter on
4 the sound every season. Without this kind of
5 data, a reasoned evaluation of the impact of a
6 project of this scale is impossible.

7 To date the information provided by
8 the applicant has been scant at best. The
9 comprehensive (inaudible) avian study called
10 for from the inception of this project by many
11 reviewing agencies and private concerns has
12 not been started. Many of the bird counts
13 provided were performed at less than optimal
14 times of the year for many species or at worst
15 were not performed at all.

16 To substantiate this I submit the
17 following from the Draft Environmental Impact
18 Statement, Chapter 6, cumulative impact
19 analysis, Section 1.3.1.2.2, on migration, and
20 I quote: "Detailed information about the
21 exact migration routes for the population,
22 i.e., piping plover, is incomplete, from the
23 United States Fish and Wildlife Service," end
24

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1 quote.

2 Secondly, quote, "To develop a more
3 complete understanding of piping plover
4 migration, additional information would be
5 needed about piping plover migration patterns
6 in a variety of weather conditions during both
7 the day and night, including flight heights,
8 flight patterns (for example, coastal,
9 offshore, or well offshore), flight
10 directions, and additional important
11 (inaudible) habitats."

12 These comments from the DEIS
13 clearly state the need for additional
14 information on the avian uses of Nantucket
15 Sound, a vital resource for endangered
16 species. These statements also indicate the
17 weakness of the applicant's overall efforts to
18 furnish current, factual, unbiased, and
19 scientific data on the avian uses of Nantucket
20 Sound so the project reviewers can make a
21 reasoned judgment on the appropriateness of
22 this location for this mammoth undertaking.
23

24 I urge you to deny this project

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1 based on the unavoidable environmental impacts
2 of this project and the costs that far
3 outweigh any purported benefits as claimed by
4 the developer. Thank you.

5 MR. MOORE: Thank you very much.
6 We are now at 57 or 58.

7 MR. BATY: 58. Good evening, and
8 thank you so much for taking your time and
9 efforts to come join us here in Yarmouth. My
10 name is Steve Baty. I've owned a business on
11 the Cape since 1977. I'd like to address the
12 high cost of power that the Cape Wind would
13 generate.

14 The analysis that's been presented
15 in Appendix F of the DEIS concludes that Cape
16 Wind is not economically viable because the
17 cost of the power is so high. Even these
18 costs are extremely -- these estimates are
19 likely too low. The DEIS states that the
20 estimated cost of producing electricity from
21 the proposed wind project is above the
22 regional New England market for electricity.
23 With costs above the market, Cape Wind would
24

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1 not be profitable. Now, the DEIS shows the
2 cost of electricity to be \$122 per
3 megawatthour. Now, this compares to the
4 regional southeastern Massachusetts wholesale
5 market price of only \$66 per megawatthour.

6 So the cost of the Cape Wind power
7 is approximately double the market price, and
8 this is after significant government
9 subsidies. Now, don't get me started on
10 government subsidies, but that's another
11 point.

12 Before the subsidies, the DEIS
13 shows the cost of generation to be triple this
14 amount. But the DEIS does not make available
15 the cost data and/ or assumed capital costs.

16 Now, I understand from Cape Wind
17 public comments that the capital is assumed to
18 be in the neighborhood of 1.2 billion.
19 However, 1.2 billion is likely too low, given
20 the escalation of the capital costs we've seen
21 for the canceled LIPA offshore wind project,
22 and recent media project has put the Cape Wind
23 at 1.6 billion.
24

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1 Now, a higher-cost capital would
2 drive the evaluated cost well above the \$122
3 per megawatthour. Now, other assumptions in
4 Appendix F are also questionable; if
5 corrected, would also drive the costs even
6 higher. For example, the debt/equity ratio
7 seems to assume too much debt. With more
8 expensive equity, the overall cost would
9 increase. And the debt coverage is also too
10 low, now, for the risks involved in this
11 project. Now, with larger debt coverage, the
12 costs would also increase again. So therefore
13 the \$122 per megawatthour is optimistic and
14 would actually be much higher.

15 Now, while I agree that Cape Wind
16 is not a viable project at today's market
17 prices, I request the MMS make the cost data
18 and analysis used available to the public for
19 full review. I just want to say that the
20 economics don't work. The numbers don't work
21 for this project. The only person that these
22 numbers work for is Mr. Gordon of Cape Wind,
23 and the only reason that it works for him is

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1 because he's getting the money from the
2 taxpayers of America.

3 MR. MOORE: Thank you. 59? 60?

4 AUDIENCE MEMBER: 59. Thank you,
5 gentlemen, for being here. I'm proud to be
6 here. I'm from Texas originally, so if I talk
7 a little slow, I apologize.

8 MR. MOORE: You're going to help
9 Alan a lot.

10 AUDIENCE MEMBER: I want to set the
11 record straight on the fellow here that quoted
12 John F. Kennedy earlier. I can assure you
13 that John F. Kennedy would not be in favor of
14 this project. He was a friend of mine at
15 Harvard freshmen year. I met his brother.
16 I've been a friend of that family ever since.
17 I campaigned for him in West Virginia and also
18 the Western states, 13 of them. I can assure
19 you that he would not want to put those things
20 out in Nantucket Sound. So that's for the
21 record.

22 No. 2, I hear -- I have the
23 audacity, because I've lived in California, on

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1 the coast, in Malibu, I've lived in Texas on
2 the coast, lived in Mississippi on the coast,
3 and the prettiest waters here in the United
4 States are probably right out here on the
5 sound. And I felt it important to speak for
6 not only the residents of the Cape or the
7 Commonwealth of Massachusetts, but for the
8 whole United States. This ground to me is as
9 sacred as the Alamo, the Grand Canyon, the
10 Mount Rushmore. I don't think anyone in this
11 country would endorse placing big towers in
12 those locations, and I certainly don't.

13 How anyone -- when this first was
14 mentioned, I couldn't believe it. Those
15 waters are for 200 years the most historical
16 waters offshore in the United States. The
17 history, 200 years of history. And how they
18 can desecrate it with that kind of an
19 operation is beyond me.

20 So I am here again speaking for not
21 only this generation of Americans but for the
22 future Americans, our children, grandchildren,
23 and thereafter. I know people come from all

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1 over the United States here, love the Cape,
2 come from Europe, come from all over the
3 world. And to desecrate that ground out there
4 to me would be the greatest mistake in my
5 generation. Thank you very much.

6 MR. MOORE: 61, 62, 63, 64.

7 MR. ADAMS: I'm 60. My name is
8 Jack Adams, and I'm an electrical engineer
9 living here in Centerville on the Cape. By
10 way of background, I've been involved since
11 1990 in the area of possible health effects on
12 humans due to proximity to electric
13 transmission lines. I'm also interested in
14 electric energy conservation and renewable
15 energy, and my wife and I have a solar hot
16 water heater sitting on top of our home.

17 I'm very concerned that this debate
18 is taking place more as a political contest
19 with both sides checking out oversimplistic
20 30-second radio spots. The environment needs
21 us to think and work together in this crucial
22 time.

23 As an electrical engineer, there

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1 are a number of challenges that the DEIS does
2 not appear to have addressed. We have no
3 experience here in New England in integrating
4 wind power of the proposed scope into the
5 electrical grid. Wind power is highly
6 intermittent, with output sometimes changing
7 by ten times over the course of one day. This
8 is a real challenge. And recent major dips in
9 wind power in West Texas, the state that is
10 experienced with wind power, forced drastic
11 and expensive measures to be taken by the
12 utilities there.

13 For the sake of brevity: I agree
14 with two previous comments made concerning the
15 GE turbines that are proposed for use. These
16 are experimental, still, in nature and have
17 not been proven anything like the scope
18 proposed. For these and numerous other
19 reasons, I believe that we are likely to run
20 into serious cost overruns, resulting in the
21 produced power being significantly more
22 expensive than projected. As a result, there
23 would likely be significantly greater
24

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1 subsidies required to produce and sell this
2 power than now planned. I believe that
3 there's not been a careful comparison between
4 the planned project and other approaches to
5 preserve the environment. For one,
6 incentivizing smaller local installations
7 could yield much better environmental and
8 economic return on investment.

9 I believe this discussion needs to
10 be rational and based on real engineering
11 economic and environmental considerations. By
12 working and thinking together, we can create
13 commonsense solutions that create a win for us
14 all. My thanks to you for your attention.

15 MR. MOORE: Thank you very much. I
16 want to do a quick check. We have one hour,
17 which means that if everyone takes three
18 minutes, we'll only go up to No. 80. Is there
19 anyone in the room who has a number that is
20 above 80? Those of you who have a number
21 above 80, it is highly unlikely that you will
22 be able to speak tonight. So what I would
23 encourage you to do is to have written
24

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1 comments. You can either put them in the
2 comment box, you can send them to MMS by
3 email. The numbers are out there, with
4 information. But I think it's likely you're
5 not going to be able to speak tonight --
6 unless some people have dropped out in
7 between. So we'll see where we are.

8 MS. BISKBING: My name is Sheila
9 Biskbing. I live in Yarmouth. I've owned a
10 house here for about 25 years, but I've only
11 lived here full-time about three years.
12 Before that I hadn't been here for about two
13 (inaudible).
14

15 I came here and heard about the
16 Cape Wind project for the first time, really,
17 and I said did everybody fall asleep while
18 they were planning this? I was shocked that
19 anyone was even considering doing this in the
20 sound.

21 I'm a civil engineer. I have spent
22 most of my career in the power business and in
23 the hazardous waste environmental business.
24 My second career is in the environmental

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1 business. But when we do an environmental
2 impact statement for a power plant, we look at
3 all the options, look at the power needs, and
4 then select the best option. It wasn't just
5 we're going to go with wind and we're going to
6 see where we're going to put the wind.

7 A lot of people have talked about
8 cost versus benefit. But I haven't heard
9 anybody talk about risk versus benefit. There
10 are no benefits environmentally to this
11 project. No other power plants are being shut
12 down. There's no offsetable oil. You're not
13 stopping any emissions from any coal plant,
14 because you're not making any power shut down
15 in any other plant. So there's no
16 environmental benefits to the project per se.
17 So all you have is risk. And even if the risk
18 is minimal, any environmental impact is risk.

19 You hope, when you put turbines out
20 there, it's got the same maintenance
21 requirements as any other piece of equipment.
22 You bring out oil, solvents. The hazardous
23 waste sites are not, you know, big chemical
24

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1 waste sites or anything like that. It's from
2 maintenance of equipment and things like that
3 going in the ground, accidental spills in the
4 water. They're not planned side effects of
5 what you're doing. So, you know, you're going
6 to have people out there maintaining these
7 turbines.

8 I don't know, I came out of school
9 in the late '70s and there were gas lines. I
10 was in the nuclear power business at the time,
11 and then suddenly we had a synthetic fuels
12 department in my company, and synthetic fuels
13 were hot while the gas lines were there. And
14 then that wore off, and now we have 9/11 and
15 the price of oil has gone up again.

16 It's important for all of us to
17 stay with alternative energy forms, not just
18 do it for the day and not to run after what
19 seems most convenient. And it seems to me
20 this is a demonstration project more than
21 anything. You don't put it in an
22 environmentally sensitive place. It just
23 doesn't make any sense. Wind is necessary,
24

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1 species. The ecology of the Horseshoe Shoal
2 area, and perhaps more broadly across the
3 sound, could suffer greatly, as could the
4 Nantucket Sound fishery.

5 The DEIS contains cursory and
6 incomplete analyses of the potential benthic
7 impacts of the project. There are extensive
8 data deficiencies, and the limited data
9 collected, and the existing data discussed,
10 are used to support incomplete analysis.

11 The most disturbing issue is that
12 MMS chose to once again rely on the
13 applicant's benthic surveys of 2001 and 2002.
14 These early studies should have been banned in
15 favor of newly redesigned benthic surveys that
16 would have provided defensible data and
17 information. For example, a minimum of three
18 replicate samples should have been completed
19 at each sampling station to truly characterize
20 the benthic composition and community.

21 As it stands, the limited surveys
22 of the proposed site were poorly designed,
23 inadequately analyzed, and provide no
24

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1 like every other kind of alternative fuel.
2 But you put it where it makes sense. You
3 don't just put it in Nantucket Sound. Thank
4 you.

5 MR. MOORE: Thank you very much.
6 No 63?

7 MR. PEROS: Good evening. My name
8 is Jon Peros. I'm a lifelong resident of the
9 East Falmouth, Massachusetts. I'm a full-time
10 student at Hamilton College and a staff
11 environmentalist at the Alliance to Protect
12 Nantucket Sound.

13 One of the most sweeping impacts of
14 the Cape Wind project is the effect it will
15 have to the 25 square miles of sea where the
16 project is planned, the 12 miles of undersea
17 cable trenching to connect the wind plant to
18 the shore. A critical concern is that placing
19 130 turbines and miles of cabling in the
20 seabed of a sensitive area like Horseshoe
21 Shoal will cause elevated turbidity, which
22 will smother bottom-dwelling organisms, kill
23 juvenile fish, and drive off adult fish
24

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1 meaningful description of benthic resources or
2 significant environmental factors. No attempt
3 is made on the DEIS to analyze even the
4 limited site-specific data on and near
5 Horseshoe Shoals to formulate reasonable
6 predictions of the potential environmental
7 consequences of project implementation.
8 Claims of negligible and minor biological and
9 ecological impacts at the proposed Horseshoe
10 Shoal location are not supported by
11 information presented in the DEIS.

12 In conclusion, the evaluation of
13 impacts on benthic ecosystems presented in
14 this DEIS is inadequate for evaluating
15 environmental cost-benefit relationships.
16 Additional work should be done. Most
17 importantly, surveys of the benthic habitats
18 in communities in the action area should be
19 redesigned and repeated. Thank you.

20 MR. STIMPSON: Good evening. Chris
21 Stimpson, a director of Clean Power Now and
22 executive for Campaign for a Solar Nation.
23 Why should Cape Wind and other renewable
24

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1 energy projects like it be permitted? Is it
2 the growing evidence of climate change
3 worldwide, or species losing their habitat,
4 glaciers melting, streams (inaudible) mud,
5 coastal populations threatened, as well as
6 local fossil fuel pollution, rising fuel
7 prices, the onset of peak oil, and the need
8 for energy independence and diversification?

9 No, not really, because little of
10 this is of immediate concern to the Minerals
11 Management Service in the permitting of Cape
12 Wind. The only framework in which we can
13 consider the aptitude of the Cape Wind project
14 to receive a permit to operate is that of the
15 MMS's environmental impact review. We could
16 have reached peak oil and lost every glacier
17 on earth, not to mention millions of lives in
18 low-lying areas, and if the building or
19 operation of Cape Wind were shown by the DEIS
20 to pose a major threat to the environment or
21 navigation or wildlife habitat or commerce,
22 then it would not receive its permit.

23 What the DEIS shows, however, is
24

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1 that, of 160 impacts evaluated, 106 are graded
2 as negligible or minor, including noise,
3 oceanography, air and water quality,
4 vegetation, fauna, terrestrial burdens,
5 subtidal creatures, softshell crabs on the
6 coast, recreation, tourism, air, sea, and land
7 traffic.

8 Of the remaining ten impacts, nine
9 are somewhere between negligible and moderate,
10 including some kind of birds, marine mammals
11 and eggs; and even a moderate impact means
12 either that viability of the resource is not
13 threatened or that it would recover completely
14 with proper mitigation.

15 Potential fluid spills are graded
16 as minor to moderate. Although this should be
17 seen in the context of Paragraph 5.2.3, which
18 estimates -- are you listening? -- a 1 percent
19 chance over 30 years of a major fluid spill
20 from the transformer platform, 1 percent over
21 30 years. Gee, I'm scared. The Figawi race
22 gets a moderate impact, and we've certainly
23 got the Figawi covered with proper mitigation.
24

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1 There's just one major impact
2 described, the visual impact, which according
3 to Paragraph 5.3.3.4 applies to boaters near
4 or within Horseshoe Shoals close to the
5 structures. In claiming (inaudible), one
6 should go right up to the tall structure, and
7 it appears.... tall. This does not apply to
8 recreational areas, by the way. If you sit on
9 the beach, the turbines won't block the sun's
10 rays. You'll still need SPF 30.

11 So, why am I telling you this, up
12 on the stage? I don't know. You wrote the
13 report. You know what's in it. But it's
14 worth reminding everyone else here that
15 anything you heard tonight that isn't in those
16 categories that I mentioned is not germane to
17 what the MMS has to do -- not tendentious
18 last-minute announcements of miasmic,
19 deepwater wind farms, not misquoted and
20 misrepresented passages from the DEIS about
21 the cost of electricity.

22 Don't let anyone sidetrack you.
23 The MMS hasn't. This DEIS lays to rest the
24

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1 doubts and fears that many have expressed over
2 the last six years. I urge the MMS to move
3 speedily to complete its recommendations of
4 permitting of the Cape Wind project. Thank
5 you.
6

7 MR. MOORE: Nos. 65 through 70.
8 No. 65? 66? 67?

9 MR. BULDA: I'm Rich Bulda. I'm
10 from western Massachusetts. I want to talk
11 about my one day at the Figawi race. I have
12 some pictures to put into the testimony. I
13 have pictures of sailboats and crews from
14 Nantucket that were sailing that day. I have
15 pictures of different TV stations filming the
16 races; Baxter's, which is a great restaurant
17 in Hyannis, and a lot of people go there.

18 And if you just see, when you're
19 looking at the pictures, you'll see thousands
20 of boats, people having great times. And
21 that's what Nantucket's about, the beaches and
22 the Cape, Hyannis. It's just everyone on the
23 Cape is not to see windmills, it's to see
24 sailboats, fishing. I even have a few

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1 pictures of some guys that came up from New
2 York on a bus and their whole thing was just
3 for fishing.

4 I just don't want to see that go
5 away. If there's one accident, I don't know
6 how many gallons that is of oil -- but it's
7 still oil, no matter how you look at it. They
8 could just wipe out everything in that area.
9 The beaches, the sun -- that's what everyone
10 comes down to Cape Cod for. That's all I have
11 to say.

12 MR. MOORE: Thank you very much.
13 No. 68?

14 MR. KLEEKAMP: Thank you. My name
15 is Charles Kleekamp. I'm a resident of
16 Sandwich, a retired professional electrical
17 engineer. And I'd like to address the
18 Minerals Management Service.

19 First, I'd like to thank you for
20 your careful analysis and the overwhelmingly
21 favorable Draft Environmental Impact Statement
22 on the Cape Wind project, which points out
23 that the proposed site at Horseshoe Shoal has
24

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1 compared to both existing and the construction
2 of new fossil-fueled and nuclear generators,
3 based on current fuel costs along with all
4 operating, maintenance, insurance, and
5 decommissioning costs.

6 For example, oil-fueled generation,
7 which makes up 24 percent of the total
8 capacity in New England -- let me repeat that:
9 Oil-fueled generation makes up 24 percent of
10 the total capacity in New England. The cost
11 of electricity based on just the cost of oil
12 alone is now 12 cents a kilowatthour and
13 increasing. This is based on the efficiency
14 or the heat rate of the boilers at the Canal
15 Power Plant. And it does not include the
16 operating, maintenance, or any other
17 associated costs. That points out that wind
18 power is obviously far, far less.

19 Indeed, I suggest you compare the
20 cost of electricity from new zero-emission
21 coal plants, like Future Gen, that was just
22 cancelled, that sequester carbon dioxide and
23 include the cost of coal from mining
24

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1 the lowest estimated cost of energy, equal to
2 12.2 cents per kilowatthour when compared with
3 all alternative sites, and for withdrawing
4 misleading references to the apparent
5 profitability in this draft.

6 Nonetheless, I would like to call
7 your attention to the fact that your cost
8 estimate of wind-generated electricity is
9 less, for example -- I repeat that: is
10 less -- than the NSTAR rate for generated
11 power in February 2008, which is advertised at
12 12.5 cents a kilowatthour, a cost that
13 reflects the actual price of the wholesale
14 market. Let me repeat that: a cost that
15 reflects the actual price of the wholesale
16 market. That's because NSTAR is a regulated
17 distribution utility and cannot add onto the
18 cost of their purchase of wholesale
19 electricity.

20 Therefore, I would suggest that you
21 include in the final document a prospective
22 discussion of the competitive wholesale market
23 cost of Cape Wind's generated electricity
24

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1 operations that would cause no harmful,
2 deleterious health effects and return the
3 landscape to its pristine condition after the
4 mine was decommissioned. Thank you very much.

5 MR. MOORE: Thank you. 69 and 70.

6 MS. SHERWOOD: 69. Good evening.

7 My name is Lynn Sherwood. I'm a resident of
8 the Town of Barnstable, where I have lived for
9 28 years. My background on Cape Cod includes
10 three years in the sports fishing industry,
11 four years working for the natural resources
12 department for the Town of Yarmouth, 12 years
13 working for the Massachusetts Division of
14 Marine Fisheries, southeast region, and eight
15 years teaching fifth grade here in the Town of
16 Yarmouth.

17 I greatly appreciate the work put
18 forth by the MMS to produce their very
19 thorough DEIS, which addresses the many issues
20 and comments made throughout this lengthy
21 period of public debate and local, State, and
22 Federal review. It is once again very clear
23 that the social, environmental, and economic
24

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1 benefits of the project far outweigh the
2 mostly negligible or minor potential impacts
3 of the above categories.

4 I care about the sound. I've spent
5 a great amount of time working in and along
6 the (inaudible) shoreline of Nantucket Sound.
7 As a member of the shellfish sanitation
8 program with the Division of Marine Fisheries,
9 I have walked every inch of the shoreline, its
10 adjacent rivers, ponds, and (inaudible),
11 documenting examples of all potential and
12 actual pollution sources, as well as sampling
13 many offshore sites near the sound. I've
14 worked on the survey boats that sample the
15 fish populations. I was working for the Town
16 of Yarmouth when tires were placed on the
17 sound's floor to create an artificial reef in
18 an attempt to improve fishery habitat and
19 abundance in the sound, because it's pretty
20 low. I've spent a great many hours boating,
21 fishing, and studying the sound.

22 In my opinion, the best way to try
23 to save the sound is by permitting a wind farm
24

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1 to reduce pollutants and combat the threat and
2 effects of global warming, which is by far the
3 most serious and lasting threat to fisheries,
4 wildlife, the shoreline, and our economy.

5 Will the project have an impact on
6 the sound? Yeah, of course. We all have an
7 impact on the sound. We all flush our
8 toilets, drive our cars, use electricity. If
9 you've ever been out on the sound, or Cape Cod
10 Bay, for that matter, then you see the impact
11 of our present power usage and the yellow haze
12 that hangs to the west, where (inaudible) is
13 constantly discharging toxins into the air
14 that we breathe.

15 Is there a chance that the
16 windmills may cause a hazard to navigation of
17 some type in the future? Yeah, of course, but
18 isn't there an even greater chance that it
19 will be an aid to navigation in the future? I
20 know when I've been out on the water,
21 structures have been more of an aid to
22 navigation than a hazard.

23 Is it possible that for avian
24

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1 (inaudible)? Sure. But I'm willing to bet
2 that our collective household cats and our
3 cars will kill more birds in a year than a
4 wind farm.

5 So the point is, there's always
6 going to be what-if's. So what if we don't
7 realize the clean renewable energy source?
8 Those are the impacts we should be worried
9 about. What would the environmental impact
10 statement look like if we build another
11 coal-powered plant? (Inaudible)

12 MR. MOORE: You need to finish.

13 MS. SHERWOOD: I just would like to
14 encourage you to do for the common good and
15 let this project move forward. Thank you.

16 MR. MOORE: I think we're probably
17 going to be able to make it to the folks who
18 are up in the 80s. I'd like 71 through 75 to
19 come up. 71?

20 MR. WIDEMAN: My name is Bob
21 Wideman, from Osterville. Good evening.
22 Thank you for enduring this public hearing.

23 I'm a sailor, and I've been sailing
24

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1 all my life, and I love Nantucket Sound. Not
2 only am I a strong supporter of renewable
3 energy, especially wind; I also actually
4 design, install renewable energy systems.
5 Most them are much, much smaller scale than
6 we're talking about here, but I'd like you to
7 know that gives me a very interesting
8 perspective on energy in general and also on
9 how renewable energies can impact our lives.

10 I had a great opportunity to travel
11 to Denmark several years ago and took interest
12 in finding out details of how those projects
13 over there in Europe have affected the folks
14 on the coastline. Because I'm a sailor, I
15 took it upon myself to charter a sailboat and
16 sail out the six miles offshore to go sail
17 amongst the wind turbines and experience for
18 myself.

19 It was a really profound, awesome
20 experience. I observed and took photographs
21 and video of radar on the vessel we were
22 sailing and felt the effects firsthand of
23 sailing amongst the wind turbines and
24

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1 experienced how we can share the sound and
 2 share the water feed and enjoy recreational
 3 boating way out there, six miles offshore.
 4 So it reinforced my belief that we
 5 can coexist and get the clean, renewable
 6 energy this area so desperately needs to start
 7 to shift to. As well, I understand the
 8 majority of the folks on Cape Cod and in the
 9 Commonwealth of Massachusetts are supportive
 10 of this project. We need this project to
 11 shift away from polluting fossil fuels that we
 12 depend so greatly on for our energy needs now.
 13 We need to put aside the distortion and
 14 deception.

15 I thank you for your evenhanded
 16 review of this process, both in the public and
 17 also in the environmental impact statement. I
 18 urge your speedy approval of this project. We
 19 desperately need the change. Thank you.

20 MR. MOORE: Thank you very much.
 21 What number are you?

22 MR. KURKER: 75. My name is Wayne
 23 Kurker, and I'm the owner/operator of Hyannis

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1 Hy-Line agree, the commercial fishing fleet
 2 agrees, the pleasure boaters agree, the
 3 marinas agree, we all agree, and all have been
 4 objecting to this project for over six years.
 5 However, for these six years Cape
 6 Wind has responded to our concerns either with
 7 denial or with insincere and unrealistic
 8 solutions to navigational safety. Let me read
 9 you two examples of Cape Wind's unrealistic
 10 solutions, and these are quoted directly from
 11 Cape Wind's navigational risk assessments
 12 executive summary.

13 From Page 4, Paragraph 3, Cape
 14 Wind's report says, quote, "Mariners utilizing
 15 the areas in and around the wind park will
 16 require guidance on the potential effects of
 17 the wind turbines' generators on radar," end
 18 quote. The reality is that this is
 19 impossible. The radar experts both from the
 20 United States and from Great Britain agree
 21 that there is no guidance to give because
 22 there is no solution to the radar interference
 23 problem created by the turbines. And even if

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1 Marina for over 30 years. I hear competing
 2 interests from the fishing industry, and from
 3 the most of them were getting up and saying
 4 how the fishing would be hurt, and I heard the
 5 Seafarers Union get up and say, "We think it
 6 won't get hurt, we think it's shallow water in
 7 there, and we cannot operate in that area."

8 So I'd like to first ask you to
 9 check on what you heard. I think you'll find
 10 out the Seafarers Union isn't a fishing
 11 organization and the Seafarers aren't
 12 fishermen. And then if you look at the chart
 13 itself, you'll see that the area that he said
 14 was unnavigable is navigable. It's just as
 15 deep, it's just as navigable as the rest of
 16 Nantucket Sound. Ninety-five percent of the
 17 area that the wind farm is going to get built
 18 in is navigable.

19 The fact is that all of the major
 20 users of this waterway agree that this area is
 21 navigable but that Cape Wind will make the
 22 area unsafe for navigation. The two ferry
 23 lines, the Steamship Authority, and the

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1 there were, I don't know how Minerals
 2 Management Service would possibly reach out to
 3 tens of thousands of mariners to give them
 4 this guidance.

5 Cape Wind's report goes on to say,
 6 quote, "To avoid collisions with other vessels
 7 in and around the wind park, mariners will
 8 need to scrutinize more closely radar data
 9 received to identify vessels that may be
 10 temporarily masked by radar screens, either
 11 true or false, from the wind turbine
 12 generators," end quote.

13 This is so misleading it is
 14 unconscionable, because the radar experts
 15 agree that no matter how closely you
 16 scrutinize a radar screen, you simply can't
 17 see other boats or buoys or anything if
 18 they're in the shadows or in the silos of wind
 19 turbines.

20 Cape Wind's revised navigational
 21 risk assessment goes on. With all the
 22 evidence that has been submitted over the past
 23 six and a half years, I once again urge you to

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1 reject this project. Thank you.

2 MR. MOORE: Thank you very much.

3 No. 77? 78? 79, and 80.

4 MS. MARZIGLIANO: Good evening. My

5 name is Christine Marzigliano, and I'm a

6 recent wash-ashore, and I live in

7 Yarmouthport. I've been involved in

8 environmental affairs in New York for many

9 years.

10 One thing that comes up when an
11 environmental issue comes up is that you have

12 to take a hard look at all of the issues. I

13 am certainly for wind farms. When you take a

14 hard look at alternate sites, it doesn't mean

15 that you just shift them a little bit up and

16 down or left or right, all within the same

17 side of Nantucket Sound. You have to really

18 go out and find true alternate sites. So I

19 challenge you: Make them go back and find

20 other alternate sites outside of Nantucket

21 Sound and then weigh everything.

22 You have to take another hard look

23 at the real costs of Cape Wind, and that means

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1 all of the costs. The Jones Beach wind farm
2 was canceled when the costs were finalized at
3 more than two and a half times the original
4 estimates because not everything was included.

5 Again, I challenge you, put everything into
6 the DEIS, all of the costs, because after
7 listening to everybody tonight for hours and
8 hours and hours, it would seem the DEIS is
9 flawed in many ways. And I challenge you to
10 go back and do a supplemental DEIS, correct it
11 so that all the facts are correct and proper.

12 I cannot conceive of choosing a
13 wind farm site that sacrifices the pristine
14 beauty of a location that relies economically
15 on that pristine beauty. All of our motels
16 are along the South Shore of Cape Cod.

17 I came to Cape Cod because -- I
18 moved here because for 35 years I'd been
19 coming here. I had a very stressful job in
20 Manhattan at a law firm, and every time I got
21 stressed out, I came here, because of the
22 beauty, the friendliness of the people, and
23 the vistas of the water. There is something

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1 very cleansing about looking out at Nantucket

2 Sound to let you relax. I'm not against wind

3 farms, but, you know, I've seen them in

4 England and I've seen them in Costa Rica.

5 These wind farms are 38 stories high. It's

6 the height of the U.N. building in Manhattan.

7 And if I can see 35 miles away from Jones

8 Beach to New York City, they're certainly

9 going to be very visible in Nantucket Sound.

10 I ask that Cape Wind reconsider

11 this site and preserve the pristine beauty of

12 Cape Cod. By delaying only another year or

13 two and correcting your DEIS, perhaps better

14 technology and alternate sites will come

15 about. Thank you.

16 MR. MOORE: Thank you.

17 MR. NELSON: No. 80 my name is Tom

18 Nelson. I live in the Town of Barnstable.

19 I've lived here for over 30 years, where I've

20 raised my family. I was not expecting to

21 speak this evening, but I'm very happy to.

22 Thank you for your time.

23 We've heard over and over tonight,

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1 we've heard from people that are for wind
2 power and wind power now. I think if you poll
3 everybody that's here tonight, hands would go
4 up 99.9 percent: Everybody is for wind power
5 and yes, we need it now.

6 But what is the common denominator
7 that divides everybody in this room? It's the
8 location. I applaud our town officials for
9 being here tonight, and I was very proud to
10 hear them one after another, who have listened
11 to hours and hours of our townspeople and
12 spending, you know, all of their family time
13 listening to -- you know, coming up with a
14 conclusion of what the townspeople from the
15 Cape want.

16 They all said it one after another:
17 Great idea, bad location. And that's the
18 problem. If you want to bring everybody in
19 this room together, change the location. If
20 you change the location, you'll have unanimous
21 support, you'll have everybody behind your
22 project.

23 I'm a contractor; okay? I love to

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1 see contractors make money, especially Federal
2 money to boot. You want to make your money
3 and you want to pull wind together and, you
4 know, let's improve the environment.
5 Everybody spoke passionately about the
6 environment and the icebergs are melting. We
7 all know that; okay? We all want wind power.
8 We all want to see, you know, renewable
9 energy. We all want to get away from oil.

10 The problem here is the location.
11 It is pristine. It's an incredible natural
12 resource. That's the problem. Change the
13 location, you'll bring everybody together, and
14 we'll all move on, and we'll all be very proud
15 of a project that you can all support. Thank
16 you.

17 MR. MOORE: Thank you.

18 MS. HOYT: I'm 81. My name is
19 Holly Hoyt, and I'm a resident of Barnstable.
20 I don't represent any group, and I don't
21 represent any political party. I'm just here
22 because I feel strongly about the issue.

23 I've been a resident, as I said,
24

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1 to be destroyed by an industrial farm? We
2 wouldn't consider doing this in a place like
3 the Grand Canyon or Yellowstone National Park.

4 Our sound is home to thousands of
5 migratory birds. 275 of them migrate through
6 these waters. It's incredibly rich in marine
7 life. It deserves to be preserved. Again I'm
8 for alternative energy sources including wind
9 farms, but why the Cape? There are so many
10 other areas that produce similar velocities of
11 wind. Most of us who live on the Cape chose
12 to live in this location because of its
13 inherent beauty. We moved here away from the
14 hustle and bustle of the large industrial
15 cities to get closer to nature. Why not build
16 the farms in Boston Harbor or somewhere people
17 appreciate the city and its buildings? Once
18 these turbines are built, who will maintain
19 them? Who will bear the costs? What will
20 happen when alternative energy sources prove
21 to be more economical? Who will bear the cost
22 of their removal? Will we allow them to rust
23 away and become an eyesore in an area that was
24

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1 for ten years, and I spend most of my summers
2 here on the Cape. I'm writing today to voice
3 my concern regarding the proposal to put the
4 wind farm in Nantucket Sound.

5 First, I would like to mention that
6 I am in favor, again, like everybody else
7 here, to develop wind farms and cleaner
8 alternatives. However, again, I'm opposed to
9 the location. I grew up in New Jersey, and
10 I'm very fond of my home state. However, I'm
11 disappointed in the lack of protection the
12 environment has been given over the years. As
13 a result, most of the common coastline has
14 been polluted and spoiled by overcrowding and
15 polluted conditions.

16 The Cape and Islands officials, on
17 the other hand, have done a great job and a
18 great deal to limit the industrial growth and
19 have incorporated measures to preserve the
20 beauty of this area. That is why the thought
21 of developing the wind farms in Nantucket
22 Sound seems absolutely absurd. How could our
23 country permit a national treasure like this
24

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1 once considered one of Massachusetts's most
2 beautiful shorelines?

3 It makes we wonder what we'll think
4 when we look at a metropolis of 130 turbines
5 in a once-pristine ocean. Will we regret that
6 we permitted business to come in and permit?
7 Will we get that we didn't get all the
8 information about the project before we gave
9 them the go-ahead? Who are the people who
10 will really benefit from this project? Do we
11 believe that residents of the Cape will
12 benefit? Do we believe that the residents of
13 Massachusetts will benefit? Will our energy
14 costs be that much lower and, if so, for how
15 long and in the end will it be worth it?

16 These are questions we have to ask
17 ourselves. Unfortunately, I, like most, spend
18 most of my time managing my family, household,
19 and business. Most of us do not have a great
20 deal of disposable time or resources. As a
21 result, we fail to take actions against
22 projects such as these not because we're not
23 concerned, but because we don't have the time.
24

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1
2 Despite that, it's not about the wealthy that
3 have waterfront property; it's about us who
4 enjoy and appreciate the Cape's beauty. I
5 urge all residents and interested parties to
6 review the facts and take action. This is our
7 home. Once this project goes, we will --

8 MR. MOORE: It's about time. Thank
9 you. What is your number?

10 MS. DINEEN: 82. Hi. My name is
11 Patty Dineen, and I'm a Realtor. I live in
12 West Yarmouth. I would like to address the
13 property values.

14 The MMS devoted just one paragraph
15 to the possibility of decreased property
16 values. They declared it to be only
17 negligible, stating a potential purchaser
18 would make an offer based on his own values
19 and sense of aesthetics, which may or may not
20 be affected positively or negatively.

21 The MMS completely ignores that
22 those of us who choose to relocate on Cape Cod
23 are united by a similar set of values and
24 aesthetics. We are drawn to the magic of

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1 Nantucket Sound. JFK crystalizes this allure
2 in the following quote: "We are tied to the
3 ocean, and when we go back to the sea, whether
4 it is to sail or to watch, we are going back
5 from whence we came." Our former president
6 and most famous resident of Nantucket Sound
7 captures the spiritual renewal evoked by the
8 endless horizon. To destroy the horizon is to
9 destroy the sense of eternity that renews our
10 spirits and speaks to our souls.

11 Nantucket Sound is a source of
12 wonder and solace no matter the season or time
13 of day. The rise of the full moon is my
14 monthly pilgrimage. The lights from this
15 project, similar to the LaGuardia Airport's,
16 will pollute the sky. No stargazers need
17 apply.

18 It is fair to conclude that these
19 blades of steel will deter those of us who are
20 spiritually tied to the ocean from moving to
21 our villages. The end result will be fewer
22 buyers and lower prices, a devastating blow to
23 the middle class, for whom home equity is its

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1 greatest and often only asset. To quote Joni
2 Mitchell -- I won't sing it -- "Don't it
3 always seem to go that you don't know what
4 you've got till it's gone? They paved
5 paradise and put up a parking lot." Don't let
6 that happen to us. Thank you.

8 MR. MOORE: No. 83? 84? 85? 86?

9 MS. MURPHY: My name is Roberta
10 Murphy. I've lived on the Cape for seven
11 years. I've raised my seven children for the
12 past seven years here. They love the Cape,
13 they love the ocean, they love Nantucket
14 Sound, and we do live on Nantucket Sound now.
15 I'm renting right around the corner from the
16 marina, so I get to see the water. That's not
17 why I'm fighting this. I've been fighting it
18 for seven years.

19 It really distresses me when I see
20 the pain that these poor people from
21 Appalachia are going through. And someone is
22 taking them and exploiting that pain. I get
23 incensed.

24 These wind turbines are made from

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1 carbon fiber. I think we all know where
2 carbon fiber comes from. It comes from coal.
3 The coal mining is not going away. It's the
4 way this country is surviving today. We have
5 our money, money from overseas, all over,
6 Singapore, financing our investment houses.
7 If we didn't have it, we'd be falling into a
8 black hole. We're a house of cards. We need
9 expansion. It's not going to go away.

10 But we do have laws that protect
11 us. We need to be able to rest on those laws.
12 Unfortunately, the laws are used against us.
13 We initially required from Mr. Gordon a test
14 tower be put into Nantucket Sound to measure
15 the wind velocity and other things. I'm
16 sorry, I'm getting a little upset about this.
17 The Army Corps of Engineers in their original
18 DEIS used not the test-tower figures, but
19 figures from Horns Rev in Denmark. At the
20 time we were really irate. I spoke about it
21 at MIT.

22 And then it was decided that you
23 would take over the study. So we expected to
24

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1 see something different, when in fact it
2 wasn't different. They were the same figures.
3 They were not figures from Nantucket Sound.
4 How does this happen?

5 So I've been digging and
6 researching. There is a case, a suit that we
7 brought, against Cape Wind that ended up
8 exempting the figures from the test tower from
9 the study. Does anyone know that? Do we know
10 that everything is based on other
11 statistics -- other measurements?

12 So the study there is at fault.
13 The exemption of the test tower is a mistake.

14 MR. MOORE: It's about time.

15 MS. MURPHY: Thanks for letting me
16 speak.

17 MS. REID: Good evening. My name
18 is Sue Reid. I'm a staff attorney and
19 director of the Massachusetts Clean Energy and
20 Climate Change Initiative at Conservation Law
21 Foundation. CLF is New England's oldest
22 regional environmental advocacy organization,
23 with an unparalleled record of success in
24

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1 of comments on both sides of the debate
2 tonight. It touches piping plovers, roseate
3 terns, our beloved beaches, and humanity
4 itself.

5 Since the Cape Wind project was
6 first proposed, the need for moving forward
7 with responsible clean energy projects like
8 this has only increased dramatically. During
9 this time the scientific community has issued
10 a clarion call for action to address climate
11 change. The Nobel Peace Prize laureate
12 Intergovernmental Panel on Climate Change,
13 comprised of scientists throughout the world,
14 released a report in 2007 finding that global
15 warming is unequivocal, as evidenced by
16 increasing temperatures, melting ice, rising
17 sea levels, and impacts measured across all
18 continents and our oceans. The IPCC report
19 also importantly found that greenhouse gas
20 emissions have shown a marked increase as a
21 result of human activity, including through
22 the generation of electricity from fossil
23 fuels, such as is done in nearby Sandwich and
24

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1 terms of protecting marine interests and
2 natural resources.

3 In connection with our work on
4 global warming, the most pressing
5 environmental threat of our generation, we
6 have worked extensively to review and weigh in
7 on a number of clean energy solutions,
8 including Cape Wind.

9 Cape Wind's 130 turbine proposal
10 for Nantucket Sound is one of our nation's
11 most promising clean energy projects. Once
12 built, it will immediately deliver
13 emissions-free wind-generated power to tens of
14 thousands of Massachusetts residents. As
15 such, it is critically important that MMS more
16 fully consider the compelling and overarching
17 context of climate change as it reviews this
18 project.

19 There has been much exaggeration
20 and alarmism tonight that we've heard. Well,
21 it's hard to overstate the problem of climate
22 change. It touches everything, all of the
23 natural resources that have been the subject
24

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1 Somerset.

2 Right here in Massachusetts the
3 Union of Concerned Scientists echoed this call
4 in their own report of the Northeast climates
5 impact assessment, pointing to wind energy as
6 one of the most attractive clean-energy
7 alternatives we have. And the UCS's concerns
8 were furthered most recently just a couple of
9 weeks ago with the U.N.'s report on
10 climate-change effects to our oceans. Expert
11 economists, such as last year's Stern Review
12 on the Economics of Climate Change, have
13 furthered these concerns in a call to action
14 now. We can manage the environmental and
15 economic impacts of global warming if we act
16 now.

17 In addition, atmospheric
18 concentrations of CO₂ have continued to
19 accelerate while this project has been
20 pending, so we therefore strongly urge MMS to
21 fully consider the context of climate change
22 and the environment on the project. Thank
23 you.
24

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MR. MOORE: 101.

MS. DANNER: Yes to wind power. My name is Claude Danner. I am a resident of South Yarmouth, and I've owned a home on Cape Cod for the last 30 years. I'm an electrical engineer, and I worked for IBM for 31 years in research and development of large systems, computer systems.

My expertise is in the field of reliability and availability. That translates to backup systems and continuous 24-by-7 online usage. It does apply to the resource to create clean energy.

We need multiple forms of energy, to warrant a fair cost and continuous availability. Fair cost, that is the financial advantage that multiple sources, including local and national ones, will make us less dependent on foreign oil and the oil market price. Continuous availability is the renewable and ecologic advantage Cape Cod can and will offer, which produced wind in high amount and often. But other fringe benefits

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trustee of the Yarmouth Conservation Trust, and chairman of at least five land-acquisition committees and recipient of the Paul Tsongas Environmental Recognition Award.

I am also a long-time resident of Cape Cod and Islands, Realtor of the Year and have sold thousands of houses on Cape Cod. I'm also an avid boater who, like most Cape Cod residents, enjoy our pristine beaches and seascapes, which by the way is why the majority of residents and tourists come here. I greatly appreciate the pristine waters of Nantucket Sound in my 23-foot boat. And no, I'm not one of the mansion-and-yacht set proponents like to criticize.

I, like most people, think wind power is a great idea. It really is. I understand global warming. It's a terrible situation, and it needs to be dealt with. But as we've all talked about and heard tonight, there are other places to put this.

This project has a near endless number of faults. For starters, it's going to

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of the wind power may become essential: the creation of new challenging and well-paid local technical jobs and new targets of interest to bring additional tourists.

Europe has embraced wind power everywhere, not only in Denmark, but all over Spain, France, and Germany. I saw it, and it works.

Tonight I just heard too many cowards. Tonight they say they want wind power, but just not here. That's cowardly. We need wind power here and now, not the subject of the forever, polemic political discussion, but a real plan of action. Let's do it.

MR. MOORE: You're next.

MR. MARTIN: 96. Dick Martin, from South Yarmouth as well, and I'm not a coward. Good evening. First is to Cape Wind opponents: I'd like you to know that I am truly an environmentalist and have been partially responsible for conservation purchases in my town of over 2,000 acres,

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cost every one of us money. Cape Wind itself has now admitted that the electricity it produces will in fact cost two to three times the current price of electricity on the Cape. We presently are paying the developers millions of dollars in subsidies for alternative energy research to develop the proposal and will continue to subsidize the construction by mostly off-Cape sources and operation of the development. While shutting down the existing land-based fossil fuel power stations is an exemplary goal, this will in fact not happen and will usefully be curtailed marginally, if at all. Most of our airborne pollutants actually come from New York and New Jersey.

Giving away for free our pristine heritage and our marine environment for the main purpose of making a rich developer richer is an insult to Cape Cod's development and Cape Codders. The developers have other options, such as deep-sea locations, or, God forbid, private property, which they could

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1 acquire anywhere in the New England grid area
2 to construct such a power plant.

3 Cape Wind's own new ads say things
4 like it's not about the view, it's about the
5 vision, thereby admitting our priceless views
6 will in fact be forever compromised by 130 of
7 the highest turbines -- 44 stories, higher
8 than at any other point on Cape Cod -- ever
9 constructed anywhere. Those of us who love
10 Cape Cod for these magnificent water views,
11 sunsets, horizons and sailboats will find them
12 compromised by this clutter of wind towers,
13 truly scarring the horizon and the shore. The
14 huge maintenance substation will loom like a
15 monstrous skyscraper at sea, full of oil and
16 lubrication and chemicals. Thousands of
17 blinking lights at night will mar the sea and
18 moonscape and look like a giant landing field.
19 Helicopters and service boats will travel back
20 and forth to service the units, thereby adding
21 to fossil-fuel usage.

22 I guess I'd just like to say that
23 isn't the place. There are plenty of good
24

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1 spots for it. Put it somewhere else. We all
2 love clean power. But make it not in our
3 cherished Nantucket Sound.

4 MR. DYETT: No. 101. My name is
5 Granger Dyett. I'm not associated with any
6 group. I'm just a resident of Yarmouth.

7 As I understand it, Cape Wind's a
8 private company and therefore gets into
9 business for the sake of making a profit. And
10 to do so, it has to sell whatever it's making
11 to the public, without being able to bend
12 their arms behind it and force them to buy.
13 It has to sell a new source of a commodity
14 into an already satisfied market, which means
15 that it will lower prices. It can't help but
16 do that.

17 It's economically impossible for a
18 private company to come up with a new product
19 to try to sell it and force people to buy it
20 for more than the going rate. So anyone who
21 said that it's going to increase electric
22 costs is blowing hot air, because nobody is
23 talking about it. It's fiscally impossible.
24

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1 Secondly, if you don't get your
2 electricity from the wind, you'll be getting
3 it from another source. Whatever that source
4 might be, it's going to be dirtier than wind.
5 So no matter how little or how much
6 electricity Cape Wind eventually generates, it
7 has to sell it all, because it can't sit on
8 its fuel and wait for prices to rise.
9 Whenever it can grab the wind, it generates
10 electricity. Whenever it does that, it has to
11 sell it, no matter how low the price. So even
12 in the market condition where no other
13 generating ability could possibly lower prices
14 because fuel is too expensive, they'll still
15 be lowering prices because they're pushing the
16 commodity onto the market. It has to sell.
17 They can't sit on the wind and wait for later.
18

19 Thirdly, I personally would like to
20 see something that makes me proud to be a
21 Yankee, proud to see that we're not just
22 blowing a lot of hot air here in the United
23 States, not just complaining about the Middle
24 East charging what it charges for oil, but

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1 actually doing something about it. When I see
2 that installation, it will fill my heart with
3 pride and joy, and I will not consider it an
4 eyesore, I will consider it an icon. That's
5 all I have to say.
6

7 MR. MOORE: We have time for one
8 more person. 102? 103? 104? 105? 106?
9 107? 108? 109? 110? 111? 112? 113? 114?
10

11 MS. GRAF: Thank you for the
12 opportunity to provide comments to the Draft
13 Environmental Impact Statement to the Cape
14 Wind project. My name is Kristen Graf. I'm
15 the final speaker, maybe, and I'm the energy
16 researcher in the clean energy program of the
17 Union of Concerned Scientists, the leading
18 science-based nonprofit working for a healthy
19 environment and a safer world.

20 Cape Wind must be viewed within the
21 context of our growing and solid understanding
22 of the significant challenge that global
23 warming poses to this region and our nation.
24 Last July, as Sue mentioned, UCS, in
collaboration with over 50 scientists and

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1
2 economists, released a report entitled
3 Confronting Climate Change in the U.S.
4 Northeast. Findings of particular concern
5 from this report for the Cape Cod region under
6 a higher-emissions scenario include increased
7 frequency and severity of storm surges and
8 coastal flooding -- we are already seeing
9 property insurers backing out on the region;
10 warmer winters that do not provide the minimum
11 chilling requirements for important fruit and
12 berry crops, including cranberries; cod and
13 lobster populations in significant decline due
14 to warming waters, with cod disappearing
15 completely from the waters south of Cape Cod
16 during this century.

17 This report also shows that the
18 majority of the consequences are avoidable.
19 We have a choice in the emissions path we take
20 and in the extent and effect of climate
21 change. The proper and timely implementation
22 of projects like Cape Wind is an important
23 piece of the path to a more stable climate,
24 part of our broad array of solutions from many

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1 rising natural-gas prices.
2
3 We urge the Minerals Management
4 Service to continue toward the final review
5 without any further delays and to take into
6 consideration the conclusion of the Northeast
7 Climate Impact Assessment, which says, "Global
8 warming represents an enormous challenge, but
9 we can meet it if we act swiftly." The
10 emissions choices we make today in
11 Massachusetts, the Northeast, and globally
12 will shape the climate of our children and
13 grandchildren. The time to act is now.

14 MR. MOORE: Thank you all. It's
15 two minutes to midnight. Before we turn into
16 a pumpkin, let me mention one other thing.
17 Those of you who did not get a chance to speak
18 tonight, we strongly encourage you to either
19 put something in the comment box -- you can
20 send it by snail mail to MMS, and the
21 addresses are out there -- or you can send it
22 by email.

23 Also, there are three other
24 meetings, so both on the two islands and then

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1 sectors, including energy efficiency. No
2 single solution alone will get us there, but
3 each piece will get us closer.

4 It is significant that one project
5 alone would reduce New England carbon dioxide
6 emissions from the electricity sector by
7 880,000 tons, or 1 percent overall. This is
8 roughly equivalent to taking 130,000 cars off
9 the road and represents some of the greatest
10 supply-side emissions reductions yet proposed
11 from a single project.

12 Projects like Cape Wind also offer
13 significant potential financial benefits to
14 our region. Like other renewable energy
15 projects with no fuel costs, Cape Wind will be
16 accepted first to cover hourly electricity
17 demand. In supplying approximately 1600
18 gigawatthours per year into New England's
19 electricity spot market, Cape Wind will push
20 more expensive sources out of the picture,
21 directly reducing emissions from our other
22 sources, while at the same time reducing our
23 energy bills and providing a hedge against
24

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1 Boston. So if you did not get a chance to
2 speak tonight and you are planning to attend
3 one of those other meetings, please check with
4 me.

5 AUDIENCE MEMBER: May I have a show
6 of hands to see how many other people are
7 planning to speak?

8 (Discussion off the record.)

9 MR. MOORE: We can't stay because
10 we have both contracted the school and we have
11 a limited capacity for keeping your
12 information in the record.

13 Let me ask you: Are any of you who
14 are planning to speak thinking about going to
15 the meeting either in Boston or on the
16 Islands? If you are going to Boston and
17 Islands and you have your number, come up and
18 see me.

19 Thank you all for your commitment,
20 endurance tonight, and all of your comments.
21 Bob, did you want to make any final statement,
22 or Rodney?

23 MR. CLUCK: I just wanted to say
24

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1 that the next step -- it's up on the screen
2 here -- we'd like to consider all the
3 comments, and then we'll incorporate them into
4 the draft EIS. This is the address on the
5 website up here. In addition to that, you can
6 send the comments you submitted today, you can
7 also send these comments in. Once again, the
8 comment period is going to close on April
9 21st.

10 (12:00 a.m.)
11
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24

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REPORTER'S CERTIFICATE

1 I, Alan H. Brock, the officer
2 before whom the foregoing proceedings were
3 taken, do certify that this transcript is a
4 true record of the proceedings on March 10,
5 2008.
6
7
8
9
10

11 _____
12
13 Alan H. Brock, RDR, CRR
14
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\$	<p>100-by-200-foot [1] - 13:14</p> <p>101 [2] - 270:2, 275:5</p> <p>102 [1] - 277:8</p> <p>103 [1] - 277:8</p> <p>104 [1] - 277:8</p> <p>105 [1] - 277:8</p> <p>106 [2] - 239:2, 277:8</p> <p>107 [1] - 277:9</p> <p>108 [2] - 190:20, 277:9</p> <p>109 [1] - 277:9</p> <p>11 [2] - 107:16, 111:6</p> <p>110 [1] - 277:9</p> <p>1100 [2] - 98:3, 149:12</p> <p>111 [1] - 277:9</p> <p>112 [1] - 277:9</p> <p>113 [1] - 277:9</p> <p>1130 [1] - 126:3</p> <p>114 [1] - 277:9</p> <p>118 [1] - 104:5</p> <p>11:00 [1] - 45:22</p> <p>11th [1] - 72:10</p> <p>12 [4] - 107:16, 235:17, 244:13, 245:13</p> <p>12.2 [1] - 243:3</p> <p>12.5 [1] - 243:13</p> <p>1200 [1] - 205:3</p> <p>122 [1] - 72:3</p> <p>12866 [1] - 137:11</p> <p>12:00 [1] - 282:11</p> <p>13 [4] - 13:12, 107:16, 114:8, 227:19</p> <p>130 [10] - 78:19, 130:20, 132:3, 182:3, 193:21, 199:22, 235:20, 261:5, 267:10, 274:7</p> <p>130,000 [1] - 279:9</p> <p>135 [1] - 140:15</p> <p>138 [1] - 13:13</p> <p>14 [5] - 107:16, 114:9, 119:11, 179:3, 189:10</p> <p>1400 [1] - 147:20</p> <p>15 [6] - 34:12, 90:3, 105:6, 114:9, 119:11, 154:22</p> <p>15,000 [1] - 211:17</p> <p>15-minute [2] - 103:9, 191:22</p> <p>15-year [1] - 133:5</p> <p>16 [3] - 3:3, 114:9, 119:11</p> <p>16-to-20-foot-diameter [1] - 13:17</p> <p>160 [2] - 163:11,</p>	<p>239:2</p> <p>160,000 [1] - 78:10</p> <p>1600 [3] - 147:18, 147:20, 279:18</p> <p>1606 [1] - 211:16</p> <p>17 [4] - 35:15, 67:23, 71:16, 119:11</p> <p>170 [1] - 190:6</p> <p>18 [2] - 119:11, 147:18</p> <p>180 [2] - 196:4, 201:3</p> <p>19 [1] - 125:2</p> <p>1960 [2] - 31:22, 96:13</p> <p>1977 [1] - 224:12</p> <p>1983 [1] - 9:23</p> <p>1990 [2] - 178:13, 229:12</p> <p>19th [1] - 112:13</p>	<p>179:4, 187:14, 189:15</p> <p>21st [4] - 11:21, 18:19, 119:17, 282:10</p> <p>22 [3] - 137:3, 147:19, 184:6</p> <p>23 [5] - 95:8, 137:3, 141:16, 161:21, 163:8</p> <p>23-foot [1] - 272:14</p> <p>24 [8] - 130:20, 135:8, 137:3, 141:16, 144:11, 196:3, 244:8, 244:10</p> <p>24-by-7 [1] - 270:12</p> <p>24/7 [1] - 115:16</p> <p>24/7/365 [1] - 148:12</p> <p>240,000 [1] - 78:11</p> <p>2400 [1] - 153:5</p> <p>25 [10] - 13:16, 52:22, 81:8, 88:5, 90:3, 133:4, 141:16, 147:22, 232:11, 235:16</p> <p>25,000 [1] - 87:10</p> <p>25-megawatt [1] - 159:23</p> <p>25-square-mile [1] - 221:24</p> <p>250-something [1] - 7:15</p> <p>2500 [2] - 100:24, 139:24</p> <p>26 [4] - 141:16, 149:20, 186:11, 213:17</p> <p>27 [3] - 140:13, 148:23, 149:20</p> <p>275 [1] - 260:6</p> <p>28 [5] - 45:2, 141:17, 147:19, 152:19, 245:10</p> <p>29 [4] - 102:13, 152:19, 154:19, 155:24</p> <p>290 [1] - 44:18</p>	<p>240:11, 251:2, 256:20, 270:6</p> <p>30-minute [1] - 35:21</p> <p>30-second [1] - 229:21</p> <p>300 [2] - 95:22, 195:2</p> <p>300,000 [2] - 26:7, 153:21</p> <p>309 [1] - 113:12</p> <p>31 [4] - 154:19, 158:5, 158:6, 270:7</p> <p>32 [4] - 147:20, 154:19, 158:5, 160:19</p> <p>33 [2] - 158:5, 164:14</p> <p>3300 [1] - 192:11</p> <p>34 [2] - 158:5, 167:14</p> <p>34-knot [1] - 153:6</p> <p>35 [3] - 158:5, 255:19, 256:8</p> <p>36 [2] - 158:6, 173:13</p> <p>37 [5] - 136:2, 173:13, 175:4, 177:9, 213:17</p> <p>38 [6] - 175:4, 177:9, 200:17, 201:5, 256:6</p> <p>39 [1] - 177:10</p>	
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