

Volume 1, Pages 1-224

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

Public Hearing
Tuesday, March 11, 2008
5:01-8:55 p.m.
Nantucket High School
10 Surfside Road
Nantucket, Massachusetts

Cape Wind Energy Project - March 11, 2008

1 MR. MOORE: It's about 5:00. If
2 you would find your seats, we would like to
3 get started with the hearing for this evening.
4
5 Good evening, everyone. My name is
6 Chris Moore. I am with a private firm called
7 CDR Associates, and my colleague, Jennifer
8 Graham, and I are here as an independent
9 facilitator firm to facilitate the meeting
10 this evening. So I would like to welcome all
11 of you here, and I recognize a lot of faces,
12 folks who were over at the meeting in Yarmouth
13 last night. I am glad to see you all again,
14 and also for all the folks from Nantucket, who
15 have come to the meeting and decided to spend
16 some time this evening talking about a pretty
17 important issue.
18 So to begin, what I'd like to do is
19 to talk just a little bit about the hearing
20 and then I'll turn it over to the MMS, who
21 will talk a little bit about the Cape Wind
22 Project.
23 This hearing, I think, is an
24 important part of the public involvement

Cape Wind Energy Project - March 11, 2008

1 process, and it gives all of you a chance to
2 have input on this proposed Draft
3 Environmental Impact Statement.
4
5 Your input is valuable. It's one
6 that the agencies will use to assess the
7 adequacy of what they've done, where they need
8 to make some changes before they go ahead and
9 do a final environmental impact statement.
10 And they will talk a little bit about that
11 process.
12 So your input tonight is important.
13 It's your meeting, it's your chance to talk to
14 the MMS, and to provide them with your views
15 on this proposed project. So let me say a
16 little about my and MMS's role tonight and
17 Jennifer, my other colleague, to help you have
18 the best meeting it's possible to have.
19 We had a real good one last night.
20 One of the things that I think was really
21 helpful was the civility, the conciseness and
22 the ability to really state their views in a
23 way that really helps. So I hope we will have
24 the same kind of meeting tonight. So my role

Cape Wind Energy Project - March 11, 2008

1 is to help make the meeting move as quickly as
2 it possibly can and be as effective as we can.
3 Mineral Management's role is to listen
4 tonight, because you're the people who are the
5 speaker, not them. They have done a lot of
6 research, but it's their turn to hear from
7 you.
8
9 Let me say just a little bit about
10 logistics before we talk about the actual
11 meeting process, and talk a bit about meeting
12 guidelines. First of all, we will be going
13 for five hours. We will have a break after
14 about the first two hours, so that people can
15 use the restrooms and do whatever you need to
16 do.
17 For those of you who need
18 restrooms, there are two locations for the
19 restrooms. One is you go out in the hall that
20 you came in, go down to the center of the
21 school and off to the right, and you will see
22 men's and women's restrooms. If those are
23 full, go down a little farther. That first
24 hall that you can turn to the left, you will

Cape Wind Energy Project - March 11, 2008

1 go by the gymnasium. And as soon as you pass
2 the glass, there are double doors. You could
3 go through there and they are past the boys'
4 and girls' locker rooms and there are also
5 facilities that are there. There are also
6 drinking fountains.
7
8 Exits, if we need to get out
9 quickly for some reason, a fire alarm or
10 whatever, these doors, and you could also go
11 out these doors. And they will take you out.
12 And the exit signs are in the back.
13
14 One other question. Does anyone in
15 the audience have EMT training? So if you do,
16 okay, we'll look to you if we need some help,
17 so that's important to know. So I think those
18 are the major things we need to know as far as
19 logistics. So let me talk about the meeting
20 itself.
21
22 The meeting is for you to talk; it
23 is not primarily a question and answer
24 session. So if you have a question that you
25 want answered, fill out one of the forms, drop
26 it in the box up here, and Mineral Management

Cape Wind Energy Project - March 11, 2008

1 will get back to you on your question.

2 It is a multiple way to have input.

3 You could talk here; you could go to one of

4 the other meetings; you could send in

5 information, which we will put up on the

6 screen in just a minute. Actually, we can

7 actually go to that right now. You can send

8 in information.

9 And I might mention, and we

10 encourage you to tell your friends, that the

11 location for the meeting, and if we could go

12 back, in Boston has been changed because we

13 have gotten a larger venue. We had 900 people

14 at the meeting last night, and the venue that

15 we had planned for in Boston was essentially

16 equivalent. So we've got a bigger place. So

17 it has been changed. So it will be at the

18 Clark Leonard Athletic Center Gym. So let

19 your friends know.

20 You could also send in by e-mails

21 or written comment. There are a lot of ways

22 to make your voice known to MMS. Your input

23 is valuable.

Cape Wind Energy Project - March 11, 2008

1 Let me mention a little bit about

2 good public hearings. I would like to know,

3 how many of you have been to a town meeting

4 before? Raise hands.

5 Okay, you have all been to town

6 meetings or most of you.

7 What makes a good town meeting? If

8 you wanted to have your own guidelines or

9 ground rules for a town meeting that worked

10 well for you, what would you want.

11 AUDIENCE MEMBER: Speak with

12 brevity.

13 MR. MOORE: All of you heard that,

14 speak with brevity. What else? What else

15 makes a good town meeting?

16 AUDIENCE MEMBER: Be able to hear

17 everybody.

18 MR. MOORE: Everybody gets a chance

19 to speak.

20 AUDIENCE MEMBER: A moderator.

21 MR. MOORE: If you have a

22 moderator, the moderator is working for you.

23 AUDIENCE MEMBER: Respect.

Cape Wind Energy Project - March 11, 2008

1 MR. MOORE: So a degree of respect.

2 That is very helpful. Any others?

3 AUDIENCE MEMBER: Shut off the cell

4 phones.

5 MR. MOORE: You must have read our

6 mind, right. Actually, I'm going to turn mine

7 off, too, right now, okay? So, if you haven't

8 done it you might turn yours off. We have

9 some other guidelines, most of which you

10 probably mentioned yourself, so if you could

11 flip them up to the guidelines here.

12 Turn off your cell phones and

13 pagers. Maintain civil, respectful behavior,

14 which you already mentioned. Listen

15 attentively to what's being said. Allow your

16 fellow citizens to present their views in an

17 uninterrupted manner. Avoid side

18 conversations to the extent possible and use

19 the breaks.

20 Refrain from cheering or

21 applauding, and that's the hardest one,

22 because I know you want to support folks who

23 are expressing the same views as you. And

Cape Wind Energy Project - March 11, 2008

1 avoid making derogatory remarks and aside

2 conversations to the greatest extent possible.

3 If you need to talk to colleagues, go outside.

4 Use the breaks to discuss the issue.

5 Let me mention one other thing.

6 Last night, because there were a lot of

7 speakers, we didn't get through every one. We

8 will try to do that tonight, but it requires

9 focus and staying within time limits. The

10 time limits are, for elected officials, they

11 have five minutes. They represent larger

12 groups of people. Individual citizens, each

13 of you get three minutes. And I will put up

14 a, essentially, a traffic light up here that

15 will show green to go; yellow, you've got 30

16 seconds; and red, it's time to stop. And I

17 will ask you to stop at your time limit,

18 because I want to let everyone speak who

19 possibly could tonight.

20 So I think that is probably enough

21 about the general guidelines. And so what I

22 would like to do is to turn it over to MMS,

23 and to have them talk a little bit about the

Cape Wind Energy Project - March 11, 2008

1 background of the DEIS and MMS, and what the
2 overall process is.

3 So, Bob?

4 MR. LaBELLE: Thank you, Chris.

5 Good evening, everyone. Thank you
6 very much for taking the time and making the
7 effort to come out and give us your thoughts
8 and opinions on the Draft Environmental Impact
9 Statement. I am Bob LaBelle, Associate
10 Director for Offshore Energy and Mineral
11 Management, MMS, and we would like to, in the
12 interest of brevity, just give you a quick
13 synopsis of what MMS does.

14 We are an agency that was created
15 in 1983. We are small, but we manage the
16 offshore oil and gas program, which is quite
17 extensive, involving Mexico and is growing in
18 Alaska. And we also have some facilities in
19 southern California.

20 We also are responsible for leasing
21 offshore sand resources for beach nourishment,
22 for example, and we are also responsible for
23 handling the royalties.

Cape Wind Energy Project - March 11, 2008

1 Next.

2 In 2005, the Energy Policy Act gave
3 us authority for regulating alternative energy
4 projects -- you could see they are listed here
5 -- offshore in federal waters. Federal
6 waters run from three miles off the coast of
7 Massachusetts. And you will see, we are
8 looking at wind, wave, ocean current energy.

9 Next.

10 Again, this is my name. I want to
11 introduce Maureen Bornholdt, who is your
12 program manager from Alternative Energy
13 Programs, MMS; and Dr. Rodney Cluck, who is
14 the Cape Wind Project manager, and Rodney is
15 the one who has been most involved with this
16 particular Draft Environmental Impact Study.

17 Next.

18 The purpose of the EIS process is
19 that it's a process, and it, it's a public
20 process, and so this input we are receiving
21 through public meetings like this, commenting
22 on paper, or writing in comments, is key to
23 the whole system, and we want to use the

Cape Wind Energy Project - March 11, 2008

1 information to inform decisionmakers on
2 particular projects. And also, if the
3 decision is to go ahead, to identify
4 reasonable ways to mitigate some of the
5 impacts and monitor some of the activities.

6 Next.

7 So we are looking for your comments
8 on the DEIS, Draft Environmental Impact
9 Statement. We are looking for your issues of
10 concern, and identification of these
11 mitigation and monitoring measures, and any
12 additional other environmental information
13 that you feel has not been significantly
14 characterized in the draft document.
15 Remember, this is a draft. We will look at
16 all the comments, which Rodney will talk
17 about.

18 Next.

19 And just for a moment I wanted to
20 talk just on the point that this EIS is not
21 the end of the process. After the DEIS, any
22 potential opposition, if the project is
23 approved, would go through the additional

Cape Wind Energy Project - March 11, 2008

1 provisions, things like rentals, and return
2 from the project, decommissioning, the taking
3 the structures out, for which we require the
4 operator to be bonded, to have money to take
5 things out when they are, when they should be
6 removed.

7 Financial assurance I just
8 mentioned, revenue-sharing with the state,
9 which 27 percent is the law. And of course
10 ensure safety and environmentally sound
11 operations. For example, if the project were
12 to be approved, a response plan with the Coast
13 Guard would have to be developed.

14 Next.

15 Again, beyond the DEIS, but any
16 projects we would approve require a detailed
17 plan on site assessment, people on call during
18 this project, operation, decommissioning. To
19 accomplish this we would have periodic
20 inspections; people going out there and
21 looking at how well the project is doing.
22 Does it make any sense, safety sense,
23 environmental protection sense. We require a

Cape Wind Energy Project - March 11, 2008

1 lot.

2 So the EIS is not final say on how
3 some of these issues are dealt with.

4 Next.

5 So important for me commenting on
6 the Draft EIS, we would like your comments; we
7 welcome them. If you don't speak, please
8 leave a comment or get on-line to do so.

9 And with that, I will introduce Dr.
10 Cluck who will talk a little bit about the
11 specific Cape Wind Project.

12 DR. CLUCK: Thank you, Bob.

13 I'm Rodney Cluck and I am the Cape
14 Wind Project manager.

15 Can everyone hear me out there?

16 Okay. First of all, I want to say
17 that to aid in the development of the Draft
18 Environmental Impact Statement, he hired, MMS
19 hired TRC Environmental Corporation to help us
20 to do that, to aid in the process of this.

21 This open comment period and the
22 public comment, in fact, is one of the
23 actually most enviable parts of this to me,

Cape Wind Energy Project - March 11, 2008

1 because it allows all the work to be done for
2 the people to comment on all the information
3 that is put together.

4 With that said, let me just give
5 you a rundown of the project itself. The
6 project is located in Nantucket Sound, along
7 Horseshoe Shoal, as most of you know, about
8 six and a half, seven miles from Cape Cod,
9 nine miles from Martha's Vineyard, 13 miles
10 from Tuckernuck Island, 468 megawatts.

11 Next.

12 130 turbines, over 400 feet above
13 water. 16 to 18 foot diameter monopiles. We
14 have 33 kilovolt inner-array cables and you
15 have two 115 kilovolt strand mixed cables
16 running along Horseshoe Shoal. This is the
17 bay area.

18 Next.

19 In order to assess alternatives to
20 the proposed Horseshoe Shoals, we developed a,
21 a lot of criteria to try and screen
22 alternative sites. These criteria included
23 things like wave height. They include water

Cape Wind Energy Project - March 11, 2008

1 depth, current technology that is available,
2 substrate, the seabed; things like that are
3 factors when putting the wind farm in.
4 Transmission line distance, minimum wind
5 speed. Again, technology available or not.

6 We also have a limited economic
7 analysis to look at the relevant economic
8 programs among alternatives.

9 And this is essentially what we
10 come up with here. In the green we have
11 proposed action, Horseshoe Shoal; the red is
12 the smaller alternative, which would be 65
13 turbines as opposed to the 130. We also
14 looked at phased development, which is Phase I
15 and Phase II, where 65 turbine generators
16 could go in, and then those would be monitored
17 for environmental impacts and other types of
18 effects.

19 Then there's Phase II, and
20 depending on what we find out from Phase I, we
21 looked at a condensed phase, which is also
22 available, which is just a smaller footprint,
23 essentially. And there is the alternative

Cape Wind Energy Project - March 11, 2008

1 Monomoy Shoals, and the orange is south of
2 Tuckernuck Island.

3 Next.

4 In order to determine impacts, the
5 impact-producing factors, we set out a series
6 of impact-producing conditions from routine
7 and non-routine activities. We looked at a
8 whole host of factors; everything you could
9 possibly think of. But I thought I would give
10 you an example of a few here just to put in
11 your head how we do it.

12 Always we look at projects from the
13 construction phase of development, operation
14 and decommissioning. But for example, a
15 routine impact, noise and vibration factors,
16 construction noise and vibration factors, put
17 it in one column. Non-routine is oil and fuel
18 spills. During operation, routine impact is
19 if we found scour on the foundation.

20 Non-routine would be if a monopile collapses.

21 During the decommissioning, seabed
22 site clearance -- somebody talked about
23 decommissioning. We were doing everything we

1 Cape Wind Energy Project - March 11, 2008

2 could think of, everything we have. So seabed
3 site clearance is a routine part of activities
4 and if there are two vessels while doing it
5 that ran into each other, that would be
6 non-routine.

7 Next.

8 We then took impact levels that I
9 mentioned, which is assigned to different
10 resource areas, so you will understand the
11 impact is negligible, no measurable impact;
12 it's minor, the resource will recover
13 completely. If it's moderate, that means it
14 will recover, but you are going to have some
15 mitigation involved. And if it's major, the
16 resource would not recover even with
17 mitigation.

18 Next.

19 Most impacts we found were
20 negligible or minor. The moderate impacts we
21 did find are here and those are in
22 mitigation, and we will continue to do that in
23 working with our agencies for the final say.
24 Those are avifauna, marine birds, during

1 Cape Wind Energy Project - March 11, 2008

2 bit about the speakers and the way that we do
3 it efficiently. We had some suggestions at
4 the meeting last night, so we are going to try
5 something a little bit different tonight.

6 First, our first speakers are
7 publicly elected officials and they will have
8 five minutes; and I will give their names and
9 have them come down so they are here on the
10 dais. Then as soon as you, all members of the
11 public, have an opportunity to speak, what I
12 would like to do is to call six people.

13 You'll note on this side is the odd
14 numbers and this side is the even numbers. So
15 one, three, five, two, four, six will be here.
16 And what I would like you to do is to come up
17 and to, if there are seats that are available,
18 or there are some over here, just go ahead and
19 sit down. But I would like to make sure that
20 we have at least three people up here. When
21 your number, you see number 6 goes, Number 7
22 go over there, and Number 8 go over there. So
23 we always have somebody waiting and that means
24 we could go quickly and not have transfer time

1 Cape Wind Energy Project - March 11, 2008

2 construction and phases of the development.
3 Fisheries, during construction. Marine mammal
4 impacts that occur during construction and
5 operation, moderate impacts were visual. You
6 will be able to see it. Major impact is in
7 close proximity. Of course if you arrived
8 during construction, it would be a large
9 visual impact.

10 Competing uses. At regattas,
11 during races, you might have to detour or
12 avoid the operation, and vessel operations
13 sailing inside the wind park would be moderate
14 impact, especially in times of heavy fog.

15 Next.

16 The time line again, as Bob
17 mentioned, the time periods, April 21st
18 comments due. Public hearings are now, and
19 the final, projected Final EIS would be fall
20 of 2008. Record of decision 30 days after
21 that. I guess that's it.

22 MR. MOORE: Thank you very much.

23 So now the meeting is yours, so
24 what we would like to do is explain a little

1 Cape Wind Energy Project - March 11, 2008

2 to get to the mike.

3 So I will periodically find out
4 where we are, and make sure you know so you
5 could line up.

6 I just want to mention one other
7 thing, Pat is our court reporter. And being
8 as I think it's important for you to be heard
9 and a record of what you've said, I may ask
10 you to slow down at some point so that she
11 could get everything, so there is a transcript
12 that you could have to keep your thoughts.

13 When you come up, the little card
14 that you had, if you will write your name very
15 clearly on that card, and give it to either
16 Jennifer here, or one of our two colleagues
17 here, raising their hands, and they will take
18 your name and then we will have it accurately
19 up there. We don't want to have it
20 misspelled.

21 So let's start off with your
22 elected public officials, and there are four
23 of them. So we would like to start off with
24 Whitey Willauer, who is the chairman of the

Cape Wind Energy Project - March 11, 2008

1 selectmen, so why don't you go over there.
 2 And we will start also with Michael Kopko.
 3 Michael, if you could go over to
 4 this one. And then to H. Flint Ranney, if you
 5 would come over to this one, and then Al
 6 Peterson, who is from the Nantucket Airport.
 7 Can't read what it says. Manager, I assume.
 8 So Al would come over on this side.
 9 We will have you speak, the four of
 10 you, each of you have five minutes, and then
 11 we will go over to the residents of Nantucket.
 12 Thank you very much.
 13 MR. WILLAUER: Welcome. My name is
 14 Whitey Willauer. I am the chairman of the
 15 Board of Selectmen of Nantucket, and welcome
 16 all of you people of America.
 17 The Board of Selectmen of Nantucket
 18 has not taken a position on Cape Wind, because
 19 it really doesn't directly impact the island.
 20 As a matter of fact, there is no real positive
 21 benefit to Nantucket, because they are beyond
 22 the three-mile limit, and there is some
 23 negative impact, but not a great deal.
 24

Cape Wind Energy Project - March 11, 2008

1 However, we are considering wind
 2 turbines on land in Nantucket, and we've got
 3 ten sites that we are reviewing. And our
 4 first site probably will be at the Waste
 5 Options site in Madaket, or commonly known as
 6 the Madaket Mall. And that we have an RFP out
 7 now to investigate that.
 8 Our problem here is that we are
 9 short of land, so we can't, such as the
 10 Germans, we don't have space enough to have
 11 land-based turbines. So when I heard about
 12 all this I said, well, where would I like to
 13 have turbines in the water base? Well,
 14 certainly not off Siasconset, because that is
 15 some of the best bass fishing in the world.
 16 And I notice you put your site just where our
 17 borrow site would be encased when the
 18 Siasconset Beach Nourishment Project comes on
 19 the line.
 20 Also, we discovered there are quite
 21 a few shellfish there. 20 percent of our
 22 ducks eat out there, and so that is a problem.
 23 However, I would love to see a site off
 24

Cape Wind Energy Project - March 11, 2008

1 Tuckernuck, because Tuckernuck is not where we
 2 navigate; it's not where we sail; it's not
 3 where aircraft move. It's pretty much out of
 4 the way, and we have high average wind
 5 velocities, we could get up to the average
 6 19.2 miles per hour year round. However, the
 7 wave height is fairly high there, and also,
 8 but it's fairly shallow, and as far as
 9 visibility is concerned it won't bother many
 10 people except the people in Tuckernuck, and I
 11 haven't heard that many negative comments from
 12 them.
 13 Then if we did that, we could bring
 14 the power back through Nantucket, and we have
 15 two cables going to the mainland, and these
 16 cables carry 35 megawatts. So since there is
 17 no capability here of storing electricity,
 18 since we don't have the gravity possibility,
 19 we could use these cables as a storage
 20 capability, send our excess capacity to the
 21 mainland, and then we could use the capacity
 22 from Tuckernuck to supply Nantucket and make
 23 Nantucket energy independent.
 24

Cape Wind Energy Project - March 11, 2008

1 It would cost us a bundle. I guess
 2 it would cost about three million dollars per
 3 megawatt, so we are talking about, if we have
 4 a hundred megawatts out there, we would be
 5 talking about \$300 million. And if we could
 6 bring us some nice people to develop that,
 7 that would be nice.
 8 So, in conclusion, I'd like to see
 9 us become energy independent. I don't think
 10 the Cape Wind Project heads us in that
 11 direction, but the site at Tuckernuck would.
 12 And so -- and my, my other vice chairman here
 13 has a different point of view, so you'll get
 14 the alpha and the omega on the Board of
 15 Selectmen.
 16 Thank you very much.
 17 (Applause.)
 18 MR. MOORE: Thank you. It's also
 19 encouraging to have a colleague to speak a
 20 different view, so we would like to hear it.
 21 MR. KOPKO: Thank you. It's
 22 wonderful to be the Omega. Thank you all for
 23 coming. I know this is a long and arduous
 24

Cape Wind Energy Project - March 11, 2008

1 process, and you hear a lot of people say a
2 lot of, I'm sure the same things in a
3 different kind of way, but my name is Michael
4 Kopko. I am on the Board of Selectmen.

5 As Whitey said, the board has not
6 taken an official position on the Cape Wind
7 Project, so I am here speaking for myself, not
8 on behalf of any other board, commission or
9 member.

10 I think I understand a little bit
11 about the opposition to this project, because
12 when it was first proposed I vehemently
13 opposed this project. And there were a lot of
14 concerns that I had about environmental issues
15 and navigational issues and safety issues and
16 all kinds of issues. And as I said, I was
17 vehemently opposed, so I understand those
18 concerns, I think, to an extent.

19 Like everyone else in the room
20 here, I don't think there is anyone here in
21 the room who wouldn't say they are very much
22 in favor of renewable energy generation and
23 clean energy generation. I think we are all

Cape Wind Energy Project - March 11, 2008

1 pretty much in agreement about that.

2 And I wanted to like this project,
3 I really did, but there were a lot of
4 questions. Over the course of a year, a year
5 and a half, I started to find those questions
6 answered to my satisfaction about the impact
7 of the project on the environment and on
8 navigation and such, but what really turned
9 the tide for me was a presentation by some
10 representatives who came here from Denmark,
11 who had built a wind farm not -- I think not
12 quite on the scale of what we are talking
13 about here, but something that I thought was
14 similar enough. And while the gentleman from
15 the power utility said what you would expect a
16 power person, utility person to say, the other
17 gentleman was an official from the government
18 who was in charge of the tourism in that area,
19 and it was a resort area. And he indicated he
20 had also vehemently fought this project since
21 its inception, and fought it through, in and
22 out, and fought it and fought it. By the time
23 he came to speak to us I think it was a year

Cape Wind Energy Project - March 11, 2008

1 and a half to two years into the project being
2 up and running. He was there to say it was
3 the best thing to ever happen to their
4 community.

5 Tourism had increased dramatically
6 simply from people who wanted to come see the
7 wind farm. The threatened environmental
8 catastrophes and navigational catastrophes had
9 not manifested themselves, and it was a real
10 benefit to the community.

11 I am not going to bother you, I'm
12 sure that you heard a lot of people explain to
13 you about the vagaries of the fossil fuel
14 power generation and the atmosphere, and all
15 that other stuff, and I am not going to bother
16 you with all of that because I think we all
17 know about that.

18 But I see this project in a bigger
19 context, in that there are social and
20 environmental and economic and political
21 issues involved with our generation in the
22 world, such that we need to develop renewable
23 energy production, and we need to develop as

Cape Wind Energy Project - March 11, 2008

1 much of it as we can and as fast as we can.

2 And I don't think -- I already talked about
3 the Tuckernuck, because we are exploring other
4 alternatives, and I would not say alternatives
5 to Cape Wind, but adjuncts to Cape Wind,
6 because we need to develop as much alternative
7 energy as we can.

8 And it's not going to replace all
9 the nuclear power plants, it's not a panacea,
10 but every watt that is generated from these
11 resources is not having to be generated by
12 some other type of fuel.

13 So I'm here to speak in favor of
14 this project and I hope you would consider
15 allowing it here, because if not us, who? And
16 if not now, when? I think it's time.

17 (Applause.)

18 MR. MOORE: The colleague from the
19 Steamship Authority.

20 MR. RANNEY: My name is H. Flint
21 Ranney. I'm a Nantucket resident living in
22 Monomoy, and we thank you for coming to
23 Nantucket to listen to the citizens and their

Cape Wind Energy Project - March 11, 2008

1 opinions.

2

3 I am a Nantucket member and current

4 chairman of the Steamship Authority. And

5 though I believe your Draft EIS suggests we

6 have 12 boats a day crossing Nantucket Sound,

7 in fact in the summer between the Hi-Line and

8 the Steamship Authority we operate 46 vessels,

9 passenger and freight, going back and forth on

10 a daily basis between Nantucket and Hyannis.

11 The Steamship Authority carries more than

12 500,000 people in a season.

13 Last night in Yarmouth you had

14 heard a statement from our general manager,

15 Wayne Lamson, expressing concerns about the

16 proposed wind farm's location and its

17 potential effects on navigation in Nantucket

18 Sound. I won't repeat his statement, but I

19 would like to emphasize five key points that

20 the Steamship Authority is concerned about.

21 One, the Coast Guard has not

22 completed their required study of this

23 project, and we believe they should do so

24 before you complete your report. Reducing the

Cape Wind Energy Project - March 11, 2008

1 amount of navigable water in Nantucket Sound

2 would have an impact on the choice of courses

3 for and comfortable operation of our vessels,

4 particularly going into the foggy weather.

5

6 Placement of the wind power will

7 force a lot of small boats out of the

8 Horseshoe Shoals and into ferry routes which

9 are right next to it, with increased potential

10 for accidents.

11 No complete study on the effects of

12 these turbines on shipboard radar has been

13 made. No study has been offered on the

14 effects of ice formation around these towers

15 during cold winters when temperatures drop so

16 low Nantucket Sound freezes, or the

17 consequences that might have for contributing

18 to freeze-ups which might start near the

19 towers and spread out across the Sound.

20 Finally, the Steamship Authority

21 does not oppose the concept of wind farms.

22 Our concern is about this location and safety

23 risks this poses. I hope you will take these

24 into factors into consideration.

Cape Wind Energy Project - March 11, 2008

1 (Applause.)

2

3 MR. MOORE: AI?

4 AUDIENCE MEMBER: He will be back

5 shortly.

6 MR. MOORE: He will be back, okay.

7 When he comes back we will put him in.

8 So I think those are the public

9 officials who are going to speak tonight. So

10 that we will start with those of you who have

11 numbers who signed up. So if we could have 1,

12 3 and 5 here (indication). 2, 4 and 6 over

13 here. 7 can go over there and 8 up here. We

14 will start.

15 So Number 1, if you would stand and

16 state your name, please.

17 MS. EDWARDS: Good evening. My

18 name is Jacqueline Edwards. I'm a resident on

19 Nantucket for the last 38 years.

20 I wonder in your eight years of

21 investigating Nantucket Sound waters if you

22 have investigated any other alternative sites.

23 And as a follow-up to my question regarding

24 alternative sites, I would like to request

Cape Wind Energy Project - March 11, 2008

1 that the MMS evaluate better alternatives to

2 meet our energy needs than Cape Wind. The

3 cost-effectiveness of energy efficiency

4 programs like those done by Cape Light Compact

5 should be compared to Cape Wind.

6

7 We have over 8,000 megawatts of

8 untapped energy efficiency potential available

9 in New England, and at a third of the cost of

10 new supply, with none of the siting issues

11 Cape Wind poses. We could also upgrade the

12 existing fossil fuel plants to

13 high-efficiency, cleaner fuel sources at a

14 fraction of the cost.

15 Another alternative is deep wind

16 water. Deeper water sites offer stronger

17 winds and greater potential with fewer

18 downsides. They pose significantly lower

19 risks to navigational safety and to coastal

20 economies that depend on tourism, as well as

21 fewer visual impacts.

22 The potential for deep water sites

23 greater than hundred feet is vast. Nearly 90

24 percent of the offshore wind potential in the

Cape Wind Energy Project - March 11, 2008

1 U.S. is in deep water, and these depths are
2 feasible today. A 2006 study by the
3 Department of Energy National Renewable Energy
4 Lab shows a depth limit of 100 feet for
5 monopile foundations like that proposed by
6 Cape Wind, 200 feet limit for tripods, jackets
7 and trusses, and practically unlimited depths
8 for floating structures. Lattice structures
9 are already operating in 150 feet with two
10 turbines installed in Scotland, at the
11 Beatrice pilot.

12 In addition, two large-scale
13 projects are slated for construction in
14 Germany this year, that are more than 20 miles
15 offshore and at depths of almost a hundred
16 feet. By comparison, Cape Wind's project
17 relies on water that's no more than 50 feet,
18 and less than six miles from shore.

19 Deeper water wind technology is
20 advancing so rapidly that a project by Cape
21 Wind should not be built in Nantucket Sound.
22 The public would get the same benefits --

23 MR. MOORE: I ask you to finish up
24

Cape Wind Energy Project - March 11, 2008

1 please. You need to finish up, please.

2 MS. EDWARDS: Thank you very much.

3 MR. MOORE: Thank you very much.

4 Number 2?

5 (Applause.)

6 MR. MOORE: Number 2, okay.

7 MR. EDDY: Coming at you.

8 I am the Reverend Bill Eddy. I am
9 a priest at St. Paul's Church here in
10 Nantucket. And in the winter of 2003 when I
11 was in Falmouth, I was one of the founders of
12 Clean Power Now. I built my first wind
13 turbine in 1976 to celebrate the Bicentennial
14 of the nation. I am approaching this from a
15 slightly different pattern; more of a moral
16 point of view.

17 As we contemplate construction of
18 this project, I always believed that it would
19 be permanent. And my personal interest has
20 always been to secure the local benefits of
21 the people of this region. That is why we
22 began this particular organization.

23 We would like to see somehow in the
24

Cape Wind Energy Project - March 11, 2008

1 final draft something about the local
2 opportunity to secure this power. We need to
3 learn more about a municipal light plant and
4 how it could secure power and purchase it. We
5 need to take something like the Cape Light
6 Compact and turn it into an energy block which
7 would allow the residents of Martha's Vineyard
8 as well as the Cape to actually purchase the
9 tower.

10 We believe this wind farm/wind bill
11 should be of direct benefit for us.

12 Interestingly enough, for the people here on
13 Nantucket, the creation of a power source
14 would be a direct benefit here for the people,
15 with the creation of a municipal light plant
16 right here. And you could even lay a cable
17 from the farm and secure all of its power, or
18 you could guarantee the price for 20 years.

19 We need people to step up to the
20 plate who will help us solve problems and not
21 create more problems. And we have a fantastic
22 intelligence and wealth of the minds to do it
23 here. We just need to say yes, we can, and
24

Cape Wind Energy Project - March 11, 2008

1 mean it.

2 In 1843, the Reverend Stephen
3 Foster came to this island and reminded the
4 clergy of this island that they couldn't worry
5 about selling the saddle and not worry about
6 also selling people into human bondage.

7 He came to this island to warn the
8 clergy here that this island had a conscience
9 and needed to act on it. The speaker went on
10 to accuse the clergy of the island to be a
11 brotherhood of thieves, stealing the future
12 away from the people who lived there, as well
13 as the people around the nation.

14 Back then people felt that
15 Nantucket was the center of the world, and
16 once again it's becoming a center of the
17 world, of great power and prestige. If it was
18 to lend its support to the wind power, it
19 would definitely change the way the nation
20 deals with the future, and it could do
21 something that all of us could be glad about.

22 My main concern is when this wind
23 farm structure is permanent, that it be a
24

Cape Wind Energy Project - March 11, 2008

1 direct benefit. And I would go so far as to
 2 say that as the founder of one of the
 3 organizations that has been a proponent of
 4 this project from the very beginning, that I
 5 would want to see a national energy policy
 6 enabled, implemented as soon as possible, and
 7 within it I would like to see 20, 22, 24, 25
 8 years from now when this wind farm is
 9 delicensed, is removed, decommissioned, is
 10 removed, it would not have to be stored in the
 11 upper mountains. And when it is
 12 decommissioned, it would herald the beginning
 13 of deep water wind farms.

14 This is the beginning of our
 15 revolution and we once again, Nantucketers,
 16 should be proud to be a part of it.

17 MR. MOORE: Thank you very much.
 18 (Applause.)

19 MR. MOORE: Number 3, and can we
 20 have 9 and 10 back to back, so we could....

21 Oh, great.

22 MR. GOLDING: My name is Ian
 23 Golding, and I have been a full-time resident

Cape Wind Energy Project - March 11, 2008

1 of Nantucket for 27 years, since 1980.

2 VOICES: Louder.

3 MR. MOORE: You need to move
 4 closer, please.

5 MR. GOLDING: My name is Ian
 6 Golding, and I have been a full-time resident
 7 of Nantucket for 27 years, since 1980.

8 My great-grandparents first came to
 9 the island in the 1880's, and my earliest
 10 memories go back to 1951 as a four-year-old,
 11 peering through the cracks in the wooden
 12 planks of the ferry --

13 MR. MOORE: You need to speak
 14 slowly and be close to the mike, so she can
 15 get what you are saying.

16 MR. GOLDING: -- ferry terminal at
 17 the surging waters below, waiting to catch the
 18 boat from Woods Hole, having arrived there
 19 with my family by train.

20 My point is that over my lifetime I
 21 have seen a lot of changes; that I consider
 22 references by opponents of the wind farm as to
 23 the pristine nature of Nantucket Sound to beg

Cape Wind Energy Project - March 11, 2008

1 the question of the buildout on nearly every
 2 barrier beach, wetland, and scenic viewpoint
 3 on both the island and the Cape, that has
 4 contributed to making the wind farm necessary,
 5 and that I am personally a strong supporter of
 6 this project.

7 I spoke in favor of it at the Army
 8 Corps of Engineers' hearing in December 2004,
 9 and because of the vagaries of our political
 10 system, I find myself before you yet again
 11 today.

12 The Executive Summary of the Army
 13 Corps of Engineers' DEIS makes clear that the
 14 objections raised by the wind farm's opponents
 15 as to the dangers it might pose to navigation,
 16 wildlife, fisheries, the environment, and
 17 aviation are specious; not based on objective
 18 fact, but political or personal in nature.

19 In the meantime, since 2004 the
 20 science assessing the impact of global warming
 21 has continued to become more and more
 22 compelling. As a delegate to the UN's 60th
 23 DPI/NGO conference last September in New York,

Cape Wind Energy Project - March 11, 2008

1 Climate Change: How It Impacts Us All, I was
 2 privileged to listen to some of the world's
 3 leading scientists on the subject.

4 The Secretary-General's
 5 introductory message read, in part, "The
 6 impact of climate change is grave and growing.
 7 We cannot go on this way for long. We cannot
 8 continue with business as usual. The time has
 9 come for decisive action on a global scale."
 10 The end note speaker was Rahendra Pachauri,
 11 the chairman of the Intergovernmental Panel on
 12 Climate Change, which shared the 2007 Nobel
 13 Peace Prize with Al Gore.

14 Besides summarizing the
 15 overwhelming body of scientific evidence that
 16 has led to the conclusion that global warming
 17 is going to be catastrophically disruptive in
 18 many parts of the world, even if man-made
 19 greenhouse gas emissions were to stop
 20 tomorrow, he added that much of the IPCC's
 21 fourth report, released last December, was
 22 basically already out of date, due to the
 23 unanticipated acceleration of many of the

Cape Wind Energy Project - March 11, 2008

1 observed realities on the ground compared to
2 the mathematical modeling on which components
3 of the report were based.

4 Last year Pope Benedict XVI urged
5 Christians not to squander the world's
6 resources, and the other day the Vatican
7 announced it had added environmental
8 degradation to the list of seven mortal sins.
9 The Vatican has also declared its intention to
10 install solar panels on the roof of an
11 auditorium within the Holy See.

12 I put it to this hearing that if
13 the Pope has seen fit to install solar panels
14 within the Vatican's medieval walls, the least
15 we can do is to approve a wind farm in
16 Nantucket Sound.

17 Thank you.
18 (Applause.)

19 MS. WASSERMAN: Hello. My name is
20 Laura Wasserman.

21 I have lived on Nantucket for
22 almost 20 years, and I am strongly in support
23 of the wind project.
24

Cape Wind Energy Project - March 11, 2008

1 First, I would like to thank the
2 Minerals Management Service for their
3 diligence and the comprehensiveness of their
4 report, and this opportunity to participate in
5 this permitting process for the Cape Wind
6 project. I was pleased to see that the DEIS
7 showed only negligible and minor impacts, only
8 a couple of moderate impacts in the whole
9 1700-page report, and no major impacts.

10 I am disappointed in the statements
11 of our elected officials, however, and their
12 ongoing lack of support for this project, as I
13 don't believe they are acting in the public's
14 best interest. At the very least, they don't
15 speak for me. How do they expect to achieve
16 the new renewable energy standards and carbon
17 emission reductions mandated to us by the
18 state, the country and the times? This can
19 only be achieved through utility-scale
20 renewable energy projects like Cape Wind.

21 I am also disappointed to see so
22 many off-island faces here to give testimony
23 today. Clearly, the opposition to this
24

Cape Wind Energy Project - March 11, 2008

1 project has mobilized their forces and ferried
2 over a boatload of off-island opponents.
3 While this is a public hearing, I presumed it
4 was intended for island voices, and I hope you
5 will take that into consideration when
6 weighing our comments. I have lived on
7 Nantucket for almost 20 years, and I strongly
8 support the Cape Wind project.

9 True story. I went to bed last
10 night thinking about what I was going to say
11 today and worrying about this hearing.
12 Significantly, I found myself dreaming that I
13 was perched on a hilltop with views for miles,
14 and the whole hillside was covered in trash.

15 So this is what I have to say. We
16 are on the Titanic, and there aren't enough
17 lifeboats. This wind farm is a great big
18 lifeboat, and I think it's time we launched it
19 and began this rescue mission. And it is our
20 island that is the Titanic.

21 Nantucket is currently losing land
22 at a rate of at least six acres per year
23 according to the Woods Hole Oceanographic
24

Cape Wind Energy Project - March 11, 2008

1 Institute. And this does not include land
2 lost to storm damage. This is a very
3 substantial loss. This rise in sea level is
4 directly related to global warming. The
5 Number 1 contributor to global warming is fuel
6 combustion and carbon dioxide emissions. The
7 wind farm will displace one million tons of
8 carbon dioxide annually, and it is the most
9 significant way that we can stem global
10 warming in our region.

11 Furthermore, global warming, not a
12 wind farm, is also the biggest threat to our
13 local bird populations. In fact, it is the
14 Number 1 threat to birds, followed by glass
15 windows, automobiles, house cats and hunters,
16 all of which kill no less than 100 million
17 birds annually each, and we aren't trying to
18 stop any of these.

19 The DEIS report has shown that any
20 impacts to piping plovers will be minor, if
21 any, and that the wind farm will have
22 inconsequential effects to the roseate tern
23 population. On the other hand, we are losing
24

Cape Wind Energy Project - March 11, 2008

1 whole avian species due to climate change.
 2
 3 I know there are a lot of concerns,
 4 and the DEIS addresses most of them. As for
 5 navigation worries, the wind farm will be
 6 positioned at least one mile from ferryboat
 7 routes. Concerning air traffic, the turbines
 8 will stand more than 500 feet below minimum
 9 flight altitude requirements. Regarding
 10 sailing, the turbines will be placed a
 11 distance of six to nine football fields apart,
 12 leaving more than enough room for pleasure
 13 boating. And as far as real estate and
 14 tourism are concerned, the presence of a wind
 15 farm has only been beneficial and increased
 16 tourism in similar communities around the
 17 world.

18 Finally, I would like to address
 19 one of the big issues, that of location, as
 20 expressed in last week's editorial in the
 21 Inquirer & Mirror. There has been extensive
 22 research into siting for this project, and the
 23 DEIS addresses it as well. Horseshoe Shoal
 24 was found to be the best location for this

Cape Wind Energy Project - March 11, 2008

1 project, inclusive of wind availability,
 2 protection from elements, access to power
 3 sources, cost and community need.
 4
 5 As a final point, the editorial
 6 also brings up the question of a
 7 decommissioning bond, though this has been
 8 addressed time and time again for the past
 9 seven years. Yes, Cape Wind will post a
 10 decommissioning bond. The DEIS is requiring
 11 it. So no, this project won't be abandoned in
 12 our Sound.

13 As a nation that comprises 3% of
 14 the world population and uses 25% of its
 15 resources, we need to take responsibility for
 16 our consumption and the planet and begin to
 17 mitigate the effects of climate change.

18 So I ask that we look beyond
 19 ourselves, our fears, our own personal
 20 aesthetics, and support this bold, visionary,
 21 environmentally sound project to protect our
 22 environment, our future, and to truly save
 23 Nantucket Sound.

24 Thank you.

Cape Wind Energy Project - March 11, 2008

1 (Applause.)
 2
 3 MR. MOORE: Thank you very much.
 4 Number 5, 6, Number 7, and move
 5 forward so we could begin.
 6 Number 5, you are next.
 7 MR. BORCHERT: Good evening.
 8 Dear Minerals Management Service,
 9 the Cape Wind Energy Project would be capable
 10 of supplying 79% of the region's electrical
 11 energy needs on average. The project is
 12 economically viable because of no fuel costs,
 13 set maintenance costs, fixed-price power
 14 purchase agreements, and it can also bid zero
 15 fuel cost in the hourly spot market, knocking
 16 higher bidders off the top of the bid stack.
 17 This saves ratepayers money.

18 There are no harmful emissions such
 19 as carbon dioxide and mercury, which
 20 contribute to global warming, poison our air
 21 and contaminate our waters and fish. The wind
 22 resource here is unsurpassed and there is an
 23 estimated 900,000 megawatts of offshore wind
 24 potential in the US, with 300,000 megawatts

Cape Wind Energy Project - March 11, 2008

1 right here in the Mid-Atlantic Bight from
 2 Maine to North Carolina.
 3
 4 The Mid-Atlantic Bight is very
 5 attractive for offshore wind development
 6 because it is adjacent to large cities and
 7 could produce enough electrical power for the
 8 entire Eastern Seaboard. A large and
 9 expensive transmission system would be avoided
 10 along the East Coast if we build wind farms
 11 within 35 miles from shore. The technology
 12 for shallow water near shore sites like
 13 Horseshoe Shoal is available now and proven.

14 I have visited offshore wind parks
 15 in Denmark at Nysted and Blavand and was
 16 stunned to see how quiet and benign they are.
 17 These two wind parks have been so successful
 18 that the Danish government has ordered them to
 19 be doubled in size, and has set a goal for the
 20 country to get 50% of its electrical power
 21 from wind by 2025.

22 Cape Wind at peak will produce
 23 enough power for 468,000 homes, with average
 24 production for 185,000 homes. The turbines

Cape Wind Energy Project - March 11, 2008

1 require no imported oil from geopolitically
2 unstable zones, no natural gas from dangerous
3 LNG tankers, no coal from devastating
4 mountaintop removal techniques, and no uranium
5 from radioactive mines.

6 No single-hulled oil barges will be
7 necessary to fuel the project, eliminating the
8 chance of a catastrophic oil spill. The total
9 footprint of the monopoles will be less than
10 one acre, and the wind farm grid will be open
11 to recreational boaters and commercial
12 fishermen once construction is completed.

13 After seven years of exhaustive
14 review and four major government reports,
15 including this one, no major problems with the
16 Cape Wind Energy Project have been identified.
17 The project will be funded by private
18 investment, and the production tax credit
19 doesn't cost the taxpayer a penny.

20 The Mass. Audubon Society is the
21 largest and most respected avian authority in
22 New England, and they have granted conditional
23 approval of the project. Let's build Cape

Cape Wind Energy Project - March 11, 2008

1 Wind now and begin to create a safer, cleaner
2 and more secure world for our country, our
3 children and our grandchildren.

4 MS. VOLLANS: I'm Dorothy Vollans.

5 MR. MOORE: You need to move up as
6 if you are a rock star.

7 MS. VOLLANS: Thank you for this
8 opportunity to speak in favor of Cape Wind. I
9 have lived year round in Nantucket since 1979,
10 and I have served on the Nantucket Zoning
11 Board of Appeals and as an advisor to the
12 Nantucket Historic District Commission.

13 I care about my backyard and how it
14 looks, but I care even more about the air I
15 breathe. I also care about the future of the
16 bird population, and the quality of our lives
17 in general.

18 Cape Wind offers us a means of
19 providing electricity without burning fossil
20 fuels. As you know, oil and gas emissions
21 contribute to climate instability on a huge
22 scale. Back in 2005 I traveled to Denmark to
23 view the offshore wind farms, with an

Cape Wind Energy Project - March 11, 2008

1 undecided mind as to what I'd find.

2 Briefly, I found in favor of those
3 working projects. And I also find that the
4 statements by Cape Wind regarding their
5 project on Horseshoe Shoals are factual.

6 Sadly, the Alliance, who oppose the
7 development of wind power, have argued over
8 and over against wind power, with points that
9 have been addressed repeatedly with true
10 facts.

11 Their arguments are innuendo and
12 worse, untrue. Their only item that stands is
13 not wanting this power plant in their back
14 yard, even though they will barely see it on a
15 clear day.

16 Photos and artist's drawings of the
17 wind farm as seen from shore are all
18 foreshortened and make it appear close to the
19 dune grass. This is a telephoto effect. In
20 the North Sea and other waters off Denmark,
21 the turbines were barely visible from shore.
22 We went by boat, oared out amongst them, and I
23 found them to be quiet, smooth and elegant.

Cape Wind Energy Project - March 11, 2008

1 Our boat moored right alongside one of them.
2 No problem.

3 I hope you will find in favor of
4 clean power as soon as possible.

5 Thank you.

6 MR. MOORE: Thank you very much.
7 Number 7 and Number 8.

8 Anyone who has a written report
9 that you want to submit it, please do. It
10 will help make sure that our transcript is as
11 accurate as possible. Thank you.

12 MS. PICKWICK: Hello. My name is
13 Victoria Pickwick. I am a year-round resident
14 of Nantucket. First, I'd like to commend the
15 MMS for all their hard work in preparing this
16 thorough, accurate and non-partisan DEIS, and
17 to hear our feedback. Second, I'd like to
18 clear up some inaccurate statements, fear
19 tactics and innuendos promulgated by an
20 off-island group called the Alliance, who
21 purportedly wants to save our Sound for us.
22 Their talking points include, quote, "Right
23 idea; wrong place," which sounds like NIMBYism
24

Cape Wind Energy Project - March 11, 2008

1 to me.

2
3 In other words, I would like to
4 comment on fear mongering about local economy,
5 jobs, tourism, rent values, bird, fishing
6 commercial and recreational, fishing for
7 mollusks, finfish as well as shellfish. I
8 would like to comment on navigation, too.
9 This includes plains, trains, automobiles,
10 hang gliding, and in general whatever moves.
11 Our Coast Guard states the proposed plan meets
12 standards necessary for navigational safety.

13 You are going to hear a lot about
14 Denmark. I know Denmark is not Nantucket, but
15 there are some valid similarities. The Nysted
16 and Horns Rev locations in Denmark have avian
17 migration radar studies showing that the fear
18 of negative impact on avian life is but
19 another bit of hysteria promulgated by the
20 Alliance, who say they want to protect
21 Nantucket bird life.

22 We have the blessing of the
23 Massachusetts Audubon Society. I equate them,
24 the Audubon Society, to bird lovers. Are we

Cape Wind Energy Project - March 11, 2008

1 not to believe them?

2
3 Nysted in Denmark is a town very
4 much like Nantucket in terms of its livelihood
5 being dependent on tourism, historic houses,
6 day sailors like ourselves, who now sail past
7 the beautiful windmills. Both the mayor and
8 the director of the Chamber of Commerce of
9 Nysted said, "Why me? Why us? Can't you pick
10 another spot," before the fact, and their
11 fears were unfounded after the wind farm was a
12 fait accompli.

13 We ask, "Why here?" Well, the
14 Danes reported no impact on tourism, property
15 value, boating and fishing; indeed, just the
16 opposite.

17 This project is indeed in shallow
18 water, a shoal, which is the optimum location
19 for the pylons and the perfect place to
20 enhance the mollusks, fish, et cetera. The
21 marine life will go on these pylons, thinking
22 they are rocks and a safe place to start a
23 family. These structures will enhance the
24 livelihoods of our recreational and commercial

Cape Wind Energy Project - March 11, 2008

1 fishermen.

2
3 It's a shame the SOS people are so
4 intent on fooling people for their own private
5 agenda.

6 MR. MOORE: It's time.

7 MS. PICKWICK: We live here. We
8 can see with our own eyes.

9 Thank you.

10 (Applause.)

11 MS. WHEATLEY: My name is Nancy
12 Wheatley, and I live on Nantucket. Somewhat
13 over 30 years ago I also used to fish with my
14 father on Horseshoe Shoals, and in 1979, I had
15 my first experience with alternative energy,
16 when I was on the staff of the MIT Energy Lab,
17 developing regulations for the Public Utility
18 Regulatory Policy Act, which some of us in the
19 room may remember.

20 I want to speak in favor of the
21 Cape Wind Project on Nantucket Sound. After
22 two comprehensive DEIS's, one by the Army
23 Corps and one by the Minerals Management
24 Service, it is clear that the project will

Cape Wind Energy Project - March 11, 2008

1 provide many types of benefits without harming
2 our environment or our home.

3
4 During this process, many serious
5 questions have been asked, and those have been
6 answered, and I trust that in the Final
7 Environmental Impact Study, those additional
8 questions will also be answered.
9 Nevertheless, we continue to hear claims about
10 the risks posed to -- the risks to us which
11 are posed by this project.

12 The statements about these risks
13 are intended to fan our fears, and they make
14 inconsistent claims to enhance those fears.
15 We are told the developer is going to make
16 money. Well, this is a private enterprise
17 country, and in this state, in particular,
18 most of our energy comes from private
19 enterprise, and we wouldn't have that energy
20 if those energy providers didn't make money.

21 We've also recently heard the
22 project is so expensive that it can't, that it
23 is going to raise our electricity rates. If
24 the project is too expensive, first of all, it

Cape Wind Energy Project - March 11, 2008

1 won't be built, and second of all, if it is
2 built and the cost is too high, the price is
3 too high, then no one will buy the energy. So
4 once again it's a fear that is not real.

5 We hear about the potential for oil
6 in the Sound from the transformer. It's a
7 relatively small amount of oil, particularly
8 given all the boating that goes on in the
9 Sound, and all the oil barges that go back and
10 forth from the Canal power plant. And if I
11 thought that the ferries and the planes
12 couldn't navigate buildings, docks, towers and
13 things like that, I wouldn't fly to Boston,
14 and I wouldn't take the boat to the Cape.

15 At this point the opposition seems
16 to have evolved to "Right project; put it some
17 place else." That is the very essence of not
18 in my backyard. Nantucket has a long history
19 as a innovator and a leader. This project is
20 in fact about leadership. It is big enough to
21 make a difference. It is big enough to have a
22 very real impact on the very real power plant
23 at the end of the canal, which I have seen
24

Cape Wind Energy Project - March 11, 2008

1 many times when I have gone to Boston on Cape
2 Air. This project, the Cape Wind Project
3 alone, will not change the world, but will,
4 proudly enough, it will make a difference.

5 Thank you very much.
6 (Applause.)

7 MR. MOORE: Thank you.

8 Number 9? So 9, 10, 11, 12, 13,
9 and then 14. Would you come up so you are
10 ready at the mike.

11 MR. ALLFATHER: My name is Randy
12 Allfather. I am a resident on Nantucket.

13 Dear MMS, I went to Nysted, Denmark
14 in May of 2005 to see the offshore wind park
15 there for myself, and this is what I have to
16 report. The Nysted wind park is 1.5 miles
17 from the shipping lane in the Baltic Sea,
18 where 65,000 ships pass per year. There are
19 no operational problems with the wind park as
20 far as shipping is concerned here.

21 Over 20,000 German sailors and
22 their families and friends descend upon Nysted
23 from Germany every summer. They have had no
24

Cape Wind Energy Project - March 11, 2008

1 problems navigating through and around the
2 wind park, and it has not stopped them from
3 coming to Nysted and enjoying themselves. The
4 mayor of Nysted told me that property values
5 are going up, not down. No problems there.

6 Only one dead bird was recovered in
7 the first 18 months of operation by the
8 maintenance crews on their boats. There have
9 not been any reports of major bird kills at
10 Nysted. No problems there.

11 At first the lights on top of the
12 nacelles were flashing randomly. Then the
13 operators fixed this problem by making all the
14 lights flash at the same time on each turbine
15 nacelle. I looked at the wind park at night
16 and could barely see the lights. No
17 operational problems there.

18 In conclusion, I have visited these
19 wind parks personally and I am of the opinion
20 that we have nothing to fear or worry about.
21 They are out at sea quietly and beautifully
22 producing clean electricity.
23

24 (Applause.)

Cape Wind Energy Project - March 11, 2008

1 MR. FREEDMAN: My name is Don
2 Freedman and I live here in Nantucket.

3 When this thing, whole concept
4 became of concern, I was in the middle of the
5 road; I really couldn't decide, and therefore
6 continued to try to get as much information as
7 I could.

8 After listening to all the facts,
9 some of which were so clearly stated earlier,
10 it became obvious to me that this plant is an
11 opportunity for us to do something that's
12 leading the East Coast, leading Massachusetts,
13 leading the United States, and saying, "We are
14 going to do something about it. We are not
15 going to just stand back and see what happens
16 or hope it goes away."

17 The problem of global warming is
18 obvious. The facts that were stated are
19 clear, so I felt it not necessary to reiterate
20 those facts. It seems to be reiterated for
21 years now, and some people just come up with,
22 I hate to say, kind of cock and bull stories
23 that are on the other side of the fence that
24

Cape Wind Energy Project - March 11, 2008

1 just don't seem to be based on facts.

2 The facts seem to be true, that
3 this is not a problem, this is a good thing.
4 We need it before Nantucket doesn't exist any
5 longer, or is
6 not -- or maybe just portions of it disappear.

7 Nantucket could be, needless to
8 say, Nantucket could be a beautiful place for
9 our children and our grandchildren to share,
10 and I think we need to do something aggressive
11 about it and make a stand to do something that
12 makes us proud.

13 I hope you consider all these
14 things, and I think it's wonderful that you
15 are here listening to public views like this.
16 I think it's great, what the world is all
17 about.

18 Thank you very much.

19 (Applause.)

20 MR. MOORE: 11.

21 MR. SAWYER: 11?

22 MR. MOORE: Yes.

23 MR. SAWYER: Good evening. I'm

Cape Wind Energy Project - March 11, 2008

1 When the United States put Neil
2 Armstrong on the moon, it did not have all the
3 answers either. Cape Wind has been in the
4 planning and review process as long as it took
5 the Apollo project to get from John Kennedy's
6 decision to launch it until Armstrong got to
7 the moon.

8 We've had enough of the petty
9 bickering about trivial details and the myriad
10 of what-ifs that are thrown across our bow.
11 The time has come to get on with it, and as
12 NASA did, Cape Wind can solve any remaining
13 problems as it goes along.

14 The Cape and Island need clean
15 energy and renewable energy. The country
16 needs energy that we don't have to buy from
17 our enemies, and the world needs relief from
18 the pollution from burning fossil fuels.

19 This project will be a major step
20 towards getting our country moving on the
21 right track. Let's do it.

22 (Applause.)

23 MR. MOORE: Number 12, 13, 14, 15

Cape Wind Energy Project - March 11, 2008

1 Pete Sawyer.

2 MR. MOORE: A little closer.

3 MR. SAWYER: I first came to
4 Nantucket in 1924, and have been coming here
5 summers ever since. I've been here full-time
6 since 1991.

7 I have been sailing in Nantucket
8 Harbor and the Sound for over 70 years. The
9 idea that the wind farm would close off
10 sailing in the Sound is ridiculous. The
11 spacing of the towers will be on a grid of 30
12 miles in one direction, and a half a mile in
13 the other direction, and that's more than the
14 distance from Coatue's first point to the
15 Jetties Beach. I think even the Figawi could
16 manage to sail through a channel that is a
17 half a mile wide.

18 The horseshoe Shoal wind farm
19 project has gone through years of analysis and
20 review. Better than 90 percent of the results
21 are favorable. The balance fall in the area
22 of marginal and don't yet have enough
23 information.

Cape Wind Energy Project - March 11, 2008

1 and 16. So if you would come down so you are
2 ready.

3 MS. PARKER: My name is Audra
4 Parker, and I am proud to be a director of the
5 Alliance to Protect Nantucket Sound.

6 For the last 30 minutes you have
7 been listening to some people, particularly
8 members of Clean Power Now, that believe that
9 Cape Wind is the miracle project. In fact, if
10 you look at the DEIS summary impacts table,
11 you could see why you would believe this.

12 There is no other way to describe a
13 massive industrial development that only has
14 minor and negligible impact on almost every
15 conceivable issue area. Unfortunately, when
16 you look at the DEIS in more detail, many
17 blatant representations become clear. Example
18 1, the DEIS estimates a total loss to the
19 entire fishing community of \$15,000 over the
20 life of the project, but a recent in-depth
21 study by the Massachusetts Fisherman's
22 Partnership of just the mobile gear segment
23 estimates an \$8 million impact if the area
24

Cape Wind Energy Project - March 11, 2008

1 remains open to fishing, and 13 million if
2 it's closed to mobile gear fishing. Add in
3 other fishing segments, and the actual impact
4 is 1,000 times more than the DEIS claims.
5 \$15,000 according to MMS. Between eight
6 million, eight and \$13 million according to
7 the fishermen that fish Horseshoe Shoal.

8 In another example, the DEIS states
9 there is only a minor impact on aviation, but
10 the Federal Aviation Administration, the FAA,
11 recently issued a presumed hazard designation
12 for Cape Wind, and determined that additional
13 studies were needed.

14 A third example of the
15 misrepresentations in the DEIS concern visual
16 impacts, and I'm sure this would be a popular
17 one right now, a technical report called
18 Visual Impact Assessment is done for both the
19 state and federal reviews.

20 This report found that every
21 location with a view of the proposed project
22 would be adversely affected. I'm sorry,
23 adversely affected. However, in the DEIS when
24

Cape Wind Energy Project - March 11, 2008

1 the results of this report were presented,
2 most of these characterizations are actually
3 reversed and they will have no adverse effect.

4 Finally, the DEIS gives navigation
5 impacts a minor, but the Coast Guard has
6 requested a complete study on wind plant radar
7 interference and the serious effects that it
8 could have on safe navigation for both large
9 and small vessels in Nantucket Sound.

10 Those are only a few examples of
11 the errors and the misstatements in the DEIS.
12 We have a team of independent experts that are
13 going to cover more. Cape Wind is not a
14 miracle project as portrayed in the DEIS, or
15 is believed by members of Clean Power Now. It
16 is a massive industrial development with
17 serious and significant impacts.

18 Thank you.
19 (Applause.)

20 MR. MOORE: 13.

21 MR. MARKS: I'm Phillip Marks. I'm
22 a long-time Nantucket resident my whole life.

23 MR. MOORE: A little closer.
24

Cape Wind Energy Project - March 11, 2008

1 MR. MARKS: I worked on a project
2 at the Nantucket landfill for six wind
3 turbines out there. I was approved at one
4 meeting to put them in there, and a group such
5 as what is against the wind farm in the Sound,
6 went together and squashed that project, and
7 several things like that. They didn't want to
8 look at it and "Find someplace else to put
9 them," and on and on, which caused the demise
10 of that project.

11 Again we are in the same situation.
12 We are told to look someplace else, and
13 everybody went and looked someplace else and
14 they picked a place away from all the houses
15 and away from all the people, and used all the
16 available technology today to put the wind
17 farms in the ocean. And today's technology
18 picked a place in Nantucket Sound, which is a
19 great wind resource and shallow enough water
20 for our current technology, and that is where
21 they chose to put it. And again, the same
22 type of rhetoric about how we shouldn't have
23 it there comes up again.
24

Cape Wind Energy Project - March 11, 2008

1 Now, the state, under the
2 deregulation, mandated that all the energy
3 providers in the State of Massachusetts had to
4 derive a percentage of their energy from a
5 renewable resource. I don't understand where
6 the renewable resource is supposed to come
7 from other than things like wind, which is the
8 predominant renewable resource that is
9 available for us. This project would allow
10 the Massachusetts energy providers to meet
11 that goal of our percentages.

12 We are only going to use 10 percent
13 if we took the whole land area of the wind
14 farm to produce 79 percent of the energy that
15 is required for the Cape and Islands. That is
16 a pretty significant thing.

17 Nantucket used to steal energy from
18 the wind. We ground our corn back before we
19 had electricity from wind turbines that are
20 right behind us here up on the hill. All our
21 ships were sailing all over the ocean for
22 whaling and stuff.

23 So I think the history and the
24

Cape Wind Energy Project - March 11, 2008

1 visual impact of the wind turbines are things
2 that will be embraced as time goes on, because
3 people would look at wind farms and see what
4 we did to protect our environment and to move
5 forward into the wind farm, and get this
6 project going so we could maybe move and get
7 it further away from the people, if that is
8 what it needs to do.

9 We need to start with what we have
10 today, and we can't keep putting it off. We
11 already put it off 20 years from when I first
12 tried doing it. So I ask the Board to make a
13 favorable recommendation and to provide the
14 permit for Cape Wind to proceed.

15 (Applause.)

16 MR. MOORE: Number 15. 14 over
17 here. No 14? Okay, 15, 16.

18 Over to my mike, please.

19 MR. BERGER: Good afternoon. My
20 name is John Berger. I am a Ph.D. candidate
21 from the University of Rhode Island.

22 Over the course of the last eight
23 months, I have been working with the

Cape Wind Energy Project - March 11, 2008

1 Massachusetts fishermen to do an economic
2 valuation of the Horseshoe Shoal area as a
3 mobile gear fishing grounds.

4 Approximately 146 mobile gear
5 fishing vessels hold Massachusetts coastal
6 access permits, endorsed with both squid and
7 fluke. This grants them an exclusive right to
8 fish the Horseshoe Shoals area of Nantucket
9 Sound during the spring, small mesh squid
10 season, and the inshore summer fluke season.

11 These endorsements, in a sense, act
12 like a property right. They may be traded on
13 the open market and offer a degree of
14 exclusivity to the holder. And according to a
15 study by the Massachusetts Division of Marine
16 Fisheries, nearly all squid landed in
17 Massachusetts are taken from Nantucket and
18 Vineyard Sounds. And the Horseshoe Shoals
19 area is identified in this report as the
20 second most trawled area in Nantucket Sound.

21 These exclusive mobile gear
22 fishermen were never identified by Cape Wind's
23 Environmental Impact Statement, so a type of

Cape Wind Energy Project - March 11, 2008

1 contingent valuation mail and telephone survey
2 was developed and administered to this
3 exclusive group of mobile gear fishermen.
4 Forty-eight mobile gear fishermen were
5 contacted by phone or through the mail.
6 Thirty-four of the forty-eight fishermen
7 contacted said that they annually fish in the
8 Horseshoe Shoals area of Nantucket Sound.

9 The average annual income derived
10 specifically from the Horseshoe Shoals area
11 for these vessels is roughly \$14,590, which
12 represents about 40 percent of their average
13 annual income from Nantucket Sound.

14 Based on the evidence of other
15 offshore wind farms around the world,
16 developing a wind farm on traditional fishing
17 grounds imposes social costs to commercial
18 fishermen, especially trawlers.

19 Many European wind farms have been
20 closed to trawling at least temporarily. If
21 not closed, it is still recognized that
22 commercial fishing effort may be displaced,
23 due to an unwillingness or inability of

Cape Wind Energy Project - March 11, 2008

1 trawlers to effectively tow their gear through
2 the wind farms.

3 In the case of the Barrow's Wind
4 Farm in northern Wales, mobile gear fishermen
5 have taken legal action to seek compensation
6 for the loss of fishing grounds in the Barrow
7 area as a result of the wind farm development,
8 even though it has not been closed to mobile
9 gear fishing.

10 The contingent valuation scenario
11 invites fishermen to enter into a class action
12 lawsuit against Cape Wind for possible
13 compensation if the rights to develop a wind
14 farm are granted to this area.

15 Thirty-two of the thirty-four
16 commercial fishermen interviewed agreed that
17 they had historical evidence of fishing in
18 this area, and would take part in this
19 lawsuit, regardless of whether or not the wind
20 farm remained open to mobile gear fishing.

21 The total economic value of
22 Horseshoe Shoals is estimated under two
23 scenarios: First, a wind farm developed on

1 Cape Wind Energy Project - March 11, 2008

2 Horseshoe Shoals and open to mobile gear
3 fishing; and two, a wind farm developed on
4 Horseshoe Shoals and closed to mobile gear
5 fishing. A policy relevant, compensating
6 surplus measure of welfare is estimated based
7 on this scenario.

8 The results show a total net
9 present value discounted over a 25-year
10 expected life of the project, if the wind farm
11 remained open to mobile gear fishing, of
12 approximately \$8 million. The total net
13 present value over the same time horizon for
14 the second scenario --

15 MR. MOORE: Finish up.

16 MR. BERGER: -- where the wind farm
17 is closed to mobile gear fishing is
18 approximately \$13.3 million.

19 MR. MOORE: Thank you.

20 (Applause.)

21 MR. DACKERMAN: My name is Ray
22 Dackerman. I am the general manager of Blue H
23 USA.

24 Blue H USA is the exclusive

1 Cape Wind Energy Project - March 11, 2008

2 install an actual deep water wind energy unit
3 which is the product of over ten years of
4 development and hard work in Europe by Martin
5 Jakubowski, our chief technology officer.

6 As mandated by MMS, this
7 demonstration unit, which will be
8 non-operational, and thus will consist of our
9 deep water counterweight, deep water platform
10 and nacelle, to simulate the actual weight, so
11 therefore, we would not produce electricity.
12 But we want to make it clear that this unit we
13 are putting in will prove the construction,
14 the commissioning and decommissioning of deep
15 water wind energy in the United States.

16 Blue H as a deep water wind energy
17 company must contrast its technology with
18 shallow water technology. We are inherently,
19 in relationship with shallow water technology,
20 non-invasive. We place a counterweight on the
21 sea floor. We are not damaging the sea floor.
22 So in terms of environmental impact, we don't
23 have the long construction period; we don't
24 have any construction period. See, in fact,

1 Cape Wind Energy Project - March 11, 2008

2 developing company for Blue H Technologies BV,
3 which in December of 2007 launched the world's
4 first floating wind energy platform.

5 I would first of all like to thank
6 MMS for all of its hard work. I have attended
7 many MMS hearings, and I see the hard work
8 that has been involved, and I would like to
9 thank MMS for what you have done thus far.
10 Excuse me if I am a bit incoherent, but since
11 yesterday I had a big announcement. I had
12 almost no sleep and no food, but today I am
13 going to try to make an announcement that deep
14 water wind energy is here today and not in the
15 future.

16 Yesterday, at the John F. Kennedy
17 Museum in Hyannis, Blue H USA announced the
18 submission of nomination of a lease to
19 install the first deep water wind energy unit
20 in the United States. This location is 23
21 miles south of Martha's Vineyard and 45 miles
22 off of New Bedford.

23 To be clear, we are not applying to
24 install a met tower, we are applying to

1 Cape Wind Energy Project - March 11, 2008

2 we are assembling, actually, we are assembling
3 fully on shore, but we are just launching at
4 sea.

5 As such, we have lower installation
6 costs. Not only that, at some point in time
7 in the future, over 30 years, approximately,
8 these units are going to have to be
9 decommissioned. We could either leave our
10 counterweight on the sea floor to act as an
11 artificial reef, or we can bring them back up.
12 We don't have to decommission the unit.

13 I don't have enough time to say
14 everything that I want to say, but in summary,
15 I want to say we have located a site that is
16 not in the ferry lanes or shipping lanes or in
17 the area of high traffic.

18 Prior to today, many people don't
19 know the wind farm is here. We are here to
20 announce to the people in Massachusetts, we're
21 here, and we would like MMS to take into their
22 consideration that deep water needs to be in
23 the final regulations.

24 Thank you.

Cape Wind Energy Project - March 11, 2008

(Applause.)

MR. CARROLL: What I have heard earlier tonight is a scripted campaign to discredit the work of the Alliance. The Alliance is not a small group of opponents, it is tens of thousands of Cape Codders strong. The Alliance is your senators, your Congressman, your selectmen, your airport commissions, your Chambers of Commerce, your ferry lines and your neighbors.

Who does Clean Power Now think they are fooling?

Good evening. My name is Cliff Carol, one of the founders of windstop.org. Before I speak, I would like to clarify that my statement last night was not meant to be construed as a direct charge against Dr. Cluck. They were directed against the entire team that is responsible for the preparation of this grossly negligent document.

It is important to know that this entire island of Nantucket has been designated as a national historic site. The people of

Cape Wind Energy Project - March 11, 2008

this island have worked very hard to preserve the beautiful island, making it one of the most beautiful tourist destinations in America today. Nantucket does not even have a red light. Therefore, it is no place for a 24-square-mile steel forest.

The other thing that should be noted is that when you live on an island, you have to be able to get here from there. With that being said, your Draft Environmental Impact Statement has completely ignored the danger that this 43-story, 24-square-mile industrial plant presents to the critical lifelines of ship and air navigation that this island depends on.

The good people of this island have to traverse Nantucket Sound every day all year. That means summer, winter, spring, fall. It also means flying, boating and navigating in sunny days, rainy days, snowstorms, ice storms and of course fog.

On average, there are over 170 days of fog on the Nantucket Sound. In fact,

Cape Wind Energy Project - March 11, 2008

Nantucket got her name Gray Lady from being covered in a shroud of fog. With all of that being said, MMS has been completely negligent in the area of demanding comprehensive studies on the massive radar interference on these ships and sea rescues. There are over 3 million ferry passengers and 400,000 flights a year that go through this 24-square-mile footprint.

The DEIS falsely states that the FAA has okayed the project. In fact, it is two years old. Cape Wind no longer has FAA approval. In fact, the FAA has stamped a "presumed hazard" on this project. You neglected to put that in your report.

The U.S. Coast Guard has asked for a complete radar interference investigation into the shipping, communication, navigation radar systems, yet you chose to prematurely release the DEIS before the FAA and U.S. Coast Guard did their studies and they have been completed.

The MMS continues to ignore the

Cape Wind Energy Project - March 11, 2008

deadly risk that this radar interference could present to the millions in the sea and air that traverse waters every year under every weather condition. It would be an act of gross negligence. Wind farm radar interference is real. Would you please investigate it fully before someone gets killed out here.

Thank you.

(Applause.)

MR. MOORE: What was your number?

MR. CARROLL: 17.

MR. MOORE: 18, 19, 20 and 21.

MR. CRONIN: My name is Larry Cronin. Thank you very much for this opportunity to speak and coming to the Island.

I have 45 years of fishing and diving in the Sound, and making observations. Bringing any kind of industrial project into the Sound could be a disaster, because any industrial project would bring all kinds of problems, as I have seen in many other areas, outside of this area.

Cape Wind Energy Project - March 11, 2008

1 In some of those projects those
2 disasters that could be caused in the Sound
3 are like bringing in pathogens, industrial
4 pollutants. Nantucket Sound is unique, and I
5 want to bring to the table some new
6 information since I spoke to you four years
7 ago. Now for some new information I want to
8 bring to the table.

9 And since then we have had
10 approximately, because Nantucket Sound is
11 unique, it is a well-oiled machine, in that it
12 brings cold water and nutrients into the
13 Sound, which produces vital plankton and
14 zooplankton. This feeds a vast nursery of
15 both the inshore and offshore vertebrates and
16 invertebrates. And this is feeding the
17 offshore fisheries, which is now in flux.

18 So water coming in from the
19 Vineyard Sound feeds this shallow water
20 system. It's unique. The only other area is
21 Stellwagen Bank and Brown's Bank, which has
22 the similar situation.

23 The other issue, Nantucket may have

Cape Wind Energy Project - March 11, 2008

1 a serious problem with its fresh water supply.
2 And any deep drilling in Nantucket Sound could
3 cut off our water supply, the reason being
4 that drilling in Nantucket Sound could allow
5 salt water to percolate into our fresh water
6 supply that comes across the Sound in a deep
7 aquifer.

8 The other situation is a
9 meteorological one. We have, in Nantucket
10 Sound, we could have 20 to 30-mile-an-hour
11 winds. This happens nowhere else. Neither
12 north of here or south of here do we have a
13 situation like this. This would make
14 Nantucket extremely dangerous in foggy
15 situations, which we have a lot of.

16 Thank you very much.

17 MR. MOORE: Thank you.

18 We have one of our elected
19 officials who was earlier with us. If you
20 could hold on, is Al here?

21 MR. PETERSON: Hello. Thank you
22 very much for waiting. I had another meeting
23 and I just got back from that. I am speaking

Cape Wind Energy Project - March 11, 2008

1 on behalf of the Nantucket Memorial Airport
2 Commission.

3 We took a position some time ago
4 opposing the location of the wind farm, simply
5 from the standpoint of safety and concern
6 about some of the studies that have been done
7 on the radar, primarily by the British
8 Ministry of Defense. They have indicated they
9 have put in new restrictions in terms of where
10 the wind farms could go, in terms of creating
11 a black hole in the radar currently, according
12 to our Congressman, Representative Delahunt,
13 and he has a letter from Bobby Sturgell, who
14 is the acting director of the FAA.

15 And I encourage you to take your
16 time in making this decision until these
17 studies are completed, radar studies are
18 completed by the Institution of
19 Telecommunications in Boulder, Colorado. And
20 until we get those studies, we won't know
21 whether or not the wind farm will have an
22 impact on the radar. And we currently have up
23 to a thousand operations a day at Nantucket

Cape Wind Energy Project - March 11, 2008

1 Memorial Airport.

2 The second factor is the safety
3 factor of the size of this area, that will
4 prohibit rescue aircraft, helicopters, to have
5 an impact on any kind of search and rescue
6 operation in this area that will be covered by
7 the turbines with their 500-foot height.

8 From a safety viewpoint on this
9 radar issue, I encourage you to take your time
10 in making your decision, wait until the study
11 is resolved, the radar issue, and the FAA is
12 well aware of it, and I know that Senator
13 Kennedy and Representative Delahunt have
14 encouraged us to take our time on this issue.

15 Thank you.

16 (Applause.)

17 MR. TAYLOR: My name is R.C.

18 Taylor. I'm a resident of Nantucket. I am
19 also, just by way of background, a civil
20 engineer. I also have an honorary Ph.D. in
21 business administration, so I have a little
22 education, so I think I know what I am
23 speaking about.

Cape Wind Energy Project - March 11, 2008

I have a number of issues with the Draft EIS, and I think this is an emotional issue, as well as a factual issue.

I hope that you all really study the facts, the key issues that I have encountered, many of which you already heard. One is public safety, it has to do with the FAA and the Coast Guard. Without their full, complete studies, I don't know how we can make an intelligent decision on this.

I think public safety is key, critical. I have been out on the Sound in pea soup fog and you can't see or hear anything.

It's really a tough situation. If we have a search and rescue situation and we are foggy, the black hole that Al just talked about won't let them go out, won't be safe for them to go out and do search and rescue for people who have had an accident. So let's wait until we get those reports before you make a decision.

There is a tremendous difference of opinion on the costs involved, particularly

Cape Wind Energy Project - March 11, 2008

the cost of what the electricity is going to come in at. Some of those things are variable right now from the report two or three years ago, which I have submitted in writing to you, which I think you should study, because, wow, I wonder how this thing can be economically viable. And the fact that I understand one place in Delaware has been cancelled, another one on Long Island. Why were they stopped? Probably economically. So I think that is really something we need to look at.

Have alternate sites been evaluated?

The government has an Air Force base on the Cape. There is an island on the end of Martha's Vineyard called Neumann's Island. We could have it there.

The other thing is, there is a new technology, we just heard tonight. There is also tidal or current energy. Although it's in its infancy, we will never run out of tides; they are going to flow forever, or as long as we are going to be here. I think that

Cape Wind Energy Project - March 11, 2008

really needs to be looked at.

Something about, I think, I'm concerned about the political pressure that is there. Even though it has been seven years in the making, let's do it right or let's not do it.

Thank you.

(Applause.)

MR. MOORE: 20, 21, 22, 23, 24.

MR. BASSETT: Good evening. My name is George Bassett. I'm the director of operations in the Nantucket boat basin, and I am a retired Coast Guard officer.

I, as I think everybody in this room is, am all for alternate energy, especially if it's going to go away with fossil fuels. I am, however, against the destruction of the pristine waterways, and ask that this project be relocated.

My major concern is something about renewal. I heard it tonight. In my Coast Guard days, I was a captain of two coast buoy tenders in which I worked, and most of the

Cape Wind Energy Project - March 11, 2008

lighthouses from Connecticut to Maine.

Several years or several times in the 10 years, I had these two buoys, we had ice seasons, and I'm not talking about a really snowy day, I'm talking about ice that forms particularly in the Sound, Buzzard's Bay, in my experience with Buzzard's Bay. And these are steel structures that are full of cement, that are 16 and 20 feet across, very similar to these monopole structures that Cape Wind is talking about, the Canal approach from the Buzzard's Bay side. They had ice damage. Several of those steel encased structures were carried away or bent over on a 40, 45-degree angle from the force of these ice floes. Again, I speak from experience. I have observed this. I'm sure it's still in the Coast Guard records.

People who state winters are getting warmer, yes, they are correct. The greenhouse effect's warming things up the entire world, but I do feel in the future that at some point or another, we will have severe

Cape Wind Energy Project - March 11, 2008

1 winters. We had severe winters. There was 22
2 inches of ice. At least four times I have
3 seen the harbor frozen over, and so it's going
4 to happen again.

5 Second, my concern I have is in
6 today's modern Homeland Security, what if
7 Homeland Security defines a wind farm as a
8 facility that could be a terrorist target,
9 people blowing it up? Then if that is there
10 for a clearance facility, nobody could use it,
11 it's a restricted zone; we absolutely couldn't
12 use it.

13 Again, I heard somebody say about
14 the solution as an offshore deep water wind
15 turbine, the gentleman from the Blue H. I
16 think we should go with that.

17 Thank you.
18 (Applause.)

19 MR. LOHMANN: My name is Chris
20 Lohmann. I am a resident of Nantucket.

21 Our family has owned property on
22 Great Point for 60 years. Most of that land
23 was donated to and is now administered for the
24

Cape Wind Energy Project - March 11, 2008

1 benefit of all by The Trustees of
2 Reservations, a well-known Massachusetts
3 non-profit conservation organization.

4 Like all Nantucketers, we have
5 enjoyed and valued the wide ocean views from
6 horizon to horizon that Great Point offers,
7 and if there is any place on Nantucket from
8 which the proposed wind farm would be visible,
9 it is Great Point.

10 Having seen many other turbines
11 both in this country and in Europe, we do not
12 believe, however, that even the large turbines
13 proposed for this project will have a
14 significantly negative impact on anyone's
15 appreciation of the views from Great Point.

16 We believe it is long overdue to
17 get serious about developing clean, renewable
18 energy sources to reduce our dependence on
19 fossil fuels, reduce pollution, and reduce
20 global warming. The proposed wind farm
21 presents a major opportunity to do so. The
22 potential long-term benefits of developing
23 successful alternative energy, in our opinion,
24

Cape Wind Energy Project - March 11, 2008

1 far outweigh the local and short-term risks.

2 In a 2005 letter to the Army Corps
3 of Engineers, the federal agency then charged
4 with overseeing this project, we expressed our
5 overall support, qualified by some concerns
6 about the environmental impact of the wind
7 farm. In the intervening two years, many
8 further studies have been conducted, all
9 tending toward answering our concerns.

10 We do not have a problem with
11 granting a private firm rights to develop the
12 wind farm in public waters, as long as a
13 strict performance bond assures proper safety
14 measures, proper maintenance, proper attention
15 to potential emergency situations, and strict
16 requirements for replacement or
17 decommissioning as necessary. We also believe
18 that the terms of the lease must guarantee the
19 public an appropriate share in long-term
20 profits, in addition to the benefits of clean
21 electrical power at competitive prices.

22 We hope that you will look
23 favorably on implementing the proposed wind
24

Cape Wind Energy Project - March 11, 2008

1 farm while insuring that strong measures will
2 be taken to protect the environment and the
3 public interest.

4 (Applause.)

5 MS. TAYLOR: My name is Sandy
6 Taylor, and I live here on Nantucket, and I
7 just have some thoughts that I wish to give to
8 you.

9 The Cape Wind federal report is
10 flawed, and the MMS DEIS report on Cape Wind
11 is flawed. It grossly understates or ignores
12 negative impacts to the environment, public
13 safety and the economy. On the environment:
14 The harbor environment is fragile and as an
15 example, in the late '80's there was saltwater
16 intrusion in Sesachacha Pond, located in
17 Quidnet on the eastern shore of Nantucket.

18 Conservationists and
19 environmentalists decided that it would be
20 prudent not to open the pond to the ocean
21 twice yearly, as had been done for centuries,
22 starting with the Indians. For 10 years the
23 pond remained closed. In that time, the
24

Cape Wind Energy Project - March 11, 2008

1 erosion on the eastern shoreline was extreme.
2 Many homes in Siasconset were lost to the sea
3 by the strong waves of nor'easter storms, and
4 still today many are threatened.

5 The change seemed very small and
6 insignificant, yet the result was an economic
7 and environmental disaster. The sea floor
8 along the shore was altered as a result of the
9 flush not happening. A small and seemingly
10 insignificant happening, yet the result is
11 tragic.

12 How do we know that the building of
13 these 140 wind towers would not have an effect
14 on the ocean floor, on the fisheries, on the
15 wild bird life? Perhaps it requires more
16 thought than minimal impact.

17 Public safety. It is my
18 understanding that both air and sea, the
19 whirling and locations of the 140 wind
20 turbines will create a pepper effect on a
21 radar screen, or referred to as a black hole.
22 The DEIS has yet to hear from the Air Safety
23 Board for their opinion, as well as the U.S.

Cape Wind Energy Project - March 11, 2008

1 Coast Guard for their report.

2 How can you state that the safety
3 will only minimally be impacted if you have
4 not heard or seen the reports by the very
5 agencies which oversee these areas? Why is it
6 that the SSA and the Airport Authority are
7 negative about the safety of this project?
8 What do they know that you have not given
9 proper consideration to? Perhaps it requires
10 more thought than minimal impact.

11 Economy. Frankly, I am most
12 confused. Cape Wind says it will reduce the
13 cost of electricity to the Cape and Islands.
14 How is it then that experts who have done the
15 math suggest that our costs will double, and
16 with subsidies perhaps triple, as this project
17 has become much more costly than anticipated?

18 I agree that it is essential to
19 create alternative means for capturing and
20 producing energy. There are new thoughts
21 about tidal power, land-based wind power, and
22 just last night, deep water turbines, and
23 hopefully other means of capturing energy will
24

Cape Wind Energy Project - March 11, 2008

1 be devised.

2 We do thank Jim Gordon for making
3 us very aware that energy can be gathered by
4 alternative methods. However, should we
5 continue to build it if before all the
6 permitting is even completed we realize the
7 expense of the project outweighs the benefit?
8 Perhaps it requires more thought than minimal
9 impact.

10 I just wanted to say one other
11 thing that I happened to find, a quote, a very
12 old quote; it's Latin.

13 MR. MOORE: Finish up.

14 MS. TAYLOR: It says, "Deliberate
15 often; decide once." And I hope that perhaps
16 you could do that.

17 Thank you.

18 (Applause.)

19 MR. MCGREGOR: Good evening. My
20 name is Gordon McGregor. I have lived on
21 Nantucket on and off for four and a half
22 years. And since that time, from the moment I
23 came on the island, this topic has been the
24

Cape Wind Energy Project - March 11, 2008

1 hot topic that we have all been able to
2 discuss and dialogue. What I love about
3 tonight is that we represent an island of
4 choices, and we all stand here with a choice
5 to make.

6 We also are in an era and time of
7 change. We keep hearing everyone talk about
8 change. And the definition of change is to
9 make a shift from one to another. Make a
10 difference; cause a transformation.

11 Well, when oil is sold at \$109 a
12 barrel yesterday on the stock market, if we
13 are not going to make a change to let go of
14 oil and make a difference in this world, what
15 are we doing?

16 If you want to continue to pay a
17 hundred dollars a barrel, if you want to pay
18 more for gas and electricity, you have a
19 choice. But I'm saying it's time to change,
20 and that's what we are moving towards.

21 What are we waiting for? We are,
22 we have an opportunity to be leaders in
23 renewable energy and in clean energy. Do you
24

1 Cape Wind Energy Project - March 11, 2008

2 want to be leaders or followers? Let's be
3 leaders in this movement of change. We need
4 to make a decision. Not what it looks like,
5 but what it would do for the future of all of
6 our lives.

7 This wind farm has an opportunity
8 to allow us to make change. We hear the
9 slogan, "Save our Sound." I ask you now to
10 make a decision to save our earth.

11 Thank you.

12 (Applause.)

13 MR. MOORE: Number 25, Number 26,
14 Number 27.

15 MR. HEMMENWAY: Todd Hemmenway. I
16 am against it. This is about the wind, so
17 let's talk about the wind. I have been
18 sailing in Nantucket Sound for 50 years. And
19 over the last ten I have observed less wind.
20 The data March 8th, 1600 hours, wind south, I
21 read 18 knots to 22 knots. The Cape Wind
22 Horseshoe Shoal data tower posted 28 to 32.

23 March 9, 1400 hours, wind
24 northwest, I read 10 knots gusting to 20. The

1 Cape Wind Energy Project - March 11, 2008

2 tower posted 25 to 30. There is a clear 10
3 knot difference between the actual wind speed
4 and the data posted on the Cape Wind website.
5 This so-called data needs to be verified by an
6 independent and responsible, repeat
7 responsible, organization.

8 Also, if you feed phony data to the
9 feds, you could be indicted for perjury. If
10 you were actually serious about a
11 wind-generated electrical power, you put the
12 turbines on the Continental Shelf where there
13 is a constant supply of 25 knot wind all day,
14 all night, all year.

15 There is already a hydroelectric
16 plant in Quebec that provides some of New
17 England's power, that could be increased.
18 There is now the Blue H proposal. These
19 turbines would be offshore, 23 miles south of
20 the Vineyard with constant wind. These
21 turbines float, are constructed on shore, are
22 half the height and use two blades that turn
23 faster and produce more power.

24 The tips of the Cape Wind blades

1 Cape Wind Energy Project - March 11, 2008

2 will rise to 440 feet. At that height, the
3 horizon is 27 miles away, meaning that this
4 will be seen from Eastham, Chatham, Monomoy,
5 Nantucket, the Vineyard, most of the Elizabeth
6 chain, across Buzzard's Bay, up to Manomet,
7 and back to two-thirds of Cape Cod Bay.

8 This is an architectural travesty.
9 The devastation to tourism and jobs has been
10 much talked about. This is the most historic
11 marine place in the country. The Wampanoag
12 have been here longer than anybody. There
13 were Vikings here in 1100. The Pilgrims long
14 lived in Provincetown. The Venice mariners,
15 the entire trading globe. We were the whaling
16 trade in Nantucket. And let it not be argued,
17 the American Industrial Revolution, that is a
18 project worth talking about. The Cape Wind is
19 hot air.

20 (Applause.)

21 MR. MOORE: 26.

22 MR. INGLIS: My name is Robert
23 Inglis. I am a resident of Nantucket Island.
24 I rise to speak in favor of the Cape Wind

1 Cape Wind Energy Project - March 11, 2008

2 Project on Horseshoe Shoal. I offer the
3 following:

4 Much has been made to you of the
5 project's 40,000 gallons of transformer oil as
6 a hazard to the Sound's marine life. I am
7 comfortable with the transformer oil in this
8 wind energy project, considering that the oil
9 is confined in triple containment. Currently,
10 at any given time, it is not unusual to have
11 more than 40,000 gallons of fuel in Nantucket
12 Sound in the hulls of power vessels that is
13 confined by the one layer of containment of a
14 fuel tank from the Sound or the one layer of a
15 fuel tank from a bilge pump.

16 Since the transformer will be above
17 the impact zone of vessels and stationary,
18 concern for oil spills is more logically
19 directed toward power vessels traveling the
20 Sound. Further, if oil is recognized as a
21 potential environmental hazard, one might
22 consider that power generated by the Cape Wind
23 turbines will reduce regional fuel oil demand
24 by 95,000,000 gallons a year, lessening a more

Cape Wind Energy Project - March 11, 2008

1 likely source of spills by diminishing oil
2 barge traffic.

3 Much has been made of Cape Wind as
4 a for-profit operation using a public
5 resource, Nantucket Sound. I am comfortable
6 with Cape Wind's use of the Sound under the
7 terms of the review and permitting process by
8 the Minerals Management Service as the
9 authorized agency of the Department of the
10 Interior, to grant a lease to Cape Wind for
11 use of this public resource for the useful
12 life of this wind-generated energy project.

13 We currently have many public
14 resources in for-profit lease arrangements by
15 private
16 for-profit enterprises. Most notable in
17 relevance are fossil carbon resource
18 extraction sites where carbon-based fuel is
19 extracted from below the Earth's surface.

20 I approve of this wind energy
21 project enjoying the same privileges and same
22 review and lease arrangements. I point out
23 there is no resource extraction in the Cape
24

Cape Wind Energy Project - March 11, 2008

1 ferrous metal between a mass of copper
2 windings. This action generates electricity
3 whether the spinning ferrous metal mass is
4 driven by an internal combustion engine, hydro
5 power, a steam turbine or propeller blades.
6 The process requires a similar regulation of
7 the electricity and distribution of the
8 electricity by whichever means it is
9 generated.
10

11 Let us look at a comparison of Cape
12 Wind electricity and another generation source
13 that involves fossil fuel extraction from an
14 ocean oil or gas rig. The ocean fuel
15 extraction rig permitted to operate in a
16 public resource area successfully operates in
17 a potentially harsh and remote marine
18 environment, and permanently removes a
19 resource that is not only below the water, it
20 is below the sea bed.

21 Problems encountered below the
22 water's surface and below the sea bed are
23 difficult to deal with and sometimes result in
24 horrific carbon resource spills. The wind

Cape Wind Energy Project - March 11, 2008

1 Wind Project as in fossil carbon fuel
2 extraction. I am comfortable that the Sound
3 will not be altered beyond the useful life of
4 the wind generation project, because
5 decommissioning of the project and the
6 guaranteed financial instrument for that
7 decommissioning are required in the permitting
8 process.
9

10 I am confident we will have no
11 permanent loss of a public resource. I offer
12 that there is a public resource we all have a
13 right to enjoy and that is fresh clean air.
14 This wind energy project will enhance the
15 abundance of that resource by eliminating the
16 need for some polluting carbon source power
17 generation.

18 Much has been made, too, of the
19 infeasibility of power generation in a marine
20 environment, and the attendant unusually high
21 and impractical costs of maintenance. I offer
22 for your consideration that electric power
23 generation is achieved by relatively simple
24 means with little more than spinning a mass of

Cape Wind Energy Project - March 11, 2008

1 turbine operates in the same potentially harsh
2 isolation, but the working apparatus of the
3 wind turbine is accessible for all types of
4 maintenance.
5

6 The wind turbine is a complete
7 package of generation, harvesting only
8 something that cannot be seen or contained.
9 The oil or gas rig is only one link in a chain
10 of four links forming its power generation
11 package. All these four links require
12 maintenance and pose various hazards.
13

14 The rig's purpose is extraction.
15 We then have product transportation to
16 refinement of that carbon resource, then more
17 transportation to the location of the
18 combustion apparatus that spins the ferrous
19 metal in the copper windings, that generates
20 the electricity.

21 A simpler, more practical process
22 than what we currently accept as the status
23 quo in the oil or gas rig can be found in the
24 wind energy turbines such as we have proposed
in the Cape Wind project.

Cape Wind Energy Project - March 11, 2008

I put to you that I am in favor of the Cape Wind project 95,000,000 to 40,000.

(Applause.)

MS. BAKALAR: Good evening. My name is Tracy Bakalar and I am a director here to make a short statement on behalf of the board of the Chamber of Commerce on Nantucket.

The board of directors of the Nantucket Island Chamber of Commerce, with the majority of votes, is opposed to the location in Nantucket Sound of the wind farm that is proposed by Cape Wind Associates.

The Chamber's main concern is transportation safety and the economic impact as related to tourism, including the protection of the unique and pristine characteristics of Nantucket Sound and the surrounding communities.

Thank you.

(Applause.)

MR. MOORE: 29, 28?

MR. PAWA: My name is Matt Pawa, and my last name is P-a-w-a. I'm a lawyer; I

Cape Wind Energy Project - March 11, 2008

appeal and you drag out the process to try to disadvantage the developer economically. Sometimes it works. I know the game well. It's my privilege and pleasure to know that the environmental movement now, suddenly, stands on resonance of being able to say yes, to a developer, yes to a good development, that is positive for the environment.

I represent Clean Power Now as an intervenor in the state administrative proceedings. Probably will appear in federal proceedings as well, and for a citizens' group.

To be at a hearing in favor of the developer is a new thing, and it's an important thing, and it's happening because of the position that we find ourselves in now, with the twin threats of the energy security crisis and the global warming crisis, which, no doubt, is the greatest moral and social threat that our world is facing right now.

For these reasons, Clean Power Now

Cape Wind Energy Project - March 11, 2008

represent Clean Power Now. And while I cannot and will not take off my hat as a zealous advocate for my client, let me speak, if I may, from the heart, if anyone believes a lawyer can speak from the heart.

I grew up in upstate New York. I live in the Boston area now. I have had the privilege of living part-time, sometimes full-time, on the Cape Brewster area, and I have a deep love for the Cape and for Nantucket Sound, where I have gone sailing and boating.

I have been a lawyer now for the better part of 12 years. And during this time period I have represented a number of national environmental groups, as I do now, who are concerned about global warming as I am, which is why I have dedicated my life to this pursuit. I have also represented citizens' groups, and I know the game. When you are opposed to a developer, you file every legal challenge at every level of government: Local, state and federal. You file every

Cape Wind Energy Project - March 11, 2008

is supporting the project, and environmental groups and attorneys like myself all across the country are strongly supporting the project. And we commend the Department of the Interior for the excellent job it has done thus far in the federal review process, and we look forward to continuing participating in that process, to produce a first-rate product that can make sure that this absolutely vital project begins, and as soon as possible.

Thank you.

(Applause.)

MR. MOORE: We have been going about two hours, and we would like to take a 15-minute break so that you can use the restrooms, and so that Pat gets a chance to rest and not have to do the keyboard for another two hours. So come back in 15 minutes, and we will continue the hearing.

(Break.)

MR. MOORE: So Number 30. So I would like to have Number 30 here and -- so 29, 30, 31, 32, and 33. 33 is over here. 29.

Cape Wind Energy Project - March 11, 2008

1 MR. ROWLAND: My name is Scott
2 Rowland. I am a Nantucketer. I would much
3 rather be back in a workshop tonight than down
4 here talking about politics, but it is too
5 important of an issue. I haven't been
6 threatened by perjury for coming over budget
7 for any of my projects, so you guys don't have
8 it easy.

9 If we believe in the science that,
10 regarding global warming, and we believe in
11 the cost of burning fossil fuel, we can only
12 come to one conclusion, we need to decrease
13 our demand for energy. We need to find a way
14 of reducing it that doesn't wreak havoc on our
15 environment.

16 The practice of a one-way-street
17 consumption of the world's natural resources
18 must be abandoned if we are to survive as a
19 species. The stakes are high; the time is
20 now. Our motto for growth must be fashioned
21 in terms of sustainability, if we are to have
22 any hope of meeting the challenges that stand
23 before us.

Cape Wind Energy Project - March 11, 2008

1 This is not just a Cape Cod problem
2 or an American problem, but a global problem,
3 and we must think of it in those terms. All
4 of us must be willing to make sacrifices for
5 that of the greater good.

6 The residents of Cape Cod can now
7 all be called upon to make that sacrifice by
8 allowing Cape Wind to build wind turbines on
9 Horseshoe Shoals. This is our chance as a
10 community to make a difference; let's not let
11 it pass us by.

12 (Applause.)

13 MR. FOREGGER: My name is Doug
14 Foregger. I am a year-long Nantucket
15 resident. Everyone here is pro wind power.
16 This is just the wrong place for it.
17 Nantucket Sound should be a national park, not
18 a wind park. This is not a case of winning,
19 it's a case of preserving something as unique
20 as Yellowstone or Yosemite. I want to address
21 some of the problems with Cape Wind.

22 First, the environmental impacts.
23 You put 130 towers out there. I don't feel

Cape Wind Energy Project - March 11, 2008

1 the study has addressed all -- 400 feet high,
2 the airplanes and the light and the cityscape
3 that is going to create, these lights will
4 create, and their glow are going to do untold
5 damage. Rare bird species, disturbing their
6 nesting habits, et cetera. There is not
7 nearly enough done to understand the impact of
8 the lights.

9 We all here on both sides of the
10 issue have a sense of green guilt, and you
11 have heard that over and over again. There is
12 a solution. The solution is deep water
13 turbines, which we heard about tonight. I
14 implore you all to study that at greater
15 length.

16 Also, my family and I live near to
17 Tuckernuck and we go on there almost a daily
18 basis in the spring, summer and fall. Another
19 concern is navigation safety with the incoming
20 tide, the loss of power on our boat. We are
21 going to drift right into the center of these
22 monoliths; and I don't really feel we have
23 done enough to study, enough of a study on the

Cape Wind Energy Project - March 11, 2008

1 search and rescue aspects of, once you get
2 into what people have deemed here, the black
3 hole.

4 There is also a severe economic
5 impact that also hasn't been addressed here,
6 which are these lights. They are going to
7 impact the economy of the whole island. It's
8 the Gray Lady. We have this very low fog
9 ceiling. All these lights, 130, which I think
10 is times three, is going to bounce off of that
11 low cloud ceiling and it's going to light up
12 all of Nantucket. And I think there is going
13 to be an effect on tourists here. Some people
14 say, "Fine," some people say, "I'm not going
15 to go there, I am going to go to a place that
16 is more pristine."

17 I also think these turbines are
18 going to affect shore property values. This
19 is going to have a trickle-down effect on
20 carpenters, cleaners, everybody else. The
21 people who are going to do well here is the
22 developer with his tax credit. I think that
23 needs to be thought of long and hard.

Cape Wind Energy Project - March 11, 2008

MR. MOORE: Thank you.

MR. BUSSIERE: Thank you. My name is Robert Bussiere. I am from Mashpee. I am a proud co-founder of Wind Stop, a citizens' group opposed to industrialization of Nantucket Sound.

The DEIS has stated that the wholesale cost of generating electricity from this proposed project will be about three times the cost we have now. Based on that fact, why should we do this? Just that fact alone. We have, today, the benefit of the factual results of the wind generation efforts of Denmark, and they have cancelled their next three wind parks for 2008.

They have achieved their goal, 20 percent of electricity generated by wind, as well as 29 and a half cents per kilowatthour rates as reported in 2005 to the Department of Energy.

Again, the documented, a documented result. They also have had to sell their generated power to other countries because

Cape Wind Energy Project - March 11, 2008

for this plan. They won't and can't. In fact, the wind data used by the DEIS wasn't provided by Cape Wind, even though they have been allowed to collect it from their data tower for years.

Planned sites in Delaware and Long Island have been cancelled because of the lack of economic viability. Why does the developer think it's going to be different here?

In closing, I request that the DEIS deny the applicant a permit, based on lack of factual information used to represent generating capacities of this project.

At least when I buy a vacuum cleaner, I get a guarantee. There is no guarantee with Cape Wind. I am not prepared to turn the keys of Nantucket Sound over to anyone, and I hope you aren't.

Thank you.

(Applause.)

MR. MOORE: 32, 33, 34 and 35.

MR. WATTLEY: My name is Glenn Wattley, president and CEO of the Alliance to

Cape Wind Energy Project - March 11, 2008

they couldn't use it when needed. Again, documented fact.

Why in February of 2004 was there no output from their turbines? I don't know, but, again, documented.

Why do we ignore the fact that 130 megawatt wind turbines based on land on the Gaspe Peninsula in Quebec have only achieved 18 percent capacity, at best, in the five-year period since 2005?

The operator of that wind park stated that the electricity generated was nine and a half cents per kilowatthour more than if they had purchased it from the hydroelectric plant nearby. Documented fact.

There is a plethora of information available from sites around the world that actually show the results of wind power generation, and none of them support the claims here regarding the Cape Wind Project. We have heard that 79 percent of the Cape and Island electricity needs will be provided in this project. Show us the supporting facts

Cape Wind Energy Project - March 11, 2008

Protect Nantucket Sound. And I would like to address Appendix F, the alternative site analysis of ten sites, and the high cost of power that Cape Wind would generate. This analysis of alternative sites needs to include a deep water analysis.

While the analysis presented in Appendix F concludes that Cape Wind is not economically viable because the cost of power is so high, these cost estimates are likely too low.

The DEIS states that the estimated cost of producing electricity from the proposed wind project is above the regional New England market for electricity. The DEIS shows the cost of electricity to be \$122 per megawatthour. This compares to the regional southeastern wholesale market, to the southeaster wholesale Massachusetts market, of \$66 per megawatthour. The cost of Cape Wind is double the price of this market, and that includes the significant subsidies we will give Cape Wind.

Cape Wind Energy Project - March 11, 2008

1 Furthermore, the DEIS does not make
2 available the cost data and/or assumed capital
3 cost. But the capital is \$1.2 billion. It is
4 likely too low, given the escalation costs we
5 have seen with the cancelled offshore project.
6 And recent media coverage has put Cape Wind's
7 capital at approximately 1.6 billion. A
8 higher cost would drive the cost well above
9 the \$122 per kilowatt hour.

10 Other assumptions in Appendix F are
11 also questionable, and if corrected would
12 drive costs higher. For example, the
13 debt/equity ratio seems to be too much debt.
14 With more expensive equity, the overall cost
15 would increase. The debt current coverage
16 ratio is also too low with the risk of this
17 project. With larger debt coverage, the cost
18 would increase. If Cape Wind cannot get more
19 viable, we need an additional bond to remove
20 the project before the 20 years is up. This
21 bond should also be able to remove the project
22 even in year one, if possible.

23 The big question is, what is the
24

Cape Wind Energy Project - March 11, 2008

1 impact on our monthly bills on the Cape and
2 Islands? Well, the monthly impact would be
3 \$20, \$40. This is something that should be
4 examined to see the total economic impact of
5 Cape Wind. This is a question that should be
6 asked Cape Wind, "How much will our bills go
7 up?"

8 Thank you.
9 (Applause.)

10 MS. INGLIS: My name is Alison
11 Inglis. I am a Nantucket resident.

12 MR. MOORE: You are going to have
13 to speak a little closer to the mike.

14 MS. INGLIS: One of the most
15 disturbing aspects of the opposition to the
16 proposed wind farm is the not-in-my-backyard
17 objection on the aesthetic grounds.

18 Having lived on Nantucket for 46
19 years, I have been increasingly dismayed by
20 the development that is running loose. The
21 Island's many sacred places have been utterly
22 destroyed by the blatant placement of \$3
23 million homes on these pristine sites.
24

Cape Wind Energy Project - March 11, 2008

1 The sweeping vistas have been
2 forever marked by this ever-encroaching march
3 of development. As well, the downtown area
4 has been irrevocably changed by looming
5 edifices of the deluxe condominiums, the Great
6 Harbor Yacht Club, et cetera. These
7 gargantuan structures are much more visible
8 than the proposed wind turbines will be from
9 the Island.

10 While there are many legitimate
11 concerns about the proposed wind farm, I find
12 the aesthetic concern one of rank hypocrisy.
13 Why do you accept the blight already created
14 on the aesthetic character of Nantucket and
15 condemn the barely visible turbines of a
16 proposed wind farm that might serve to
17 mitigate some of the consequences of the
18 destruction already wrought on this no longer
19 pristine island?
20

21 I urge those of you whose main
22 objection to the wind farm is that of
23 aesthetics to consider instead the urgent need
24 for alternative energy both locally and

Cape Wind Energy Project - March 11, 2008

1 globally.

2 (Applause.)

3 MR. MOORE: Number 34.

4 MR. BISHOP: Hello. My name is
5 Charles Bishop, and I'm a frequent visitor to
6 the island. And I would like to speak to you
7 tonight on what I believe to be the
8 shortcomings of the DEIS.

9 In my opinion, the DEIS is flawed
10 in several significant respects, and requires
11 a supplemental report to address its
12 shortcomings. First and foremost, the Cape
13 Wind report is released before the federal
14 regulations governing offshore wind
15 development had even developed themselves.
16 This is not something that Congress had
17 intended.

18 Accordingly the DEIS review should
19 be suspended, in my view, until the
20 regulations have been established and the
21 public knows what to expect from the developer
22 like Cape Wind, and what to expect from MMS
23 from the development of offshore public land
24

Cape Wind Energy Project - March 11, 2008

1 trusts in proximity to your communities.
 2
 3 Second, several significant
 4 information gaps exist in the DEIS that were
 5 expected to be included. There were no Coast
 6 Guard terms and conditions for safe navigation
 7 in Nantucket Sound. There is no biological
 8 assessment, the cornerstone for evaluating
 9 potential effects on endangered bird species
 10 that occur in Nantucket Sound.

11 Also, the federally required
 12 consultation process on impacts to historic
 13 properties and vistas is missing and is only
 14 now just underway. These gaps are so
 15 substantial that the DEIS should not have been
 16 issued prior to their being addressed.

17 Third, the DEIS shortchanges
 18 discussions of mitigation points. It is
 19 imperative that details of any mitigation plan
 20 be presented to the public early on in the
 21 process so the people could respond. The
 22 build it now, fix it later theme that seems to
 23 be emerging from the agency by way of the DEIS
 24 is unacceptable to many people, including

Cape Wind Energy Project - March 11, 2008

1 Alliance to Protect Nantucket Sound. I'm also
 2 on the board of directors for the Preservation
 3 Society International, and I am on the
 4 advisory board of the Cape Cod Stranding
 5 Network.
 6

7 While I appreciate the efforts to
 8 pursue non-fossil-fuel-generated electricity,
 9 I am troubled by the potential impacts of the
 10 Cape Wind Project on the wildlife,
 11 particularly those in the Endangered Species
 12 Act and Marine Mammal Protection Act, that
 13 continue to be inadequately considered and
 14 misrepresented within the DEIS.

15 The DEIS acknowledges vessel
 16 strikes are a significant threat to large
 17 whales, yet without adequate reasoning
 18 concludes impacts are minor and offers no
 19 mitigation in the event the vessels are
 20 transiting in the vicinity of whales, or a
 21 strike occurs. Furthermore, interactions that
 22 could occur while in transit from Rhode Island
 23 or New Bedford are not considered.

24 The DEIS states that noise

Cape Wind Energy Project - March 11, 2008

1 myself.

2 I encourage and ask tonight for you
 3 to suspend the permitting process for Cape
 4 Wind until these fundamental issue areas are
 5 addressed, and until the supplemental DEIS or
 6 complete information can be released,
 7 reviewed, and responded to by the public.

8 Thank you very much.

9 (Applause.)

10 MR. MOORE: Which number?

11 MS. GRAHAM: 35 should be next.

12 MR. MOORE: Okay. 35, 36, 37 and
 13 38. If you could come up as quickly as you
 14 can.

15 Okay. 39. If they're not here, we
 16 can't wait.

17 Okay, 39.

18 Okay. 36, 38, 39 over here.

19 MR. DeCOSTA: 39.

20 MR. MOORE: Okay. 40. Here 41.

21 Okay, yes. Thank you.

22 MS. ROCKWELL: Good evening. My
 23 name is Heather Rockwell, and I work for the
 24

Cape Wind Energy Project - March 11, 2008

1 generated will be slightly higher than Level B
 2 harassment levels as defined by the Marine
 3 Mammal Protection Act, requiring permits, as
 4 this is a violation of the MMPA, but no
 5 mitigation strategies or impact studies are
 6 proposed.
 7

8 The proposed placement of Cape Wind
 9 is in an area rich with protected species
 10 including seals, sea turtles and marine
 11 mammals. It is important that any threats to
 12 these species be addressed before
 13 construction, and that continuous monitoring
 14 and mitigation measures be carried out through
 15 the construction and operation of Cape Wind.

16 This is especially important given
 17 the proposed placement of Cape Wind in close
 18 proximity to critical habitat for the
 19 federally-endangered North Atlantic right
 20 whale. One of our main concerns is that the
 21 impact of construction and operation on these
 22 animals, numbering only about 300, is not well
 23 understood.

24 Previous installations of offshore

Cape Wind Energy Project - March 11, 2008

1 wind turbines and studies of impacts on marine
2 mammals have focused primarily on toothed
3 whales. The impact of wind turbine
4 construction and operation on baleen whales,
5 particularly North Atlantic right whales, is
6 not well understood and needs to be addressed
7 in much greater depth by Cape Wind.

8 Finally, cumulative impacts
9 continue to be inadequately addressed. We
10 strongly feel that the potential impacts to
11 endangered species should be considered
12 throughout their migratory range, not simply
13 by addressing other proposed construction in
14 the immediate vicinity of the proposed site.

15 Critically endangered NA right
16 whales migrate from Canada to Florida. In
17 their migratory route, six offshore LNG
18 facilities have been approved for
19 construction, with four more proposed. At
20 least three additional wind plants are
21 proposed.

22 In 2007, the Bush Administration
23 issued a bill to boost aquaculture sites in
24

Cape Wind Energy Project - March 11, 2008

1 Squid, salmon and other small bait fish comes
2 right across this area. It filters through
3 the Sound through the entire summer months
4 until late November, and eventually, after it
5 lays its eggs, the young squid and other fish
6 and so on hatch and they flush out east to
7 around Great Point.

8 It is amazing the amount of bait
9 that comes out of the Sound, young fish or
10 juvenile fish, but predators follow around,
11 fluke, bonito. And all of this life
12 originates in the Horseshoe Shoal area.

13 During the two or three years of
14 construction time, this life is going to be
15 disrupted. Fish are very susceptible to
16 noise, the light, and there is going to
17 definitely be a bunch of that going on up
18 there.

19 After the project is done and
20 things settle down, I am very concerned that
21 at some point Homeland Security could decide
22 that this is actually an operational power
23 plant and close the entire area to any
24

Cape Wind Energy Project - March 11, 2008

1 federal waters, and this does not consider
2 sand and gravel mining or oil and gas leasing
3 on the OCS approved by the MMS. Nor does this
4 consider additional impacts such as pollution,
5 noise, habitat disturbance, vessel traffic and
6 entanglement.

7 Cumulative impacts are not
8 adequately addressed by simply reviewing other
9 proposed construction projects in the same
10 geographic area.

11 Thank you.

12 MR. DeCOSTA: My name is Bob
13 DeCosta. I am a second generation commercial
14 fishing and charter boat captain. My family
15 moved to Nantucket in 1967. I started working
16 the following summer at the age of 9, and this
17 is to start my fortieth season of fishing. I
18 spend 150 to 180 days a year on Nantucket
19 Sound. I don't hold any Ph.D., but I have a
20 pretty good idea of what goes on up there.

21 My concern in this project is that
22 all the life that we fish on during the summer
23 months comes up Vineyard Sound in early April.
24

Cape Wind Energy Project - March 11, 2008

1 traffic. At any given time they could
2 heighten security and this could be something
3 that would be very detrimental to all of us
4 who live and make a living on the water up
5 here.

6 The idea of the Blue H program that
7 I just heard today, and I am going to be
8 public, that I am going to publicly endorse
9 this project, whenever you put an offshore
10 platform in place, as you are probably very
11 aware of in the Gulf, we have the oil
12 platforms, large fish are actually attracted,
13 because they go for food, and their bait
14 source doesn't have a structure to collect on,
15 so all the small little bait fish in that
16 area, which we also fish, cling onto that.
17 Marlin and sharks will be attracted to these
18 platforms, giving us a better, actually a
19 better place to fish.

20 So I'm not against wind generation.
21 I think it's definitely the future. We have
22 to get away from fossil fuels. I'm just very
23 concerned about what kind of devastating, what
24

Cape Wind Energy Project - March 11, 2008

1 devastation happens to the habitat in the
2 Horseshoe Shoal area, and I just think that
3 there are better locations than could be
4 offshore from than this one.

5 (Applause.)

6 MS. LIPTON: My name is Barbara
7 Lipton, and I am happy to be here tonight. I
8 am a Nantucket resident.

9 I am very much in favor of the wind
10 power. I am not in favor of this in Nantucket
11 Sound; I think it's the wrong location. And
12 quite frankly, would prefer to see a wind
13 turbine in my actual backyard.

14 One of my concerns about this
15 project is it could create real problems in
16 getting the necessities of life to the
17 residents of Nantucket Island in the event
18 that the area -- the area is closed to
19 transportation due to turbine failure or for
20 maintenance purposes or Homeland Security.
21 The U.S. Government has yet to rule on that,
22 and I think it's premature to do that at this
23 public comment hearing today, with vital
24

Cape Wind Energy Project - March 11, 2008

1 to be endangered or near extinction are trying
2 to survive in the waters of Cape Cod.

3 While the monopoles are driven into
4 the sea bed there are also going to be
5 hundreds of miles of turbines linked between
6 the surface area and the mainland, completely
7 tearing away the bottom of the sea in that
8 area and changing their habitat.

9 Electromagnetic fields have been an
10 issue that has been neglected in your report.
11 Although the installation of these turbines
12 has the probability of realizing some initial
13 damage to the environment, the long-term
14 effects from the water alone would be harmful,
15 as there have never been wind farm turbines
16 located in water inhabited with these
17 sound-sensitive and endangered species, and
18 potential of disaster exists.

19 Your focus is on noise emitted from
20 a single turbine, not the cumulative noise
21 level of the entire project. Specifically
22 your report says "Since the turbines will be
23 spaced 360 feet apart, there will be no
24

Cape Wind Energy Project - March 11, 2008

1 pieces of information missing.

2 In addition, I think the economic
3 impact of Cape Wind has been seriously
4 affected. Comparing this area to the two
5 places in Denmark are unrealistic; Denmark's
6 economy is driven by the production and
7 exploration of energy technology, while
8 southeast Massachusetts is tourism.

9 The comparison of world-renowned
10 destinations such as Cape Cod and Nantucket,
11 Martha's Vineyard and unheard-of spots in
12 Denmark do not add up to two million tourists
13 in Denmark, compared to southeastern
14 Massachusetts, which has 22 million tourists
15 per year. No other offshore power plant has
16 ever been placed in such a tourist-dependent
17 location such as Nantucket Sound.

18 Another area of concern which is
19 not adequately covered in your report is that
20 this project would be a realization of
21 extinction for some critically-endangered
22 species. That means that many species of sea
23 turtles, mammals, fishes which are considered
24

Cape Wind Energy Project - March 11, 2008

1 cumulative noise." That is an error that
2 needs to be addressed.

3 Your calculations are based on the
4 hearing abilities of humans. Sound generally
5 travels eight times farther underwater, and
6 fish sensitivities to sound are significantly
7 more than humans', more than this
8 25-square-mile area.

9 MR. MOORE: Thank you very much.
10 (Applause.)

11 MR. MOORE: 41? 42 over here, 40.
12 You're 41; are you 41?

13 MR. GERMINARA: Yes, I am.

14 MR. MOORE: Okay, 40.

15 MR. SANDERS: Hello, I'm Grant
16 Sanders. I have only been a resident of
17 Nantucket for 14 years, but I have been a
18 citizen of the planet Earth my entire life.

19 I'm not here because I'm angry, and
20 I'm not here because I'm scared or worried.
21 I'm not here because I am envious of some
22 developer harnessing wind to make money. I am
23 here because of another emotion, and that is
24

Cape Wind Energy Project - March 11, 2008

1 hope. I hope that we can do the right thing
2 for our planet, for our environment, and for
3 our future.

4 I've taken a look at the Draft
5 Environmental Impact Statement, and from what
6 I could tell from reading all the available
7 information, there is only a single reason to
8 oppose Cape Wind that's valid, from what I
9 could see, and that is aesthetics.

10 Maybe you won't like the way this
11 wind farm is going to look, and I think it's
12 because they are looking at it in the context
13 of Nantucket Sound. Nantucket Sound is a
14 natural place, and the wind farm is a
15 mechanical thing. But I think the context we
16 should look at this project is, should be much
17 larger than Nantucket Sound or even the Cape
18 and the Islands.

19 For example, I may not like the
20 look of turbines in Nantucket Sound, but I
21 also don't like the look of an oil spill off
22 the coast of Alaska. I also don't like the
23 look of a strip mine in West Virginia.

Cape Wind Energy Project - March 11, 2008

1 And I don't like the look of the
2 black lung in coal miners, or the \$2 billion
3 in coal miner death benefits the federal
4 government has paid out to date. I don't like
5 the look of our federal energy policy, or of
6 wars in the Middle East waged largely or in
7 part due to our need for cheap energy.

8 So I think when you take a look at
9 the Cape Wind Project in the context of these
10 other aesthetic issues, Cape Wind is not
11 looking really too bad.

12 I hope that you see fit to permit
13 this project, and that we go and get to work
14 building the next one.

15 Thank you.
16 (Applause.)

17 MR. MOORE: 41.

18 MR. GERMINARA: My name is Len
19 Germinara, and I washed ashore on Nantucket
20 almost four years ago.

21 Before I came here, what I knew
22 about Nantucket could be summed up in a
23 postcard. That postcard had a red and white

Cape Wind Energy Project - March 11, 2008

1 lighthouse on it, and below it it said,
2 "Nantucket." Nantucket was known as the place
3 where the lamps of the world were filled. And
4 the light from that lamp shone on the entire
5 country, and perhaps on the entire world.

6 At this time we are faced with the
7 same kind of situation that Nantucket was
8 faced with when they hunted the whales almost
9 to extinction; we are out of oil. We need an
10 alternative. We need an alternative that is
11 renewable.

12 We need to be considerate of not
13 only ourselves, but of the generations to
14 come. And for that I am challenging Nantucket
15 to light the lamp of the world again, and make
16 that light a hope. Make that a light that
17 will shine for the next 150 years, next 250
18 years.

19 I ask you to consider making this
20 project a reality, and I hope that you will.
21 And I ask that all of the energy that has been
22 expended both pro and con against this project
23 and for this project be redirected toward, not

Cape Wind Energy Project - March 11, 2008

1 this project, but for the hope of this planet.

2 Thank you.
3 (Applause.)

4 MR. MOORE: 42 and 43, if you will
5 get ready, please.

6 MS. McCALLEY: My name is Adrienne
7 McCalley. I washed ashore here in 1925. I
8 have been here ever since. I have lived here
9 for 50 years as a year-round resident, and I'm
10 pretty unhappy about this whole project.

11 I didn't bring a prepared speech
12 with me, but I did want to focus in on one
13 point. I'm just here saying, and obviously
14 our body of water around here is a great
15 attraction to cruising and sail and powerboat
16 people.

17 It's a mecca; Nantucket is a mecca,
18 and its body of water is a mecca. We sponsor
19 the Nantucket Community Sail, a group that has
20 done a lot to get the Nantucket children
21 sailing. They have the Upper House Cup and
22 the Nantucket Race Week.

23 Over 120 boats participate; most of

Cape Wind Energy Project - March 11, 2008

1 them from other places. They all have to
2 cross the Sound coming and going. This, this
3 event has brought a lot of money here. It has
4 brought, in the last ten years, almost a
5 million dollars, and probably top over a
6 million this summer.

7 I live here. I have concern, as
8 many of my fellow sailing enthusiasts, that
9 this kind of activity will be terminated by
10 this project. Sailors don't like this kind of
11 thing, really. They don't want to find an
12 open body of water that is filled with
13 turbines.

14 Now, as far as the Figawi race is
15 concerned, a lot of people don't understand
16 sailing. You could only go in a straight
17 course with the wind behind you. If you are
18 going towards the wind farm you can't do that,
19 you have to zig and zag or you are going to
20 run right into the wind farm, and that is
21 going to totally alter their race course, I
22 would think, if the wind is in a certain
23 direction.

Cape Wind Energy Project - March 11, 2008

1 waving over land and sea. And speaking of
2 pollution, the residents of Cape Cod and the
3 Islands have too long been subjected to tall
4 tales of woe and destruction; the innuendo,
5 the red herrings, the lies in the newspaper
6 and on the radio.

7 Fabrications such as, 75 percent of
8 the fish caught in Nantucket Sound are caught
9 on Horseshoe Shoals. Cape Cod boaters, Cape
10 Cod's radar would be rendered ineffective
11 because of the turbines. The turbines bring
12 predatory species to the area. We will pay
13 more for electricity because of Cape Wind.
14 The project will decimate our tourism
15 industry. Real estate values will plummet,
16 especially in Nantucket.

17 Ferries will collide with each
18 other and recreational vehicles. Massive
19 numbers of collisions will occur in this
20 project. The Coast Guard will not be able to
21 come to the rescue.

22 The project will not help reduce
23 our dependence on foreign oil and fossil
24

Cape Wind Energy Project - March 11, 2008

1 So all in all, I am just concerned
2 about the impact this could have, because of
3 the amount of money that is raised from these
4 people coming here. It's not only the
5 sailors, it's the people who come with them,
6 that go ashore. They shop; they go to
7 restaurants. They just patronize everything
8 on the island. They bring an awful lot of
9 money; probably thousands of dollars. I think
10 this could have an impact on it. That's it,
11 thank you.

12 (Applause.)

13 MR. MOORE: Thank you very much.

14 MR. BECKHAM: My name is Steven
15 Beckham (phonetic). I have lived on Cape Cod
16 and Nantucket almost all of my 57 years. For
17 the better part of my life I have continued to
18 sail and powerboat Nantucket Sound. I travel
19 back and forth many times a week on
20 commercially-operated planes and fast ferries.

21 I can see the brown-yellow smog
22 coming from Great Point traveling up the
23 coast, and the plume from the Canal plant
24

Cape Wind Energy Project - March 11, 2008

1 fuels. The project will not reduce the amount
2 of pollution we breathe. And my all-time
3 favorite, you will be able to see turbines
4 from Hyannis. You guessed it, another lie by
5 the opponents.

6 Now the opponents stuck in this
7 baloney sandwich on white bread, of magically
8 a deep water turbine coming through to an area
9 near you, to see if you will fight. They are
10 desperate to protect their view. I have had
11 enough of this. The air we breathe, the food
12 we eat every day are polluted and becoming
13 much more so each and every day.

14 Cape Wind is an opportunity for our
15 communities to start to reverse this
16 catastrophic environmental disaster we are
17 bequeathing to our children and our
18 grandchildren to suffer.

19 I heartily support this project and
20 trust MMS will have the forbearance and
21 strength to prudently completely review and
22 ultimately put their stamp of approval on this
23 historic and magnificent project.
24

Cape Wind Energy Project - March 11, 2008

1 Thank you for listening.
 2 (Applause.)
 3 MR. MOORE: 44, 45, 46, 47, 48, 49,
 4 50, 51, 52.
 5 What number are you?
 6 MR. VIGIL: 50.
 7 MR. MOORE: 50.
 8 And your number?
 9 MS. RAY: 49.
 10 MR. MOORE: What number are you?
 11 MS. DINEEN: 51.
 12 MR. MOORE: Okay, 51.
 13 MS. RAY: I feel like I should yell
 14 "Beano."
 15 MR. MOORE: Bingo.
 16 MS. RAY: My name is Edith Ray, and
 17 I have been involved in various capacities
 18 with marine mammals, sea turtles and birds for
 19 almost all of the 30 years I have lived here
 20 on Nantucket year-round.
 21 I have really enjoyed hearing
 22 friends and neighbors speaking on both sides
 23 of this issue, and I really do respect their
 24

Cape Wind Energy Project - March 11, 2008

1 opinions. One of the things that I really
 2 want to make sure that you guys don't go away
 3 with is the thought that everybody on
 4 Nantucket is worried about the whole NIMBY
 5 thing. You have heard a lot of talk tonight
 6 about seeing these things in our waters. I
 7 hope you realize that that is not what most of
 8 us are here to talk about, and that is not our
 9 major concern.
 10 I have very quickly looked through
 11 a lot of the DEIS report. I have not taken it
 12 to bed and studied it every night, but I
 13 notice that a lot of the findings in your
 14 report come from modeling things such as a lot
 15 of information about birds and whether they
 16 are going to whack into things, such as
 17 produced by Hatch and Brault, I think the name
 18 is. And I think that all of us here, including
 19 yourselves, have heard the term, garbage in,
 20 garbage out. These models and what they
 21 produce are only as good as the information
 22 that goes in.
 23 And I really hope that in your
 24

Cape Wind Energy Project - March 11, 2008

1 reviewing this project, from both sides,
 2 you're going to really question who has the
 3 supplied that data that went into those models
 4 to produce the results. As you all know, many
 5 of us in the audience realize this, the
 6 proponents of this project have an awful lot
 7 of money; their livelihood is at stake.
 8 Other are vastly underfunded that
 9 might like to go and do studies on right
 10 whales or sea turtles or terns or the variety
 11 of the other critters that live in Nantucket
 12 Sound. They don't have the funding and they
 13 haven't had the time to raise the money to
 14 produce studies to put into your modeling.
 15 What you have before you is a
 16 snapshot only, a snapshot of what goes on in
 17 Nantucket Sound. Yes, this project seemingly
 18 has gone on forever, but specific studies have
 19 only been done for a short period of time;
 20 only a few field seasons.
 21 You all realize, too, as we do, the
 22 difficulty in gathering information in
 23 inclement weather. Someone else referenced
 24

Cape Wind Energy Project - March 11, 2008

1 170 days in the fog, and who knows in the fog
 2 how many birds are going to whack into those
 3 towers. You have incomplete data, in my
 4 opinion, on the actual structure, the lighting
 5 and construction and its impact on mammals,
 6 sea turtles, endangered sea ducks and, yes,
 7 even the tweetie birds, such as migratory
 8 birds.
 9 In ending, I actually, really urge
 10 you guys to take the time to gather specific
 11 data from a wide variety of sources before you
 12 make your decision.
 13 MR. MOORE: You need to finish up,
 14 please.
 15 MS. RAY: And I want you to have a
 16 complete picture of our beloved Sound.
 17 Thank you.
 18 (Applause.)
 19 MR. MOORE: Thank you very much.
 20 Yes, sir. This is 50.
 21 MR. VIGIL: Good evening, ladies
 22 and gentlemen.
 23 My name is Dr. Jerome Vigil. I
 24

Cape Wind Energy Project - March 11, 2008

1 have been a summer resident on Nantucket for
2 25 years. I would like to come here more, but
3 I'm just too busy. I was a research scientist
4 at the MIT Energy Lab in the late '70's. I
5 also later went on in life, I became a heavy
6 electrical and utility contractor, and I came
7 to Nantucket in 1983 to build the electrical
8 aspects of the Steamship Authority Terminal
9 and never left. So I believe I have standing
10 in going forward and discussing the aspects of
11 this hearing. My concerns are both technical
12 and policy-oriented.

14 But first let me speak about what
15 my six-year-old grandson Zack has said in a
16 phone conversation with my son. I overheard.
17 He says, "You don't get it. You don't get
18 it. You don't get it." And my paraphrase to
19 that is, we all just don't get it. We don't
20 get it.

21 And what I mean by that is this
22 energy policy that has been developed is very
23 poor. Cape Wind has been allowed to go
24 forward with no regulation from the

Cape Wind Energy Project - March 11, 2008

1 government. I think it's inherent upon us to,
2 all the residents of the Cape and Islands,
3 that we have input, and that we share and
4 benefit from the classes in energy that's
5 produced by Alternative Energy.

7 Someone is hopefully going to look
8 at the excellent model the Town of Hull, Mass.
9 has developed. They all worked collectively
10 to develop a program where all the town
11 residents benefit from the energy that is
12 produced.

13 I have a friend that lives in Hull,
14 and his whole home is electric, and his
15 electric bills are small in comparison to what
16 we pay for energy. I implore MMS to
17 restructure their energy policy to include
18 citizens of our country, especially those in
19 the Cape and Islands, ratepayers that will be
20 affected.

21 Thank you.

22 MR. MOORE: Thank you very much.
23 (Applause.)

24 MR. MOORE: 51.

Cape Wind Energy Project - March 11, 2008

1 MS. DINEEN: Hi. My name is Kate
2 Dineen, and I am a proud employee of the
3 Alliance to Protect Nantucket Sound.
4 Firstly, I would just like to
5 denounce the slew of very personal attacks
6 against me and my organization this evening.
7 I would like to encourage everyone on both
8 sides of this very emotional debate to keep
9 their testimony focused on what we are here to
10 discuss tonight. In case you have forgotten,
11 it's the very specific DEIS. So now I am
12 going to discuss some technical issues, so
13 bear with me; it is important.

15 The DEIS does not correctly address
16 Cape Wind's actual role in the Mass. Renewable
17 Portfolio Standard, or RPS. This legislation
18 requires all retail providers of electricity
19 in Massachusetts to supply a certain
20 percentage of power from renewable sources.
21 The Mass. Division of Energy Resources issues
22 an annual report on RPS compliance. The most
23 recent report raises serious questions about
24 the reality of RPS benefits from constructing

Cape Wind Energy Project - March 11, 2008

1 Cape Wind.

3 Specifically, the report projects
4 that Cape Wind alternative energy projects
5 already in the pipeline will supply an
6 increasing share of RPS obligations,
7 potentially reaching 100 percent in the next
8 two years. In fact, the OER perceives the
9 possibility that supplies will approach
10 meeting demand during 2007 and 2008 alone.

11 The report also states that
12 renewable supply would come from a wide
13 variety of sources, including landfill methane
14 plants and biomass plants in Canada and the
15 United States.

16 In addition to 178 megawatts of new
17 capacity in 2007, another 121 megawatts is
18 expected to come on line in 2007 and 2009.
19 These additions by themselves equal 21 percent
20 of the capacity projected by Cape Wind. And
21 the DOER expects to receive applications for
22 still more wind capacity, based on new acts.

23 The most likely impact of Cape Wind
24 would be to back out more environmentally

Cape Wind Energy Project - March 11, 2008

1 desirable projects, rather than encourage
2 alternative energy.

3 In general, Cape Wind will not be
4 needed for the RPS program to succeed. This
5 program is already successfully encouraging
6 wind development on the same scale of Cape
7 Wind, but without the devastating
8 environmental costs of this project. Together
9 we should aggressively pursue renewable energy
10 projects that are supported and embraced by
11 the communities like Nantucket that they will
12 impact. Cape Wind gives wind power a bad
13 name. Let's reject this irresponsible project
14 and do it right.

15 Thank you.
16 (Applause.)

17 MR. MOORE: 52, 53, 54, 55, 56.

18 MR. COHEN: My name is Steven
19 Cohen. I'm an attorney here on Nantucket, but
20 I am just representing myself tonight.

21 Now, it drives me crazy when people
22 say that the idea of this being in the wrong
23 place is some sort of NIMBY. My house, which
24

Cape Wind Energy Project - March 11, 2008

1 technologies to do it out there, but there is
2 almost no risk as compared to a great risk in
3 the Sound I think is substantial.

4 The other thing I think is the DEIS
5 does not look at the level of dependency of
6 the Cape and Islands on the Sound for the sole
7 option of all of the necessary connections to
8 the mainland. If the Sound is messed up, we
9 can't just take a different road; the
10 airplanes can't go somewhere else; the boats
11 can't go elsewhere; the fishermen can't go
12 someplace else. That's it. We only have one.
13 You can't take a detour.

14 Also, most of the resources that
15 MMS deal with, the coal and oil, can only be
16 taken from the spot they are in, but wind can
17 be harvested anywhere. So we should be
18 looking at, can we do this in a place where
19 there is a low or no risk to the area, or can
20 we do it in a place where -- can we do it in a
21 place -- it's not whether or not can we do it
22 here, it's can we do it somewhere else without
23 all these problems; and because wind can be
24

Cape Wind Energy Project - March 11, 2008

1 I am so blessed to have, is located between
2 Nantucket Memorial Airport and an asphalt
3 plant. I can assure you that my views will
4 not be marred by this.

5 The problem with Cape Wind is that,
6 and you have already heard of the details, but
7 it's going to have, I think, terrible impacts
8 on environmental, fishing, recreational,
9 transport and economic necessities in
10 Nantucket Sound.

11 And I think the problems with the
12 DEIS report are that it doesn't look at the
13 aggregate risks, it only looks at the level of
14 risk compared to other areas offshore. So
15 even though there might be a small level of
16 some risk, but large levels of other risk,
17 what I think you also should be looking at is
18 how many risks there are here as compared to
19 other areas. Because basically outside of
20 Nantucket Sound there is almost no risk to
21 anything.

22 It's more expensive to do it out
23 there, we might have to employ other
24

Cape Wind Energy Project - March 11, 2008

1 done basically anywhere, why do we have to
2 take all these risks to Nantucket Sound where
3 we might not be able to recover; where we
4 might have 25 years of some problem? Where
5 doing it somewhere else has no problem and the
6 same benefit at no cost. It's the same.

7 MMS would never allow Cape Wind to
8 put these turbines in Yellowstone National
9 Park, or right outside the Newark, New Jersey
10 port, for obvious reasons. I don't know why
11 you would do the same thing to Nantucket
12 Sound. It's not that there are rich people
13 who come here and even have fancy homes with
14 open vistas, it's just that we live here and
15 we need it.

16 Millions of people depend on that
17 Sound. And it's also an environmentally
18 pristine area that should be preserved. I'm
19 against --

20 MR. MOORE: You have to finish up.

21 MR. COHEN: The last thing is I'm
22 against it for the same reason as drilling in
23 Alaska. It's not in my backyard, but it's a
24

Cape Wind Energy Project - March 11, 2008

1 non-renewable resource that shouldn't be
 2 ruined for short-term gain.
 3 (Applause.)
 4 CHRISTINA: Hi. My name is
 5 Christina, and I would like to speak on the
 6 visual impact of the proposed Cape Wind
 7 Project. The DEIS treatment of the visual
 8 resources is totally inadequate. More than
 9 120 miles of shoreline of open views of the
 10 proposed project are largely unassessed.
 11 The DEIS recommends Cape Cod
 12 depends on recreation, and the highest
 13 aesthetic quality of the Cape Cod natural and
 14 cultural resources is important to its
 15 popularity as a recreational destination.
 16 However, there is no assessment of how the
 17 scenic degradation caused by the proposed
 18 project will affect the local economy.
 19 The DEIS also inaccurately reports
 20 the visual impact assessment. The technical
 21 visual impact study of the Cape Wind Project
 22 found that every location of the project would
 23 be adversely affected. This report evaluated
 24

Cape Wind Energy Project - March 11, 2008

1 views for the project from 23 locations. Of
 2 these, there were no views of the project in
 3 three locations. Three additional sites were
 4 not evaluated because no historical property
 5 was affected. The views from all 17 remaining
 6 locations were determined to have an adverse
 7 effect from the wind turbine.
 8 This shows how severe the aesthetic
 9 impact will be on locations as far as 14 miles
 10 away. But in the DEIS when the results of
 11 this report were presented, most of these
 12 categorizations are totally reversed and
 13 labelled as having no adverse effect.
 14 For example, in the DEIR and FEIR,
 15 impacts on Nantucket and Nantucket Sound are
 16 classified as adverse impact. However, this
 17 was reversed in the DEIS with no adverse
 18 affect, as mentioned. In fact, in an
 19 overwhelming 13 instances of the 23 examples
 20 given, the classification was reversed.
 21 I respectfully request that MMS
 22 acknowledge the significance of the visual
 23 impacts on Cape Cod and the Islands, as well
 24

Cape Wind Energy Project - March 11, 2008

1 as evaluating the local effects to our local
 2 economies.
 3 Thank you.
 4 (Applause.)
 5 MR. MOORE: 54, 55, 56, will be
 6 over here, please.
 7 MR. BLAKE: Hi. My name is Lyman
 8 Blake, and I thank you for the opportunity to
 9 speak.
 10 I see the green light. The red
 11 lights seem to work pretty good. And that is
 12 why it's hard to stop, we don't have a stop
 13 light.
 14 I am happy to see that you're able
 15 to take all the different opinions that are
 16 available to you, and I certainly applaud your
 17 perseverance and commitment towards coming to
 18 a resolution of this issue. And I hope that
 19 we resolve this. In fact, mostly everybody
 20 here is actually in favor of this project, as
 21 long as it gets a green light from you.
 22 The issues that people are
 23 concerned with are certainly important, and
 24

Cape Wind Energy Project - March 11, 2008

1 they certainly should be. My personal
 2 opinion, from my own research of all of this,
 3 is that I am in favor of this project, and I
 4 feel that any of the issues that need
 5 mitigation can be successfully mitigated. And
 6 I would urge that the process be thoroughly,
 7 obviously, studied, but also with expedient
 8 studies so that the project could begin. We
 9 could be having six years of data of this
 10 project already being working, any issues and
 11 problems would be already resolved, and we
 12 could see how this particular form of energy
 13 can be renewed.
 14 I feel that it is necessary not
 15 just to clean off this site in particular, not
 16 to think about alternative sites, but as has
 17 been stated before, for additional sites. We
 18 need every place that we could possibly use to
 19 utilize for alternative forms of energy.
 20 I hope that you also are able to
 21 take into consideration the larger issues of
 22 the world environment, not only globally, but
 23 social and cultural, and that you apply that
 24

Cape Wind Energy Project - March 11, 2008

1 to this, because it really does transcend any
2 of the small issues that we have in terms of
3 our local environment. We need to be able to
4 protect our home, which is the entire planet.

5 Thank you for your time and taking
6 on this particular task. I urge you,
7 obviously, to support it.

8 (Applause.)

9 MR. MOORE: Thank you very much.
10 Next.

11 MR. TAYLOR: My name is Mike
12 Taylor. I am a resident of Nantucket. I
13 would also like to thank you for coming and I
14 hope -- I disagree with his characterization.
15 Rather than saying we hope, it's okay as long
16 as you all take care of it, I think there are
17 a lot of people here in my position, as well.

18 I support alternative energy
19 production, but I oppose this project, and I
20 would hope that you would as well. You have
21 heard tonight from people more qualified than
22 me, representing the Airport Authority, the
23 Steamship Authority, former Coast Guard

Cape Wind Energy Project - March 11, 2008

1 centers, and they are all unused.

2 Why don't we, in the near term, try
3 out 180 wind towers on these median strips?
4 Let's save our unspoiled resource called
5 Nantucket Sound until it's a matter of
6 national security and we need to use it.

7 Yes, it's easy to develop power on
8 Nantucket Sound or we wouldn't be talking
9 about it. But even easier is this vast
10 under-utilized, already altered resource
11 called median strips that go throughout this
12 country, that are near the people we are
13 trying to service.

14 I would urge you to consider that
15 before approving this. Thank you.

16 (Applause.)

17 MR. McGUIRE: I'm Number 56.

18 MR. MOORE: It always helps to
19 know.

20 MR. McGUIRE: My name is William
21 McGuire, and after listening to everybody here
22 tonight, I think I misunderstood the
23 assignment.

Cape Wind Energy Project - March 11, 2008

1 officers. They are all concerned about one
2 thing, safety.

3 Just two or three weeks ago we had
4 an LPG tanker floating around off Chatham
5 without power for a couple of days. Adjacent
6 to these windmills are places, sea lanes,
7 where oil tankers, ferries, all kinds of boat
8 traffic go back and forth, and accidents do
9 happen.

10 Now, these questions of safety,
11 feasibility, economic impact and environmental
12 impact all persist in spite of all the years
13 and the studies, and I propose that it doesn't
14 make sense to proceed with the gamble when
15 there is an abundant alternative resource
16 where the towers could be relocated. Where
17 these won't exist.

18 We have thousands, thousands and
19 thousands of miles of interstate highways in
20 this country. In between the two roads that
21 make up interstates are the median strips in
22 almost all neighborhoods, and they are in
23 close proximity to power lines, population

Cape Wind Energy Project - March 11, 2008

1 I have been a resident of Nantucket
2 for 25 years now, and I'm pretty much growing
3 weary of this debate. We had this discussion
4 four years ago, three years and four months,
5 but it's like four. And at that time Cape
6 Wind was a good idea. Now, I'm sure it was a
7 great idea, and I still feel that way, it's
8 still a great idea for it today.

9 As you all know, we do not have
10 renewable resources; we are running out. And
11 we knew it then and we know it now. On 9/11,
12 the cost of a barrel of oil was \$25. When we
13 stood here four years ago it was \$35; the
14 other day it was 109.

15 Instead of embracing Cape Wind for
16 its obvious and prudent benefits, instead of
17 believing the opinings of the DEIS, it appears
18 to me that some people would rather have sons
19 and daughters or fathers and husbands and our
20 brothers and sisters serve on foreign soil.
21 And I ask for what?

22 Are they dying for another barrel
23 of oil? Are they dying so we could continue

Cape Wind Energy Project - March 11, 2008

1 to keep our air and water and our soil? Cape
2 Wind, by itself, is not enough to correct our
3 pollution problems or correct global warming;
4 it's not enough to catch up with other nations
5 in the world who are taking these important
6 issues seriously; but I believe that it is
7 enough in the United States to get started
8 toward a pollution-free solution.

9 Some say Cape Wind will be an
10 eyesore. I, for one, will view the wind
11 turbines as every American, with pride and as
12 a symbol. As it was in 1776, the wind
13 turbines will be to me the symbol of American
14 independence, American pride, its ingenuity.
15 And they will reflect the sacrifices that they
16 have made possible, and they will reflect the
17 sacrifices that make them possible, while also
18 symbolizing my hope for continued --

19 (Applause.)

20 MR. McGUIRE: Hope for the future.

21 MR. MOORE: Thank you very much.

22 57, 58, 59 and 60, please. 57 is

23 Mr. Bob Thompson.

Cape Wind Energy Project - March 11, 2008

1 allowed to fly in 500 feet below the clouds.
2 The tops of the windmills are going to be
3 approximately 470 feet. That's going to put a
4 50-foot, 30-foot buffer for the aircraft
5 flying below the clouds.

6 The airports of Hyannis, Nantucket
7 Sound and Martha's Vineyard form a perfect
8 triangle. There are approximately 400 flights
9 per day that go back and forth. It's pretty
10 much a straight line in the two areas. They
11 are going to come right through there. That
12 means that they are going to have to go
13 around, stay apart. That is going to be a
14 huge chunk of air space that is going to be
15 closed during those conditions when we, in the
16 summertime, anybody who has lived here knows,
17 that we have between the Cape and Islands.

18 I had other questions. Who is
19 actually going to build the wind farm? Is
20 Cape Wind really going to build it or are they
21 obtaining a license and then going to sell it?
22 Are we going to deal with somebody entirely
23 different?
24

Cape Wind Energy Project - March 11, 2008

1 MR. THOMPSON: I have been a
2 resident here for 30 years. I came here as a
3 traffic controller, so I speak in a couple of
4 parts. Technology. Is the technology really
5 developed at this point? I am for wind power,
6 but is the technology there for the wind farm
7 to be in? An example. The FAA installed
8 radar and it's a well-known fact the antenna
9 was installed at Nantucket. It has an
10 expected life of 15 to 20 years. Actually,
11 after approximately five years Westinghouse
12 engineers came out and looked at it and had to
13 replace it immediately because of the erosion
14 impact of building on Nantucket Sound and
15 building at sea. That's why the windmills
16 have to be careful. That's why the zone is
17 there now, to protect the antenna.

18 Is there going to be -- you know,
19 technology is not there for the wind farms.

20 Secondly, as a traffic controller,
21 the Cape and Islands spend many, many days
22 with a
23 thousand-foot ceiling. Air traffic is now

Cape Wind Energy Project - March 11, 2008

1 Thank you.

2 (Applause.)

3 MR. MOORE: 58, 59. 59?

4 MR. JUDSON: 59.

5 MR. MOORE: Okay. 60, 60 over
6 here, 61, 62. Are you 62? 63, 64.

7 MR. JUDSON: My name is Nick Judson
8 and I want to thank you for the opportunity to
9 speak tonight.

10 I am currently employed as the
11 executive director of the Nantucket Sound
12 Community Sailing and I've spent most of my
13 life in and around the waters of Nantucket
14 Sound. Tonight I am here speaking for myself
15 and not as a member of any organization. Most
16 importantly, I want to let it be known I am in
17 favor of alternative sources of energy. And
18 in my job, one of the primary roles that I
19 play comes down to safety; safety for people
20 we are putting out in the water and having to
21 back that up and monitor that.

22 And that's where some of the
23 questions I have and some of the questions
24

Cape Wind Energy Project - March 11, 2008

1 come from. I have concerns that the DEIS
2 statement does not adequately address a number
3 of topics, concerns. That it does not look at
4 radars in the windmills. As stated earlier,
5 Nantucket Sound is unique in that we have fog
6 and high winds. This is a concern if small
7 boats cannot be picked up by radar, especially
8 by larger craft that have lesser ability to
9 maneuver.

11 I have concerns that the deep reefs
12 that we see have not been addressed, and how
13 they, as well as the ice floes we see on
14 Nantucket Sound, will affect these structures.

15 I have concerns about the reduction
16 in navigable water between Nantucket Sound and
17 Hyannis. The windmills would force smaller
18 boats in with larger, and when this mix occurs
19 often accidents will happen. Mixing fog, high
20 winds and the experience level of many of our
21 weekend warriors and the listing goes on.

22 I strongly encourage that these
23 issues be addressed more thoroughly and
24 comprehensively, and above all, no decision be

Cape Wind Energy Project - March 11, 2008

1 boats, is the only deep water in the channel
2 going through Nantucket Sound, and the flight
3 paths of the airplanes and general aviation.
4 On a clear day that is fine, but as we all
5 know, when the fog sets in, the tide runs, the
6 wind continues to blow, and then night falls,
7 very often you are in a place you'd rather not
8 be; this happens often. We now rely on radar,
9 which is an issue that is under controversy.

11 We have been hearing both sides, but I
12 believed, two years, three years ago, I don't
13 remember when, I believed it would definitely
14 be an issue especially on the water.

15 So anyway, this hasn't been settled
16 and sooner or later, inevitably an accident
17 will occur. Now it's time for the search and
18 rescue, which I believe is going to be very
19 difficult at best.

20 And also, it's going to be a heavy
21 burden on the Coast Guard, which they do their
22 damnedest in all kinds of weather, they send
23 up a helicopter, it's a beautiful day, the
24 boat's on the water and again, we have this

Cape Wind Energy Project - March 11, 2008

1 made. I'm sorry, no decisions be made on this
2 project until the Coast Guard and FAA studies
3 have been completed and reviewed.

5 I want to thank you for your time.
6 (Applause.)

7 MR. MOORE: Thank you very much.

8 MR. KAIZER: 62.

9 MR. MOORE: 62, thank you.

10 MR. KAIZER: Good evening,

11 everybody. I'm a little late, but my name is
12 Pete Kaizer. I have been here for 35 years.
13 Mostly on the water, above, below and under
14 it. I have been a pilot, salvage diver, also
15 a commercial fisherman slash charter boat. I
16 am very familiar with the Sound. It's been
17 good to me, very good to me, as well as
18 surrounding waters.

19 Also, the concept of alternative
20 energy, I believe, is a no-brainer. Everyone
21 on this island, I believe, is in favor of it,
22 which they should be. Unfortunately this
23 project, which is proposed in the busiest spot
24 in Nantucket Sound, adjacent to the ferry

Cape Wind Energy Project - March 11, 2008

1 issue, the radar. I believe it's going to be
2 an issue.

4 So anyway, I have a statement to
5 make. Technology owes the ecology an apology.
6 With that it follows: The beginning of April.
7 Historically Nantucket Sound has been known
8 for the largest spawning ground for squid on
9 the East Coast. They return because of a
10 thing called site fidelity, which means they
11 return to where they were born, Nantucket
12 Sound. Following close are the scupper and
13 sea bass, which also spawn in Nantucket Sound.
14 Then come the fluke, the bluefish and the
15 strikers, all in hot pursuit of the elusive
16 squid, which at this point in time they have,
17 will, and hopefully in the future, they all
18 arrive through Vineyard Sound directly and
19 through Horseshoe Shoals, which is where you
20 hear all the talk about the fishing.

21 That is a very highly productive
22 place, which is, we often call, the nursery.
23 Here lies an epic problem. If the squid no
24 longer return to this area, due to the

Cape Wind Energy Project - March 11, 2008

1 industrialization of this shoal, it will
2 reflect to the fishing and marine life of all
3 the whole Cape and Islands, possibly forever,
4 and I wouldn't wish this legacy on any
5 commission. I would look back at George
6 Bassett's feeling about the ice, epic damage.

7 MR. MOORE: You need to finish up,
8 please.

9 MR. KAIZER: And, also, this area
10 has been designated as an essential fish
11 habitat.

12 MR. MOORE: Thank you. Thank you
13 very much.

14 (Applause.)

15 MR. MOORE: Next speaker.
16 What number are you?

17 MR. MORIARTY: 65.

18 MR. MOORE: Thank you very much.

19 MR. LANG: I'm 64.

20 MR. MOORE: We have got 64 somehow
21 here.

22 MR. LaFRANCE: 61 over here.

23 MR. MOORE: Who's here, 64? 64

Cape Wind Energy Project - March 11, 2008

1 We've all agreed on that. However, Nantucket
2 Sound is an inappropriate location for such a
3 project as this, as it is one of New England's
4 busiest waterways for transportation, pleasure
5 boating and fishing and the Coast Guard, as
6 well as the air traffic.

7 Nantucket Sound is no place to
8 construct a project of this magnitude and
9 complexity. It has been well established that
10 we are, that there are alternate locations, as
11 Whitey Willauer pointed out, and that a wind
12 farm could be constructed that would pose no
13 hazard to navigation and air traffic.

14 I believe it would be very
15 irresponsible to construct such an industrial
16 facility in the very center of Nantucket
17 Sound, that is used by so many pleasure
18 boaters and sources of transportation.

19 This is not a case of not in my
20 backyard, this is a case of possibly allowing
21 a hazard to be created that would put my
22 generation and my children's generation at
23 risk in years to come. I am all in favor of

Cape Wind Energy Project - March 11, 2008

1 goes here. Come on down.

2 MR. LANG: I didn't prepare a
3 statement, I just made some notes.

4 My name is Robert Lang. I live on
5 Nantucket Sound with my wife and my two
6 daughters. Nantucket has been my year-round
7 home for 35 years next month.

8 Thank you for coming to Nantucket
9 for your concerns. After listening to the
10 many concerned citizens this evening, I now
11 have more concerns than ever; but I'm going to
12 try to focus on the most important concern to
13 me, and what I think is the most important
14 concern to all of us, and that is public
15 safety.

16 We have heard from the Coast Guard,
17 we have heard from the Steamship Authority
18 representative, that the Coast Guard has not
19 got all the reports yet, and we implore this
20 board to at least evaluate that before any
21 decisions are made.

22 This is not a question of whether
23 or not we need alternative resources. We do.

Cape Wind Energy Project - March 11, 2008

1 wind energy, and I have been for many years,
2 but not at the risk of public safety, when
3 alternate locations are clearly available.

4 The Cape Wind Project where planned
5 would be a huge public safety hazard. Please
6 encourage them to build it in a more
7 appropriate location.

8 Thank you very much.

9 (Applause.)

10 MR. MOORE: Thank you.

11 65.

12 MR. MORIARTY: 65.

13 Good evening, everyone. My name is
14 Dave Moriarty, a lifelong resident of Cape
15 Cod. And I just want to say I love Nantucket.
16 You know, I remember this as my most favorite,
17 you know, my fourth grade and we were going on
18 a field trip, and we were going to the Whaling
19 Museum, and I just want to say that was one of
20 my most favorite field trips in my whole life,
21 except for the National Seashore, but that's
22 another story. But anyway, I just want to
23 read a little statement I have for you, and if

Cape Wind Energy Project - March 11, 2008

1 there is any time left I would like to add a
2 few comments.

3 It is in my humble opinion that I
4 state my adamant opposition to this
5 irreversible historical and economic damage
6 that would be caused to all my friends and my
7 family that depends on this vital and
8 irreplaceable Sound.

9 People have been coming here for
10 hundreds of years, not to see the wind
11 turbines, but to see the beautiful, pristine,
12 majestic, unique national treasure that I
13 happen to call my home. This is where I get
14 everything I need to sustain my life from,
15 from the Sound, and a lot of people in this
16 room, too. I hope you will take that into
17 consideration.

18 I consider the Sound to be the
19 National Bank of the Cape and Islands; secured
20 and protected by the citizens for the
21 citizens. It used to be that way, until now.
22 Obviously, you guys are here, and we can't
23 protect our own home anymore for some reason;
24

Cape Wind Energy Project - March 11, 2008

1 won't be long, you guys will have all kinds of
2 projects to work on. You will have nothing to
3 worry about. That's coming. It's only what,
4 nine months? You could hang in there, can't
5 you? We sure can.

6 Okay.

7 MR. MOORE: It's about time.

8 MR. MORIARTY: Oh, no. Anyway, the
9 risk is much too high; the return is much too
10 small. Our way of life depends on your
11 critical consideration.

12 Thank you very much.

13 (Applause.)

14 MR. MOORE: 66, 67, 68.

15 MR. KURKER: 67. My name is Wayne
16 Kurker, and I am the owner/operator of the
17 Hyannis Marina for over 30 years.

18 We have all heard the pros and cons
19 of marine safety and commercial fishing, but
20 the fact is that all the major users,
21 professional mariners of this waterway, agree
22 that Cape Wind will make this waterway unsafe
23 for navigation. The ferry line and steamship,
24

Cape Wind Energy Project - March 11, 2008

1 I don't know why.

2 But the Sound, the pearl of the
3 Eastern Seaboard, it's life-sustaining
4 perfection in motion, home of Nantucket
5 whalers, land of Wampanoags, providing and
6 sustaining life for Cape and Islanders, summer
7 after summer, year after year, generation
8 after generation, like clockwork. Our economy
9 depends on it.

10 So let us not forget who we are,
11 for we are Americans. We can do anything,
12 can't we? I hope so. Anybody out there?
13 This we can achieve.

14 (Applause.)

15 MR. MORIARTY: We can achieve
16 energy independence if we truly set our minds
17 and our resources to doing so. We can,
18 because we are Americans. We don't have to
19 ruin a beautiful, a natural historic site. We
20 are Americans. We can do this somewhere else.
21 There are other alternatives for us, okay?

22 It won't be long before big oil is
23 pushed out the door of the White House. It
24

Cape Wind Energy Project - March 11, 2008

1 the Hi-Line both agree; the commercial
2 fishermen agree. The pleasure boaters agree;
3 the marina operators agree; we all agree it
4 will be unsafe.

5 However, for over six years we have
6 reached out to Cape Wind, and for over six
7 years Cape Wind has responded to us by
8 dismissing our concerns or by responding with
9 insincere or unrealistic solutions.

10 Let me read you one quick example
11 of Cape Wind's solution relative to bringing
12 radar into this. This is a quote directly
13 from Cape Wind's Revised Navigation Risk
14 Assessment Executive Summary. Page 4,
15 Paragraph 3. Cape Wind's report says, quote,
16 "To avoid collisions with other vessels in and
17 around the wind park, mariners will need to
18 scrutinize more closely radar data received,
19 to identify vessels that may be temporarily
20 masked by radar echoes, either true or false,
21 from wind turbine generators," end quote.

22 This is so misleading it's
23 unconscionable, because the radar experts
24

Cape Wind Energy Project - March 11, 2008

1 agree that no matter how closely you
2 scrutinize a radar screen, you simply can't
3 see other boats or buoys or anything if they
4 are in the shadows or silos of turbines.
5
6 Cape Wind's navigational risk
7 assessment also dismisses the commercial
8 fishermen's concerns. With all of the
9 evidence that we have submitted over the last
10 six and a half years, I hope you understand
11 that the commercial fishermen have stated
12 right along that these are the most important
13 fishing grounds within the Sound, and they
14 fish virtually the entire triangle.

15 There aren't many shallows or many
16 areas that they really have to avoid. It's
17 not a shallow area, as is represented, to you
18 that's useless to these fishermen. The
19 commercial fisherman are opposed to the wind
20 farm, and their association of the Mass.
21 Fishermen's Partnership representing 17
22 fishing organizations is opposed because they
23 say, quote, "trawling amongst 130 turbines
24 spaced one third to one half a mile apart

Cape Wind Energy Project - March 11, 2008

1 addressing the DEIS with one comment. On Page
2 2, Paragraph 3, you made a mistake. It
3 actually was reversed. I'll read it. "The
4 life of offshore turbines is much higher than
5 land-based turbines." In fact, the life for
6 offshore is five to ten, and more than likely
7 the lesser, and land-based are 20 years. You
8 reversed it.

9
10 Next, I want to address the
11 audience and anyone that is remaining here
12 that has brought up the renewable energy and
13 doing away with oil and coal. And I just, I
14 can't believe that in this day and age, people
15 don't understand that it's not going away.
16 The wind turbines are a definite item we are
17 going to be dealing with in the future.

18 Electricity uses two percent of the
19 oil consumed in this country; 68 percent of
20 the oil is for transportation. The oil is
21 converted into gasoline. Out of that
22 conversion process something is born called
23 carbon. Carbon is now being used to create
24 what is called carbon fiber. Carbon fiber is

Cape Wind Energy Project - March 11, 2008

1 would be hazardous or impossible," end quote.
2
3 These same commercial fisherman say
4 that if they are forced to coexist with a wind
5 farm, the turbines need to be spaced at a
6 minimum of one to one and a half miles apart,
7 so they could safely turn between -- the
8 fishermen don't want this wind farm at all,
9 but if you are going to force them to work and
10 make a living in that area, at least give them
11 the spacing they need between these turbines
12 so that we aren't -- so that they could remain
13 making a living.

14 Thank you.
15 (Applause.)

16 MR. MOORE: Thank you very much.
17 68, 69, 70, 71, 72, 73, 74, 75, 76,
18 77, 78. Okay.

19 MS. MURPHY: Hi. My name is
20 Roberta Murphy.

21 First of all, I want to thank you
22 very much. We needed a breath much of fresh
23 air in this room.

24 I am going to start out by

Cape Wind Energy Project - March 11, 2008

1 now the number one hot commodity on Wall
2 Street. It's what's keeping this country
3 going.

4
5 We're on the verge of economic
6 collapse. We are being fed with money from
7 the Arab nations. Kuwait and Singapore just
8 invested millions into Citigroup. Lehman
9 Brothers is ready to fold unless they go the
10 same route.

11 Wind is the new investment in this
12 country, so it will be growing. However, we
13 have to be smart about it. If we want to go
14 green, get off the grid; hunker down; get
15 solar; do other things, but the wind is not
16 going to go away. There will be a grid, but
17 you can't complain about the oil consumption
18 because it's not going to stop.

19 We just got a new bleed in from
20 Libya, and in order to keep us growing, we are
21 going to keep doing it.

22 That's it. I have 30 seconds left
23 if somebody wants to use it.

24 (Applause.)

Cape Wind Energy Project - March 11, 2008

1 MS. DOWLING: Hi. My name is
2 Rachel Dowling. I'm a resident of Nantucket
3 for about ten years. And this really has been
4 an interesting evening and interesting four
5 years, because I, like somebody at the
6 beginning of the evening, I was with the
7 Alliance for Nantucket Sound four years ago,
8 and I have studied this thing. I'm not going
9 to say that I have been taking every document,
10 you know, to bed with me to read at night, but
11 I have been trying to pay attention and trying
12 to use my head.

13 I think it is obviously a very
14 tough issue for us, because it's such an
15 emotional issue. And when you are talking
16 about a historic island that is a historic
17 landmark, it's a very unique environment.
18 People have a lot of pride about that, and
19 it's understandable.

20 Why do people come to Nantucket, if
21 not for the quality of life here, for the
22 peace of mind, for the beautiful sea, and the
23 sunrise in the morning, and the birds, and all

Cape Wind Energy Project - March 11, 2008

1 energy for the past 25 years, that I can
2 remember, but when are we going to finally do
3 something about it?

4 To me, I really don't understand
5 the point of view of this aesthetic blight on
6 the horizon, because, you know, I just don't
7 get that. I find that, you know, they are
8 really not that bad to look at if you can't
9 really see them. And, you know, when you sort
10 of look at the picture that is up there, and
11 then sort of try to visualize the turbines, I
12 mean, already the boundaries between the sky
13 and the sea are kind of blurred. I don't
14 really see that happening.

15 Okay, I got my stop sign, so I'm
16 just going to say, everybody should just think
17 about this really hard. So thank you.

18 (Applause.)

19 MS. CHARDER: My name is Ara
20 Charder. I'm a resident for 31 years now,
21 almost 32. Thank you for coming to Nantucket
22 and allowing us to share our thoughts so that
23 we may be part of your decision-making.

Cape Wind Energy Project - March 11, 2008

1 of that?

2 But I'm just going to ask people to
3 think about what is the risk and what is the
4 benefit, and does the benefit outweigh the
5 risk?

6 I've heard some people say that
7 they can't visualize it. They see this
8 project costing us more money in the long run.
9 I find that really, that particular piece to
10 be very difficult.

11 Yeah, maybe to offset the initial
12 cost of the development, but in the long, long
13 run, I think we would really be saving
14 ourselves in a very big way. And I just, you
15 know, I hear, I keep hearing these comments,
16 "The wind is still going to be there."
17 Everybody who has stood up here tonight has
18 said, "I am all for wind energy, but..."
19 There has got to be a time when we stop saying
20 "but".

21 You know, I, I am a child of the
22 '70's. I'm 41 years old. We have been
23 talking about finding renewable sources of

Cape Wind Energy Project - March 11, 2008

1 Green energy; everyone here said
2 yes. This meeting has had the opportunity to
3 hear from Al Peterson, from Nantucket Memorial
4 Airport, with concerns for radar; with
5 concerns for safety. George Bassett, with
6 concerns for preservation of our pristine
7 waterway. From Chris Lohmann, with hopes to
8 protect our environment, and public interest;
9 from Ted Taylor and many others. The question
10 of viability in this project, they all depend
11 on our viable waterway. Why risk it?

12 Please consider deep water energy.
13 Tonight we heard from Blue Water USA. It's an
14 option. Wind energy in an area with more
15 constant wind, transportation safety, our
16 utmost concern. Wind energy installed on
17 ground, possibly ground already owned by the
18 U.S. Government, such as Otis.

19 Please, save our unspoiled
20 resources, tide. If we harness this energy,
21 could this effect an increase or at least a
22 slowdown of further shore erosion? Green
23 energy, yes; wind farm, as proposed by Cape
24

Cape Wind Energy Project - March 11, 2008

1 Wind, no.

2 I wish to repeat the quote shared
3 by Sandy Taylor tonight. "Deliberate often;
4 decide once."

5 Thank you.

6 (Applause.)

7 MS. FITZ-GIBBON: 78. Good
8 evening. My name is Bonnie Fitz-Gibbon and I
9 have been a

10 year-round resident of Nantucket for 25 years.
11 I want to talk tonight about the
12 risks of the proposed Cape Wind Project, and
13 what guarantees this private developer would
14 be required to make to the public.

15 The Cape Wind Project would be the
16 first offshore wind plant in the United
17 States. Why build this wind plant, this first
18 wind plant, in a national treasure, and take
19 all the risks?

20 The Cape Wind Project relies on a
21 brand-new technology. 3.6 megawatt turbines
22 have never been used on a commercial scale.

23 Secondly, existing offshore wind

Cape Wind Energy Project - March 11, 2008

1 There is no experience in the world

2 to date with decommissioning offshore wind
3 projects, and MMS should be prepared for the
4 possibility of large costs to the taxpayer
5 associated with the abandonment of such a
6 project.

7 If this project is to be considered
8 at all, MMS needs to require a specific plan
9 for decommissioning to protect the public from
10 incurring these costs, and to protect us from
11 a defunct project sitting in the middle of
12 Nantucket Sound.

13 In ending, and on a more personal
14 note, and I will speak quickly, I would like
15 to say that the risks involved are neither
16 short-sighted or short-term, as Cape Wind
17 asserts. We are simply dealing with too many
18 unknowns.

19 I believe that the environment
20 movement is fueled by heartbreak; heartbreak
21 over loss, destruction and extinction. To
22 take a very rare, pristine and beautiful piece
23 of our environment and destroy it to make an

Cape Wind Energy Project - March 11, 2008

1 parks have experienced problems in the past.
2 I have read that two major offshore wind parks
3 in Denmark have had serious operating problems
4 due to mechanical issues and due to the fact
5 that their environment is a harsh one.

6 What if we allow this massive plant
7 to be built on our beautiful Nantucket Sound,
8 and then the wind power fails? What happens
9 when the plant needs to be removed at the end
10 of its useful life? Will we endure months of
11 repairs, as is the case in Denmark? Who will
12 cover the cost of the repairs? We should not
13 take the risk of a new technology in the
14 Sound.

15 At a minimum, provisions for
16 repairs and dismantlement must be made. How
17 much will Cape Wind need to guarantee and to
18 post up front? MMS needs to ensure that the
19 developer has made separate arrangements so
20 that when the plant needs to be dismantled,
21 there will be sufficient funds to do this,
22 which are separate from the funds for the
23 building and operating of this plant.

Cape Wind Energy Project - March 11, 2008

1 energy statement to the world that will
2 provide a modest, if not negligible, economic
3 gain is a crime against the heart of any true
4 environmentalist. It's a little like robbing
5 Peter to pay Paul. And the loss here does not
6 mirror the gain, and I ask you to please not
7 allow this project to go forward.

8 Thank you.

9 (Applause.)

10 MR. MOORE: Thank you.

11 79.

12 MR. GROSS: 75.

13 MR. MOORE: Pardon me, 75.

14 Is there a 79? Is there an 80? Is
15 there anyone above 80?

16 Okay, I think you have the last
17 word.

18 MR. GROSS: My name is Jim Gross.
19 I have been here for 35 years; a little while.
20 I have been a commercial fisherman; I have
21 been in the marine engine business. Right now
22 I'm in the generator business, and I see what
23 happens with land-based generators and how

Cape Wind Energy Project - March 11, 2008

1 long they last, and they don't last long
2 enough.
3
4 But you have to look at what's
5 going on out in the Sound. When the glacier
6 made Nantucket 23,000 years ago, the glacier
7 was 1200 feet tall. It came down and it
8 stopped on Nantucket. It burped and it made
9 Nantucket, and it started melting.

10 And what you have south of the
11 island, or from Saul's Hill, which is the
12 middle there of the island, south, is the
13 outwash part. And all the debris and the sand
14 and the silt and the rocks float out to the
15 south.

16 Down to the south it goes. You go
17 150 miles and you go out to the Continental
18 Shelf and it goes right down to 6,000 feet.
19 Other than that it's about 150 on the way out.

20 So the glacier, as it melted back,
21 it receded 18,000 years ago. It got back to
22 Cape Cod and it moved again. It started
23 moving forward, made the Cape and started
24 receding.

Cape Wind Energy Project - March 11, 2008

1 So on the Cape we had the same
2 thing. As the glacier melted all that sand
3 and rocks and all that stuff made the Sound,
4 the water level came up 300 feet, and that's
5 what it is today.

6
7 But in doing this, what you've got
8 out there, bedrock underneath Nantucket is
9 1500 feet down. On the Vineyard it's about
10 850 feet. As you drive to Boston, as you get
11 to Plymouth you see bedrock on the side of the
12 highway. So what you've got out in the middle
13 of the Sound is all sand. And you've got a
14 two or three knot current in the sand moving
15 around all the time. But the windmills are
16 going to be 440 feet tall, and of that they
17 are going to put 80 feet -- they're going to
18 drive a 20-foot piling into the sand, 80 feet.
19 So you've got one-sixth in the sand, and
20 you've got about five-sixths up in the air.
21 So once you go up in the air, then they have a
22 300-foot fan on this thing spinning around,
23 all right?

24 The winds we have here are not

Cape Wind Energy Project - March 11, 2008

1 constant. We don't get an east, west, summer,
2 winter wind like they do in California and
3 Arizona where the wind farms are, we get it
4 all around. The other day it was blowing 40
5 out of the southwest. But what we get is not
6 constant. We get a buffeting; it's a gust.
7 So it was more than 40, and then it gusts to
8 60. So that's going, you know, everything is
9 gusting and moving.

10
11 And then two days ago we had a
12 northeast breeze that was blowing 40, and it
13 was gusting to 60 again, but that's a
14 different direction. And then it comes around
15 northwest. So it's moving all around. And in
16 doing this, this hole in the glacial outwash,
17 which is sand, they are eventually going to
18 start losing their footing.

19 And then you have got the tide.
20 The tide flows six hours one way, and then it
21 flows six hours the other way. And back in
22 the '70's, when we got a lot of ice, it froze
23 all the way to Hyannis. It has done it a few
24 times. But that ice on those pilings is going

Cape Wind Energy Project - March 11, 2008

1 to adhere to them, and as George or anyone
2 around here has seen a piling in the ice, as
3 the tide changes, as the tide goes up, at the
4 bottom, as low tide freezes, as the tide comes
5 up, it pulls the pilings out of the ground.

6
7 MR. MOORE: It's about time.

8 MR. GROSS: And you've got a whole
9 lot of pilings to pull out of there. And as
10 the ice is moving, it bends over.

11 It's a great idea, but you have to
12 do it on land for longevity. 20 years is not
13 a long time. Thank you.

14 (Applause.)

15 MR. MOORE: Thank you very much.

16 Yes?

17 One more speaker. No, we don't,
18 okay.

19 It's been a long evening. Tonight
20 we have heard some very important comments and
21 some very important concerns from different
22 views, and those will be taken into
23 consideration by the Minerals Management
24 Service.

Cape Wind Energy Project - March 11, 2008

We also encourage you to submit by e-mail or by snail mail or meetings tomorrow, which would be in Martha's Vineyard, or in Boston, the new location, which is the Clark Gymnasium, to come and to submit your views on these issues.

So we want to thank you a lot, and I don't know whether MMS or Bob wants to say anything, or should we just end our evening?

MR. LaBELLE: Thank you very much.

MR. MOORE: Drive safely and avoid the traffic lights.

(Time ended 8:55 p.m.)

Cape Wind Energy Project - March 11, 2008

C E R T I F I C A T E

I, Patricia A. Bucko, Registered Professional Reporter in the Commonwealth of Massachusetts, do hereby certify that the foregoing record is a true and accurate transcript of my stenographic notes taken on March 11, 2008 in the above-captioned matter.

Patricia A. Bucko, RMR

<p style="text-align: center;">\$</p>	<p>146 [1] - 71:5 15 [5] - 64:24, 70:17, 70:18, 109:19, 163:11 15-minute [1] - 109:16 150 [5] - 34:10, 127:19, 136:18, 190:17, 190:19 1500 [1] - 191:9 16 [4] - 15:14, 65:2, 70:18, 89:10 1600 [1] - 98:20 17 [3] - 81:13, 155:6, 178:21 170 [2] - 79:23, 145:2 1700-page [1] - 43:10 1776 [1] - 162:13 178 [1] - 149:16 18 [5] - 15:14, 60:8, 81:14, 98:21, 115:10 18,000 [1] - 190:21 180 [2] - 127:19, 160:4 1843 [1] - 37:3 185,000 [1] - 49:24 1880's [1] - 39:10 19 [1] - 81:14 19.2 [1] - 24:7 1924 [1] - 63:5 1925 [1] - 137:8 1951 [1] - 39:11 1967 [1] - 127:16 1976 [1] - 35:14 1979 [2] - 51:10, 56:14 1980 [2] - 39:2, 39:8 1983 [2] - 10:16, 146:8 1991 [1] - 63:7</p>	<p>126:23, 149:10, 149:17, 149:18 2008 [5] - 1:11, 19:20, 114:16, 149:10, 195:10 2009 [1] - 149:18 2025 [1] - 49:21 21 [3] - 81:14, 88:10, 149:19 21st [1] - 19:17 22 [5] - 38:8, 88:10, 90:2, 98:21, 131:15 23 [5] - 75:20, 88:10, 99:19, 155:2, 155:20 23,000 [1] - 190:6 24 [2] - 38:8, 88:10 24-square [1] - 79:13 24-square-mile [2] - 79:7, 80:9 25 [9] - 38:8, 98:13, 99:2, 99:13, 146:3, 153:5, 161:3, 184:2, 186:11 25% [1] - 47:14 25-square-mile [1] - 133:9 25-year [1] - 74:9 250 [1] - 136:18 26 [2] - 98:13, 100:21 27 [5] - 13:10, 39:2, 39:8, 98:14, 100:3 28 [2] - 98:22, 106:22 29 [4] - 106:22, 109:24, 114:19</p>	<p>34 [2] - 116:22, 121:4 35 [8] - 24:17, 49:11, 116:22, 123:12, 123:13, 167:12, 171:8, 189:20 36 [2] - 123:13, 123:19 360 [1] - 132:24 37 [1] - 123:13 38 [3] - 32:19, 123:14, 123:19 39 [4] - 123:16, 123:18, 123:19, 123:20</p>	<p>142:13, 147:24 52 [2] - 142:5, 150:18 53 [1] - 150:18 54 [2] - 150:18, 156:6 55 [2] - 150:18, 156:6 56 [3] - 150:18, 156:6, 160:18 57 [3] - 139:17, 162:23 58 [2] - 162:23, 165:4 59 [4] - 162:23, 165:4, 165:5 5:00 [1] - 2:2 5:01-8:55 [1] - 1:12</p>
<p style="text-align: center;">,</p>				
<p>'70's [2] - 146:5, 183:23</p>				
<p style="text-align: center;">1</p>	<p>1 [6] - 1:1, 32:11, 32:15, 45:6, 45:15, 65:19 1,000 [1] - 66:5 1-195 [1] - 1:1 1.2 [1] - 118:4 1.5 [1] - 59:17 1.6 [1] - 118:8 10 [8] - 1:14, 38:21, 59:9, 69:13, 89:4, 93:23, 98:24, 99:2 100 [3] - 34:5, 45:17, 149:7 109 [1] - 161:15 11 [5] - 1:11, 59:9, 62:21, 62:22, 195:10 1100 [1] - 100:13 115 [1] - 15:16 12 [4] - 30:6, 59:9, 64:24, 107:15 120 [2] - 137:24, 154:10 1200 [1] - 190:7 121 [1] - 149:17 13 [6] - 15:10, 59:9, 64:24, 66:2, 67:21, 155:20 13.3 [1] - 74:18 130 [6] - 15:13, 16:14, 111:24, 113:10, 115:7, 178:23 14 [6] - 59:10, 64:24, 70:17, 70:18, 133:18, 155:10 140 [2] - 94:14, 94:20 1400 [1] - 98:23</p>		<p style="text-align: center;">4</p> <p>4 [2] - 32:12, 177:15 40 [8] - 72:13, 89:15, 123:21, 133:12, 133:15, 192:5, 192:8, 192:12 40,000 [3] - 101:5, 101:11, 106:3 400 [3] - 15:13, 112:2, 164:9 400,000 [1] - 80:8 41 [6] - 123:21, 133:12, 133:13, 135:18, 183:23 42 [2] - 133:12, 137:5 43 [1] - 137:5 43-story [1] - 79:13 44 [1] - 142:4 440 [2] - 100:2, 191:16 45 [3] - 75:21, 81:18, 142:4 45-degree [1] - 89:15 46 [3] - 30:8, 119:19, 142:4 468 [1] - 15:11 468,000 [1] - 49:23 47 [1] - 142:4 470 [1] - 164:4 48 [1] - 142:4 49 [2] - 142:4, 142:10</p>	<p style="text-align: center;">6</p> <p>6 [3] - 20:21, 32:12, 48:4 6,000 [1] - 190:18 60 [6] - 90:23, 162:23, 165:6, 192:9, 192:13 60th [1] - 40:23 61 [2] - 165:7, 170:23 62 [4] - 165:7, 167:8, 167:9 63 [1] - 165:7 64 [5] - 165:7, 170:20, 170:21, 170:24 65 [5] - 16:13, 16:16, 170:18, 173:12, 173:13 65,000 [1] - 59:19 66 [1] - 176:15 67 [2] - 176:15, 176:16 68 [3] - 176:15, 179:17, 180:19 69 [1] - 179:17</p>
	<p style="text-align: center;">2</p>	<p style="text-align: center;">3</p>		<p style="text-align: center;">7</p>
<p>2 [5] - 32:12, 35:5, 35:7, 135:3, 180:3 20 [17] - 23:22, 34:15, 36:19, 38:8, 42:23, 44:8, 70:12, 81:14, 83:11, 88:10, 89:10, 98:24, 114:17, 118:21, 163:11, 180:8, 193:12 20,000 [1] - 59:22 20-foot [1] - 191:18 200 [1] - 34:7 2003 [1] - 35:11 2004 [3] - 40:9, 40:20, 115:4 2005 [6] - 11:3, 51:23, 59:15, 92:3, 114:20, 115:11 2006 [1] - 34:3 2007 [6] - 41:13, 75:3,</p>		<p>3 [6] - 32:12, 38:20, 80:7, 119:23, 177:16, 180:3 3% [1] - 47:13 3.6 [1] - 186:22 30 [14] - 9:16, 19:20, 56:13, 63:12, 65:7, 77:7, 99:2, 109:22, 109:23, 109:24, 142:20, 163:3, 176:18, 181:22 30-foot [1] - 164:5 30-mile-an-hour [1] - 83:11 300 [2] - 125:22, 191:5 300,000 [1] - 48:24 300-foot [1] - 191:22 31 [2] - 109:24, 184:21 32 [4] - 98:22, 109:24, 116:22, 184:22 33 [4] - 15:15, 109:24, 116:22</p>	<p style="text-align: center;">5</p> <p>5 [3] - 32:12, 48:4, 48:6 50 [7] - 34:18, 98:18, 137:10, 142:5, 142:7, 142:8, 145:21 50% [1] - 49:20 50-foot [1] - 164:5 500 [2] - 46:8, 164:2 500,000 [1] - 30:12 500-foot [1] - 85:8 51 [4] - 142:5, 142:12,</p>	<p>7 [4] - 20:21, 32:13, 48:4, 53:8 70 [2] - 63:9, 179:17 70's [1] - 192:22 71 [1] - 179:17 72 [1] - 179:17 73 [1] - 179:17 74 [1] - 179:17 75 [4] - 140:8, 179:17, 189:13, 189:14 76 [1] - 179:17 77 [1] - 179:18 78 [2] - 179:18, 186:8 79 [4] - 69:15, 115:22, 189:12, 189:15 79% [1] - 48:10</p>

8

8 [5] - 20:22, 32:13, 53:8, 65:24, 74:12
8,000 [1] - 33:7
80 [4] - 189:15, 189:16, 191:17, 191:18
80's [1] - 93:16
850 [1] - 191:10
8:55 [1] - 194:14
8th [1] - 98:20

9

9 [5] - 38:21, 59:9, 98:23, 127:17
9/11 [1] - 161:12
90 [2] - 33:23, 63:21
900 [1] - 6:14
900,000 [1] - 48:23
95,000,000 [2] - 101:24, 106:3

A

abandoned [2] - 47:11, 110:19
abandonment [1] - 188:6
abilities [1] - 133:5
ability [2] - 3:22, 166:9
able [12] - 7:17, 19:6, 79:10, 97:2, 108:7, 118:22, 140:21, 141:4, 153:4, 156:15, 157:21, 158:4
above-captioned [1] - 195:10
absolutely [2] - 90:12, 109:10
abundance [1] - 103:15
abundant [1] - 159:16
acceleration [1] - 41:24
accept [2] - 105:21, 120:14
access [2] - 47:3, 71:7
accessible [1] - 105:4
accident [2] - 86:20, 168:16
accidents [3] - 31:10, 159:9, 166:19
accompli [1] - 55:12
accomplish [1] - 13:20
according [5] - 44:24,

66:6, 66:7, 71:15, 84:12
Accordingly [1] - 121:19
accurate [3] - 53:12, 53:17, 195:8
accurately [1] - 21:18
accuse [1] - 37:11
achieve [3] - 43:16, 175:14, 175:16
achieved [4] - 43:20, 103:23, 114:17, 115:9
acknowledge [1] - 155:23
acknowledges [1] - 124:15
acre [1] - 50:11
acres [1] - 44:23
act [4] - 37:10, 71:12, 77:10, 81:5
Act [5] - 11:3, 56:18, 124:12, 125:4
acting [2] - 43:14, 84:15
action [5] - 16:12, 41:10, 73:6, 73:12, 104:3
activities [3] - 12:6, 17:8, 18:3
activity [1] - 138:10
acts [1] - 149:22
actual [8] - 4:10, 66:4, 76:2, 76:10, 99:3, 130:14, 145:5, 148:16
adamant [1] - 174:5
Add [1] - 66:3
add [2] - 131:13, 174:2
added [2] - 41:21, 42:8
addition [4] - 34:13, 92:21, 131:3, 149:16
additional [9] - 12:13, 12:24, 57:7, 66:13, 118:20, 126:21, 127:5, 155:4, 157:18
additions [1] - 149:19
address [7] - 46:18, 111:21, 117:3, 121:12, 148:15, 166:3, 180:10
addressed [13] - 47:8, 52:10, 112:2, 113:6, 122:16, 123:6, 125:12, 126:7, 126:10, 127:9, 133:3, 166:12, 166:23

addresses [2] - 46:4, 46:23
addressing [2] - 126:14, 180:2
adequacy [1] - 3:7
adequate [1] - 124:17
adequately [3] - 127:9, 131:20, 166:3
adhere [1] - 193:2
adjacent [2] - 49:6, 167:24
Adjacent [1] - 159:6
adjuncts [1] - 29:6
administered [2] - 72:3, 90:24
Administration [2] - 66:11, 126:23
administration [1] - 85:22
administrative [1] - 108:12
Adrienne [1] - 137:7
advancing [1] - 34:21
adverse [5] - 67:4, 155:7, 155:14, 155:17, 155:18
adversely [3] - 66:23, 66:24, 154:24
advisor [1] - 51:12
advisory [1] - 124:5
advocate [1] - 107:4
aesthetic [7] - 119:18, 120:13, 120:15, 135:11, 154:14, 155:9, 184:6
aesthetics [3] - 47:20, 120:23, 134:10
affect [4] - 113:19, 154:19, 155:19, 166:14
affected [6] - 66:23, 66:24, 131:5, 147:20, 154:24, 155:6
afternoon [1] - 70:20
age [2] - 127:17, 180:14
agencies [3] - 3:6, 18:23, 95:6
agency [4] - 10:15, 92:4, 102:10, 122:23
agenda [1] - 56:5
aggregate [1] - 151:14
aggressive [1] - 62:11
aggressively [1] - 150:10
ago [13] - 56:13, 82:8, 84:4, 87:5, 135:21, 159:4, 161:5,

161:14, 168:12, 182:8, 190:6, 190:21, 192:11
agree [8] - 95:19, 176:22, 177:2, 177:3, 177:4, 178:2
agreed [2] - 73:17, 172:2
agreement [1] - 27:2
agreements [1] - 48:14
ahead [3] - 3:8, 12:4, 20:18
aid [2] - 14:18, 14:21
air [16] - 46:7, 48:20, 51:15, 79:15, 81:3, 94:19, 100:19, 103:13, 141:12, 162:2, 164:15, 172:7, 172:14, 179:23, 191:20, 191:21
Air [4] - 59:3, 87:15, 94:23, 163:24
aircraft [3] - 24:4, 85:5, 164:5
airplanes [3] - 112:3, 152:11, 168:4
Airport [7] - 22:7, 84:2, 85:2, 95:7, 151:3, 158:23, 185:5
airport [1] - 78:9
airports [1] - 164:7
AI [7] - 22:6, 22:9, 32:3, 41:14, 83:21, 86:17, 185:4
alarm [1] - 5:9
Alaska [3] - 10:19, 134:23, 153:24
Alison [1] - 119:11
all-time [1] - 141:3
ALLFATHER [1] - 59:12
Allfather [1] - 59:13
Alliance [11] - 52:7, 53:21, 54:20, 65:6, 78:5, 78:6, 78:8, 116:24, 124:2, 148:4, 182:8
allow [7] - 36:8, 69:10, 83:5, 98:8, 153:8, 187:7, 189:8
Allow [1] - 8:16
allowed [3] - 116:5, 146:23, 164:2
allowing [4] - 29:16, 111:9, 172:21, 184:23
allows [1] - 15:2

almost [15] - 34:16, 42:23, 44:8, 65:15, 75:12, 112:18, 135:21, 136:9, 138:5, 139:17, 142:20, 151:21, 152:3, 159:23, 184:22
alone [4] - 59:4, 114:13, 132:15, 149:10
alongside [1] - 53:2
alpha [1] - 25:15
alter [1] - 138:22
altered [3] - 94:9, 103:4, 160:11
alternate [4] - 87:13, 88:16, 172:11, 173:4
alternative [26] - 11:4, 15:23, 16:13, 16:24, 29:7, 32:22, 32:24, 33:15, 56:15, 91:24, 95:20, 96:5, 117:3, 117:6, 120:24, 136:11, 149:4, 150:3, 157:17, 157:20, 158:19, 159:16, 165:18, 167:19, 171:24
Alternative [2] - 11:13, 147:6
alternatives [6] - 15:20, 16:9, 29:5, 33:2, 175:22
altitude [1] - 46:9
amazing [1] - 128:9
America [2] - 22:17, 79:4
American [5] - 100:17, 111:3, 162:12, 162:14, 162:15
Americans [3] - 175:12, 175:19, 175:21
amount [5] - 31:2, 58:8, 128:9, 139:4, 141:2
analysis [6] - 16:8, 63:20, 117:4, 117:6, 117:7, 117:8
angle [1] - 89:16
angry [1] - 133:20
animals [1] - 125:22
announce [1] - 77:20
announced [2] - 42:8, 75:17
announcement [2] - 75:11, 75:13
annual [3] - 72:10,

72:14, 148:22
annually [3] - 45:9, 45:18, 72:8
answer [1] - 5:21
answered [4] - 5:23, 27:7, 57:6, 57:8
answering [1] - 92:10
answers [1] - 64:4
antenna [2] - 163:9, 163:18
anticipated [1] - 95:18
anyway [3] - 168:15, 169:4, 173:23
Anyway [1] - 176:9
apart [5] - 46:11, 132:24, 164:14, 178:24, 179:6
Apollo [1] - 64:6
apology [1] - 169:5
apparatus [2] - 105:3, 105:17
appeal [1] - 108:2
Appeals [1] - 51:12
appear [2] - 52:19, 108:13
Appendix [3] - 117:3, 117:9, 118:11
applaud [1] - 156:17
applauding [1] - 8:22
Applause [58] - 25:18, 29:18, 32:2, 35:6, 38:19, 42:19, 48:2, 56:10, 59:7, 60:24, 62:20, 64:23, 67:20, 70:16, 74:20, 78:2, 81:11, 85:17, 88:9, 90:19, 93:5, 96:19, 98:12, 100:20, 106:4, 106:21, 109:13, 111:13, 116:21, 119:10, 121:3, 123:10, 130:6, 133:11, 135:17, 137:4, 139:13, 142:3, 145:19, 147:23, 150:17, 154:4, 156:5, 158:9, 160:17, 162:20, 165:3, 167:6, 170:15, 173:10, 175:15, 176:14, 179:15, 181:24, 184:19, 186:7, 189:10, 193:14
applicant [1] - 116:12
applications [1] - 149:21
apply [1] - 157:24

applying [2] - 75:23, 75:24
appreciate [1] - 124:7
appreciation [1] - 91:16
approach [2] - 89:12, 149:9
approaching [1] - 35:15
appropriate [2] - 92:20, 173:8
approval [3] - 50:24, 80:14, 141:23
approve [3] - 13:17, 42:16, 102:21
approved [5] - 12:24, 13:13, 68:4, 126:19, 127:4
approving [1] - 160:16
April [3] - 19:17, 127:24, 169:6
aquaculture [1] - 126:24
aquifer [1] - 83:8
Ara [1] - 184:20
Arab [1] - 181:7
architectural [1] - 100:8
arduous [1] - 25:24
area [49] - 15:18, 27:19, 27:20, 63:22, 65:16, 65:24, 69:14, 71:3, 71:9, 71:20, 71:21, 72:9, 72:11, 73:8, 73:15, 73:19, 77:17, 80:5, 81:24, 82:21, 85:4, 85:7, 104:16, 107:8, 107:10, 120:4, 125:9, 127:11, 128:3, 128:13, 128:24, 129:17, 130:3, 130:19, 131:5, 131:19, 132:7, 132:9, 133:9, 140:13, 141:9, 152:20, 153:19, 169:24, 170:10, 178:17, 179:10, 185:15
areas [8] - 18:10, 81:23, 95:6, 123:5, 151:15, 151:20, 164:11, 178:16
argued [2] - 52:8, 100:16
arguments [1] - 52:12
Arizona [1] - 192:4
Armstrong [2] - 64:3,

64:7
Army [4] - 40:8, 40:13, 56:22, 92:3
arrangements [3] - 102:15, 102:23, 187:20
array [1] - 15:15
arrive [1] - 169:18
arrived [2] - 19:7, 39:19
artificial [1] - 77:11
artist's [1] - 52:17
ashore [3] - 135:20, 137:8, 139:7
aside [1] - 9:2
aspects [4] - 113:2, 119:16, 146:9, 146:11
asphalt [1] - 151:3
assembling [2] - 77:2
asserts [1] - 188:18
assess [2] - 3:6, 15:20
assessing [1] - 40:21
assessment [5] - 13:18, 122:8, 154:17, 154:21, 178:7
Assessment [2] - 66:19, 177:15
assigned [1] - 18:9
assignment [1] - 160:24
Associate [1] - 10:10
associated [1] - 188:6
Associates [2] - 2:7, 106:13
association [1] - 178:20
assume [1] - 22:8
assumed [1] - 118:3
assumptions [1] - 118:11
assurance [1] - 13:8
assure [1] - 151:4
assures [1] - 92:14
Athletic [1] - 6:19
Atlantic [4] - 49:2, 49:4, 125:19, 126:6
atmosphere [1] - 28:15
attacks [1] - 148:6
attendant [1] - 103:20
attended [1] - 75:6
attention [2] - 92:15, 182:12
attentively [1] - 8:16
attorney [1] - 150:20
attorneys [1] - 109:3
attracted [2] - 129:13,

129:18
attraction [1] - 137:16
attractive [1] - 49:5
audience [3] - 5:14, 144:6, 180:11
AUDIENCE [6] - 7:12, 7:17, 7:21, 7:24, 8:4, 32:4
auditorium [1] - 42:12
Audra [1] - 65:4
Audubon [3] - 50:21, 54:23, 54:24
Authority [11] - 29:20, 30:4, 30:8, 30:11, 30:20, 31:20, 95:7, 146:9, 158:23, 158:24, 171:18
authority [2] - 11:4, 50:22
authorized [1] - 102:10
automobiles [2] - 45:16, 54:9
availability [1] - 47:2
available [13] - 16:2, 16:6, 16:23, 20:17, 33:8, 49:13, 68:17, 69:10, 115:18, 118:3, 134:7, 156:17, 173:4
average [7] - 24:5, 24:6, 48:11, 49:23, 72:10, 72:13, 79:23
avian [4] - 46:2, 50:22, 54:16, 54:18
aviation [3] - 40:18, 66:10, 168:4
Aviation [1] - 66:11
avifauna [1] - 18:24
Avoid [1] - 8:18
avoid [5] - 9:2, 19:12, 177:17, 178:16, 194:12
avoided [1] - 49:9
aware [3] - 85:13, 96:4, 129:12
awful [2] - 139:9, 144:7

B

background [2] - 10:2, 85:20
backyard [6] - 51:14, 58:19, 119:17, 130:14, 153:24, 172:21
bad [3] - 135:12, 150:13, 184:9

bait [4] - 128:2, 128:9, 129:14, 129:16
BAKALAR [1] - 106:5
Bakalar [1] - 106:6
balance [1] - 63:22
baleen [1] - 126:5
baloney [1] - 141:8
Baltic [1] - 59:18
Bank [3] - 82:22, 174:20
Barbara [1] - 130:7
barely [4] - 52:15, 52:22, 60:17, 120:16
barge [1] - 102:3
barges [2] - 50:7, 58:10
barrel [4] - 97:13, 97:18, 161:13, 161:23
barrier [1] - 40:3
Barrow [1] - 73:7
Barrow's [1] - 73:4
base [2] - 23:14, 87:16
Based [2] - 72:15, 114:11
based [14] - 23:12, 40:18, 42:4, 62:2, 74:6, 95:22, 102:19, 115:8, 116:12, 133:4, 149:22, 180:6, 180:8, 189:24
basin [1] - 88:13
basis [2] - 30:10, 112:19
bass [2] - 23:16, 169:13
BASSETT [1] - 88:11
Bassett [2] - 88:12, 185:6
Bassett's [1] - 170:7
bay [1] - 15:18
Bay [5] - 89:8, 89:13, 100:6, 100:7
beach [2] - 10:22, 40:3
Beach [2] - 23:19, 63:16
Beano [1] - 142:15
bear [1] - 148:14
Beatrice [1] - 34:12
beautiful [10] - 55:7, 62:9, 79:3, 79:4, 168:23, 174:12, 175:20, 182:23, 187:8, 188:23
beautifully [1] - 60:22
became [3] - 61:5, 61:11, 146:6
BECKHAM [1] - 139:15

Beckham [1] - 139:16
become [4] - 25:10, 40:22, 65:18, 95:18
becoming [2] - 37:17, 141:13
bed [6] - 44:10, 104:20, 104:22, 132:5, 143:13, 182:11
Bedford [2] - 75:22, 124:23
bedrock [2] - 191:8, 191:11
beg [1] - 39:24
began [2] - 35:23, 44:20
begin [5] - 2:18, 47:16, 48:5, 51:2, 157:9
beginning [5] - 38:5, 38:13, 38:15, 169:6, 182:7
begins [1] - 109:11
behalf [3] - 26:9, 84:2, 106:7
behavior [1] - 8:14
behind [2] - 69:21, 138:18
believes [1] - 107:5
beloved [1] - 145:17
below [1] - 39:18, 46:8, 102:20, 104:19, 104:20, 104:21, 104:22, 136:2, 164:2, 164:6, 167:13
bends [1] - 193:10
Benedict [1] - 42:5
beneficial [1] - 46:15
benefit [13] - 22:22, 28:11, 36:12, 36:15, 38:2, 91:2, 96:8, 114:13, 147:5, 147:11, 153:7, 183:5
benefits [8] - 34:23, 35:21, 57:2, 91:23, 92:21, 135:4, 148:24, 161:17
benign [1] - 49:16
bent [1] - 89:15
bequeathing [1] - 141:18
BERGER [2] - 70:20, 74:16
Berger [1] - 70:21
best [7] - 3:18, 23:16, 28:4, 43:15, 46:24, 115:10, 168:19
better [6] - 33:2,

107:15, 129:19, 129:20, 130:4, 139:18
Better [1] - 63:21
between [12] - 30:7, 30:10, 99:3, 104:2, 132:6, 151:2, 159:21, 164:18, 166:16, 179:7, 179:11, 184:13
Between [1] - 66:6
beyond [4] - 13:16, 22:22, 47:18, 103:4
Bicentennial [1] - 35:14
bickering [1] - 64:10
bid [2] - 48:14, 48:16
bidders [1] - 48:16
big [8] - 44:18, 46:19, 58:21, 58:22, 75:11, 118:24, 175:23, 183:15
bigger [2] - 6:17, 28:19
biggest [1] - 45:13
Bight [2] - 49:2, 49:4
bilge [1] - 101:15
Bill [1] - 35:9
bill [2] - 36:11, 126:24
billion [3] - 118:4, 118:8, 135:3
bills [3] - 119:2, 119:7, 147:15
Bingo [1] - 142:16
biological [1] - 122:7
biomass [1] - 149:14
bird [10] - 45:14, 51:17, 54:5, 54:21, 54:24, 60:7, 60:10, 94:16, 112:6, 122:9
birds [9] - 18:24, 45:15, 45:18, 142:19, 143:16, 145:3, 145:8, 145:9, 182:24
BISHOP [1] - 121:5
Bishop [1] - 121:6
bit [13] - 2:19, 2:21, 3:10, 4:9, 4:11, 7:2, 9:24, 14:11, 20:2, 20:5, 26:11, 54:19, 75:10
black [5] - 84:12, 86:17, 94:22, 113:3, 135:3
blades [3] - 99:22, 99:24, 104:6
BLAKE [1] - 156:8
Blake [1] - 156:9

blatant [2] - 65:18, 119:23
Blavand [1] - 49:15
bleed [1] - 181:19
blessed [1] - 151:2
blessing [1] - 54:22
blight [2] - 120:14, 184:6
block [1] - 36:7
blow [1] - 168:7
blowing [3] - 90:10, 192:5, 192:12
Blue [9] - 74:22, 74:24, 75:2, 75:17, 76:16, 90:16, 99:18, 129:7, 185:14
bluefish [1] - 169:14
blurred [1] - 184:14
Board [7] - 22:16, 22:18, 25:15, 26:5, 51:12, 70:13, 94:24
board [7] - 26:6, 26:9, 106:8, 106:9, 124:3, 124:5, 171:21
boat [9] - 39:19, 52:23, 53:2, 58:15, 88:13, 112:21, 127:15, 159:8, 167:15
boat's [1] - 168:24
boaters [4] - 50:12, 140:10, 172:19, 177:3
boating [6] - 46:13, 55:15, 58:9, 79:20, 107:13, 172:6
boatload [1] - 44:3
boats [9] - 30:6, 31:7, 60:9, 137:24, 152:11, 166:8, 166:18, 168:2, 178:4
Bob [7] - 10:4, 10:10, 14:13, 19:16, 127:13, 162:24, 194:9
Bobby [1] - 84:14
body [4] - 41:16, 137:15, 137:19, 138:13
bold [1] - 47:20
bond [5] - 47:7, 47:10, 92:14, 118:20, 118:22
bondage [1] - 37:7
bonded [1] - 13:5
bonito [1] - 128:12
Bonnie [1] - 186:9
boost [1] - 126:24
BORCHERT [1] - 48:7

born [2] - 169:11, 180:22
Bornholdt [1] - 11:12
borrow [1] - 23:18
Boston [7] - 6:13, 6:16, 58:14, 59:2, 107:8, 191:10, 194:5
bother [3] - 24:10, 28:12, 28:16
bottom [2] - 132:8, 193:5
Boulder [1] - 84:20
bounce [1] - 113:11
boundaries [1] - 184:13
bow [1] - 64:11
box [1] - 5:24
boys' [1] - 5:4
brainer [1] - 167:20
brand [1] - 186:22
brand-new [1] - 186:22
Brault [1] - 143:18
bread [1] - 141:8
break [2] - 4:13, 109:16
Break [1] - 109:21
breaks [2] - 8:20, 9:5
breath [1] - 179:22
breathe [3] - 51:16, 141:3, 141:12
breeze [1] - 192:12
brevity [3] - 7:13, 7:15, 10:13
Brewster [1] - 107:10
Briefly [1] - 52:3
bring [9] - 24:14, 25:7, 77:11, 81:22, 82:6, 82:9, 137:12, 139:9, 140:12
Bringing [1] - 81:20
bringing [2] - 82:4, 177:12
brings [2] - 47:6, 82:13
British [1] - 84:8
brotherhood [1] - 37:12
brothers [1] - 161:21
Brothers [1] - 181:9
brought [3] - 138:4, 138:5, 180:12
brown [1] - 139:22
Brown's [1] - 82:22
brown-yellow [1] - 139:22
Bucko [2] - 195:5, 195:15
budget [1] - 110:7

buffer [1] - 164:5
buffeting [1] - 192:7
build [10] - 49:10, 50:24, 96:6, 111:9, 122:22, 146:8, 164:20, 164:21, 173:7, 186:18
building [5] - 94:13, 135:15, 163:15, 163:16, 187:24
buildings [1] - 58:13
buildout [1] - 40:2
built [6] - 27:12, 34:22, 35:13, 58:2, 58:3, 187:8
bull [1] - 61:23
bunch [1] - 128:18
bundle [1] - 25:2
buoy [1] - 88:23
buoys [2] - 89:4, 178:4
burden [1] - 168:21
burning [3] - 51:20, 64:19, 110:12
burped [1] - 190:8
Bush [1] - 126:23
busiest [2] - 167:23, 172:5
business [4] - 41:9, 85:22, 189:22, 189:23
BUSSIERE [1] - 114:3
Bussiere [1] - 114:4
busy [1] - 146:4
but [1] - 183:21
but.. [1] - 183:19
buy [3] - 58:4, 64:17, 116:15
Buzzard's [4] - 89:7, 89:8, 89:13, 100:6
BV [1] - 75:2

C

cable [1] - 36:17
cables [5] - 15:15, 15:16, 24:16, 24:17, 24:20
calculations [1] - 133:4
California [2] - 10:20, 192:3
campaign [1] - 78:4
Canada [2] - 126:17, 149:14
canal [1] - 58:24
Canal [3] - 58:11, 89:12, 139:24
cancelled [4] - 87:9, 114:15, 116:8, 118:6

<p>candidate [1] - 70:21</p> <p>cannot [6] - 41:8, 105:8, 107:2, 118:19, 166:8</p> <p>capability [2] - 24:18, 24:21</p> <p>capable [1] - 48:9</p> <p>capacities [2] - 116:14, 142:18</p> <p>capacity [6] - 24:21, 24:22, 115:10, 149:17, 149:20, 149:22</p> <p>CAPE [1] - 1:6</p> <p>Cape [156] - 2:21, 11:15, 14:12, 14:14, 15:9, 22:19, 25:11, 26:7, 29:6, 33:3, 33:5, 33:6, 33:11, 34:7, 34:17, 34:21, 36:6, 36:9, 40:4, 43:6, 43:21, 44:9, 47:9, 48:9, 49:22, 50:17, 50:24, 51:9, 51:19, 52:5, 56:21, 58:15, 59:2, 59:3, 64:4, 64:13, 64:15, 65:10, 66:13, 67:14, 69:16, 70:15, 71:23, 73:13, 78:7, 80:13, 87:16, 89:11, 93:10, 93:11, 95:13, 95:14, 98:21, 99:4, 99:24, 100:7, 100:18, 100:24, 101:22, 102:4, 102:7, 102:11, 102:24, 104:11, 105:24, 106:3, 106:13, 107:10, 107:11, 111:2, 111:7, 111:9, 111:22, 115:21, 115:22, 116:4, 116:17, 117:5, 117:9, 117:21, 117:24, 118:7, 118:19, 119:2, 119:6, 119:7, 121:13, 121:23, 123:4, 124:5, 124:10, 125:8, 125:15, 125:17, 126:8, 131:4, 131:11, 132:3, 134:9, 134:18, 135:10, 135:11, 139:16, 140:3, 140:10, 140:14, 141:15, 146:23, 147:3, 147:19,</p>	<p>148:16, 149:2, 149:4, 149:20, 149:23, 150:4, 150:7, 150:13, 151:6, 152:7, 153:8, 154:7, 154:12, 154:14, 154:22, 155:24, 161:6, 161:16, 162:2, 162:10, 163:22, 164:18, 164:21, 170:4, 173:5, 173:15, 174:20, 175:7, 176:23, 177:7, 177:8, 177:12, 177:14, 177:16, 178:6, 185:24, 186:13, 186:16, 186:21, 187:18, 188:17, 190:22, 190:23, 191:2</p> <p>capital [3] - 118:3, 118:4, 118:8</p> <p>captain [2] - 88:23, 127:15</p> <p>captioned [1] - 195:10</p> <p>capturing [2] - 95:20, 95:24</p> <p>Carbon [2] - 180:23, 180:24</p> <p>carbon [12] - 43:17, 45:7, 45:9, 48:19, 102:18, 102:19, 103:2, 103:16, 104:24, 105:15, 180:23, 180:24</p> <p>carbon-based [1] - 102:19</p> <p>card [2] - 21:13, 21:15</p> <p>care [4] - 51:14, 51:15, 51:16, 158:17</p> <p>careful [1] - 163:17</p> <p>Carol [1] - 78:15</p> <p>Carolina [1] - 49:3</p> <p>carpenters [1] - 113:21</p> <p>carried [2] - 89:15, 125:14</p> <p>carries [1] - 30:11</p> <p>CARROLL [2] - 78:3, 81:13</p> <p>carry [1] - 24:17</p> <p>case [7] - 73:4, 111:19, 111:20, 148:11, 172:20, 172:21, 187:12</p> <p>catastrophes [2] - 28:9</p>	<p>catastrophic [2] - 50:9, 141:17</p> <p>catastrophically [1] - 41:18</p> <p>catch [2] - 39:18, 162:5</p> <p>categorizations [1] - 155:13</p> <p>cats [1] - 45:16</p> <p>caught [2] - 140:9</p> <p>caused [4] - 68:10, 82:3, 154:18, 174:7</p> <p>CDR [1] - 2:7</p> <p>ceiling [3] - 113:10, 113:12, 163:24</p> <p>celebrate [1] - 35:14</p> <p>cell [2] - 8:4, 8:13</p> <p>cement [1] - 89:10</p> <p>Center [1] - 6:19</p> <p>center [5] - 4:20, 37:16, 37:17, 112:22, 172:17</p> <p>centers [1] - 160:2</p> <p>cents [2] - 114:19, 115:14</p> <p>centuries [1] - 93:22</p> <p>CEO [1] - 116:24</p> <p>certain [2] - 138:23, 148:19</p> <p>certainly [4] - 23:15, 156:17, 156:24, 157:2</p> <p>certify [1] - 195:7</p> <p>cetera [3] - 55:20, 112:7, 120:7</p> <p>chain [2] - 100:6, 105:9</p> <p>chairman [5] - 21:24, 22:15, 25:13, 30:4, 41:12</p> <p>challenge [1] - 107:23</p> <p>challenges [1] - 110:23</p> <p>challenging [1] - 136:15</p> <p>Chamber [3] - 55:8, 106:8, 106:10</p> <p>Chamber's [1] - 106:14</p> <p>Chambers [1] - 78:10</p> <p>chance [6] - 3:2, 3:13, 7:19, 50:9, 109:17, 111:10</p> <p>Change [2] - 41:2, 41:13</p> <p>change [13] - 37:20, 41:7, 46:2, 47:17, 59:4, 94:6, 97:8, 97:9, 97:14, 97:20,</p>	<p>98:3, 98:8</p> <p>changed [3] - 6:13, 6:18, 120:5</p> <p>changes [3] - 3:8, 39:22, 193:4</p> <p>changing [1] - 132:9</p> <p>channel [2] - 63:17, 168:2</p> <p>character [1] - 120:15</p> <p>characteristics [1] - 106:18</p> <p>characterization [1] - 158:15</p> <p>characterizations [1] - 67:3</p> <p>characterized [1] - 12:15</p> <p>CHARDER [1] - 184:20</p> <p>Charder [1] - 184:21</p> <p>charge [2] - 27:19, 78:18</p> <p>charged [1] - 92:4</p> <p>Charles [1] - 121:6</p> <p>charter [2] - 127:15, 167:15</p> <p>Chatham [2] - 100:4, 159:5</p> <p>cheap [1] - 135:8</p> <p>cheering [1] - 8:21</p> <p>chief [1] - 76:5</p> <p>child [1] - 183:22</p> <p>children [4] - 51:4, 62:10, 137:21, 141:18</p> <p>children's [1] - 172:23</p> <p>choice [3] - 31:3, 97:5, 97:20</p> <p>choices [1] - 97:5</p> <p>chose [2] - 68:22, 80:20</p> <p>Chris [4] - 2:6, 10:5, 90:20, 185:8</p> <p>Christians [1] - 42:6</p> <p>CHRISTINA [1] - 154:5</p> <p>Christina [1] - 154:6</p> <p>chunk [1] - 164:15</p> <p>Church [1] - 35:10</p> <p>cities [1] - 49:6</p> <p>Citigroup [1] - 181:8</p> <p>citizen [1] - 133:19</p> <p>citizens [7] - 8:17, 9:13, 29:24, 147:18, 171:11, 174:21, 174:22</p> <p>citizens' [3] - 107:20, 108:14, 114:5</p> <p>cityscape [1] - 112:3</p> <p>civil [2] - 8:14, 85:20</p>	<p>civility [1] - 3:21</p> <p>claims [4] - 57:9, 57:14, 66:5, 115:21</p> <p>clarify [1] - 78:16</p> <p>Clark [2] - 6:19, 194:5</p> <p>class [1] - 73:12</p> <p>classes [1] - 147:5</p> <p>classification [1] - 155:21</p> <p>classified [1] - 155:17</p> <p>clean [9] - 26:24, 53:5, 60:23, 64:15, 91:18, 92:21, 97:24, 103:13, 157:16</p> <p>Clean [7] - 35:13, 65:9, 67:16, 78:12, 107:2, 108:11, 108:24</p> <p>cleaner [3] - 33:13, 51:2, 116:16</p> <p>cleaners [1] - 113:21</p> <p>clear [10] - 40:14, 52:16, 53:19, 56:24, 61:20, 65:18, 75:23, 76:12, 99:2, 168:5</p> <p>clearance [3] - 17:23, 18:3, 90:11</p> <p>clearly [3] - 21:15, 61:10, 173:4</p> <p>Clearly [1] - 43:24</p> <p>clergy [3] - 37:5, 37:9, 37:11</p> <p>client [1] - 107:4</p> <p>Cliff [1] - 78:14</p> <p>Climate [2] - 41:2, 41:13</p> <p>climate [4] - 41:7, 46:2, 47:17, 51:22</p> <p>cling [1] - 129:17</p> <p>clockwork [1] - 175:9</p> <p>close [8] - 19:7, 39:15, 52:19, 63:10, 125:17, 128:24, 159:24, 169:12</p> <p>closed [9] - 66:3, 72:21, 72:22, 73:9, 74:4, 74:17, 93:24, 130:19, 164:16</p> <p>closely [2] - 177:19, 178:2</p> <p>closer [4] - 39:5, 63:3, 67:24, 119:14</p> <p>closing [1] - 116:11</p> <p>cloud [1] - 113:12</p> <p>clouds [2] - 164:2, 164:6</p> <p>Club [1] - 120:7</p> <p>Cluck [4] - 11:14, 14:11, 14:14, 78:19</p>
---	--	---	---	---

CLUCK [1] - 14:13
co [1] - 114:5
co-founder [1] - 114:5
coal [5] - 50:4, 135:3, 135:4, 152:16, 180:13
coast [4] - 11:7, 88:23, 134:23, 139:24
Coast [22] - 13:13, 30:21, 49:10, 54:11, 61:13, 67:6, 80:17, 80:21, 86:9, 88:14, 88:22, 89:19, 95:2, 122:5, 140:21, 158:24, 167:3, 168:21, 169:9, 171:17, 171:19, 172:6
coastal [2] - 33:19, 71:6
Coatue's [1] - 63:15
cock [1] - 61:23
Cod [15] - 15:9, 100:7, 111:2, 111:7, 124:5, 131:11, 132:3, 139:16, 140:3, 140:10, 154:12, 154:14, 155:24, 173:16, 190:22
Cod's [1] - 140:11
Codders [1] - 78:7
coexist [1] - 179:4
COHEN [2] - 150:19, 153:22
Cohen [1] - 150:20
cold [2] - 31:15, 82:13
collapse [1] - 181:6
collapses [1] - 17:21
colleague [4] - 2:7, 3:17, 25:20, 29:19
colleagues [2] - 9:4, 21:16
collect [2] - 116:5, 129:15
collectively [1] - 147:9
collide [1] - 140:18
collisions [2] - 140:20, 177:17
Colorado [1] - 84:20
column [1] - 17:18
combustion [3] - 45:7, 104:5, 105:17
comfortable [4] - 31:4, 101:7, 102:6, 103:3
Coming [1] - 35:8
coming [17] - 25:24, 29:23, 60:4, 63:5, 81:17, 82:19, 110:7,

138:3, 139:5, 139:23, 141:9, 156:18, 158:14, 171:9, 174:10, 176:4, 184:22
commend [2] - 53:15, 109:5
comment [9] - 6:22, 14:9, 14:22, 14:23, 15:3, 54:4, 54:8, 130:24, 180:2
commenting [2] - 11:22, 14:6
comments [10] - 11:23, 12:8, 12:17, 14:7, 19:18, 24:12, 44:7, 174:3, 183:16, 193:20
Commerce [4] - 55:8, 78:10, 106:8, 106:10
commercial [16] - 50:12, 54:6, 55:24, 72:18, 72:23, 73:17, 127:14, 167:15, 176:20, 177:2, 178:7, 178:11, 178:19, 179:3, 186:23, 189:21
commercially [1] - 139:21
commercially-operated [1] - 139:21
Commission [2] - 51:13, 84:3
commission [2] - 26:9, 170:6
commissioning [1] - 76:14
commissions [1] - 78:10
commitment [1] - 156:18
commodity [1] - 181:2
commonly [1] - 23:6
Commonwealth [1] - 195:6
communication [1] - 80:19
communities [5] - 46:16, 106:19, 122:2, 141:16, 150:12
community [5] - 28:5, 28:11, 47:4, 65:20, 111:11
Community [2] - 137:20, 165:13
Compact [2] - 33:5, 36:7

company [2] - 75:2, 76:17
compared [6] - 33:6, 42:2, 131:14, 151:15, 151:19, 152:3
compares [1] - 117:18
Comparing [1] - 131:5
comparison [4] - 34:17, 104:11, 131:10, 147:15
compelling [1] - 40:23
compensating [1] - 74:5
compensation [2] - 73:6, 73:14
Competing [1] - 19:10
competitive [1] - 92:22
complain [1] - 181:17
complete [8] - 30:24, 31:11, 67:7, 80:18, 86:10, 105:6, 123:7, 145:17
completed [7] - 30:22, 50:13, 80:23, 84:18, 84:19, 96:7, 167:4
completely [5] - 18:13, 79:12, 80:4, 132:7, 141:22
complexity [1] - 172:10
compliance [1] - 148:22
components [1] - 42:3
comprehensive [2] - 56:22, 80:5
comprehensively [1] - 166:24
comprehensiveness [1] - 43:4
comprises [1] - 47:13
con [1] - 136:23
conceivable [1] - 65:16
concept [3] - 31:21, 61:4, 167:19
concern [20] - 12:11, 31:22, 37:23, 61:5, 66:16, 84:6, 88:21, 90:6, 101:18, 106:14, 112:20, 120:13, 127:22, 131:19, 138:8, 143:10, 166:7, 171:13, 171:15, 185:17
concerned [13] - 24:10, 30:20, 46:14,

59:21, 88:4, 107:18, 128:21, 129:24, 138:16, 139:2, 156:24, 159:2, 171:11
Concerning [1] - 46:7
concerns [22] - 26:15, 26:19, 30:15, 46:3, 92:6, 92:10, 120:12, 125:20, 130:15, 146:12, 166:2, 166:4, 166:11, 166:15, 171:10, 171:12, 177:9, 178:8, 185:5, 185:6, 185:7, 193:21
conciseness [1] - 3:21
concludes [2] - 117:9, 124:18
conclusion [4] - 25:9, 41:17, 60:19, 110:13
condemn [1] - 120:16
condensed [1] - 16:22
condition [1] - 81:5
conditional [1] - 50:23
conditions [3] - 17:7, 122:6, 164:16
condominiums [1] - 120:6
conducted [1] - 92:9
conference [1] - 40:24
confident [1] - 103:10
confined [2] - 101:9, 101:13
confused [1] - 95:13
Congress [1] - 121:17
Congressman [2] - 78:9, 84:13
Connecticut [1] - 89:2
connections [1] - 152:8
cons [1] - 176:19
conscience [1] - 37:9
consequences [2] - 31:17, 120:18
conservation [1] - 91:4
Conservationists [1] - 93:19
consider [11] - 29:15, 39:22, 62:14, 101:22, 120:23, 127:2, 127:5, 136:20, 160:15, 174:19, 185:13
considerate [1] - 136:13
consideration [9] -

31:24, 44:6, 77:22, 95:10, 103:22, 157:22, 174:18, 176:12, 193:23
considered [5] - 124:13, 124:23, 126:12, 131:24, 188:8
considering [2] - 23:2, 101:8
consist [1] - 76:8
constant [5] - 99:13, 99:20, 185:16, 192:2, 192:7
construct [2] - 172:9, 172:16
constructed [2] - 99:21, 172:13
constructing [1] - 148:24
construction [21] - 17:14, 17:17, 19:2, 19:3, 19:4, 19:8, 34:14, 35:18, 50:13, 76:13, 76:23, 76:24, 125:13, 125:15, 125:21, 126:5, 126:14, 126:20, 127:10, 128:15, 145:6
construed [1] - 78:18
consultation [1] - 122:12
consumed [1] - 180:19
consumption [3] - 47:16, 110:18, 181:17
contacted [2] - 72:6, 72:8
contained [1] - 105:8
containment [2] - 101:9, 101:13
contaminate [1] - 48:21
contemplate [1] - 35:18
context [4] - 28:20, 134:13, 134:16, 135:10
Continental [2] - 99:12, 190:17
contingent [2] - 72:2, 73:11
continue [9] - 18:22, 41:9, 57:9, 96:6, 97:17, 109:20, 124:13, 126:10, 161:24

continued [4] - 40:22, 61:7, 139:18, 162:19
continues [2] - 80:24, 168:7
continuing [1] - 109:8
continuous [1] - 125:13
contractor [1] - 146:7
contrast [1] - 76:17
contribute [2] - 48:20, 51:22
contributed [1] - 40:5
contributing [1] - 31:17
contributor [1] - 45:6
controller [2] - 163:4, 163:21
controversy [1] - 168:10
conversation [1] - 146:16
conversations [2] - 8:19, 9:3
conversion [1] - 180:22
converted [1] - 180:21
copper [2] - 104:2, 105:18
corn [1] - 69:19
cornerstone [1] - 122:8
Corporation [1] - 14:20
Corps [4] - 40:9, 40:14, 56:23, 92:3
correct [3] - 89:21, 162:3, 162:4
corrected [1] - 118:12
correctly [1] - 148:15
cost [30] - 25:2, 25:3, 33:4, 33:9, 33:14, 47:4, 48:15, 50:20, 58:3, 87:2, 95:14, 110:12, 114:9, 114:11, 117:4, 117:10, 117:11, 117:14, 117:17, 117:21, 118:3, 118:4, 118:9, 118:15, 118:18, 153:7, 161:13, 183:13, 187:13
cost-effectiveness [1] - 33:4
costing [1] - 183:9
costly [1] - 95:18
costs [12] - 48:12, 48:13, 72:18, 77:6, 86:24, 95:16,

103:21, 118:5, 118:13, 150:9, 188:5, 188:11
could... [1] - 38:21
counterweight [3] - 76:9, 76:20, 77:10
countries [1] - 114:24
country [16] - 43:19, 49:20, 51:3, 57:17, 64:16, 64:21, 91:12, 100:11, 109:4, 136:6, 147:18, 159:21, 160:13, 180:19, 181:3, 181:12
couple [3] - 43:9, 159:6, 163:4
course [7] - 13:10, 19:7, 27:5, 70:23, 79:22, 138:18, 138:22
courses [1] - 31:3
court [1] - 21:7
cover [2] - 67:14, 187:13
coverage [3] - 118:7, 118:16, 118:18
covered [4] - 44:15, 80:3, 85:7, 131:20
cracks [1] - 39:12
craft [1] - 166:9
crazy [1] - 150:22
create [8] - 36:22, 51:2, 94:21, 95:20, 112:4, 112:5, 130:16, 180:23
created [3] - 10:15, 120:14, 172:22
creating [1] - 84:11
creation [2] - 36:14, 36:16
credit [2] - 50:19, 113:23
crews [1] - 60:9
crime [1] - 189:4
crisis [2] - 108:21
criteria [2] - 15:22, 15:23
critical [4] - 79:14, 86:13, 125:18, 176:12
Critically [1] - 126:16
critically [1] - 131:22
critically-endangered [1] - 131:22
critters [1] - 144:12
CRONIN [1] - 81:15
Cronin [1] - 81:16

cross [1] - 138:3
crossing [1] - 30:6
cruising [1] - 137:16
cultural [2] - 154:15, 157:24
cumulative [3] - 126:9, 132:21, 133:2
Cumulative [1] - 127:8
Cup [1] - 137:22
current [7] - 11:9, 16:2, 30:3, 68:21, 87:21, 118:16, 191:14
cut [1] - 83:4

D

DACKERMAN [1] - 74:21
Dackerman [1] - 74:22
daily [2] - 30:10, 112:18
dais [1] - 20:10
damage [6] - 45:3, 89:13, 112:6, 132:14, 170:7, 174:6
damaging [1] - 76:21
damndest [1] - 168:22
Danes [1] - 55:14
danger [1] - 79:13
dangerous [2] - 50:3, 83:15
dangers [1] - 40:16
Danish [1] - 49:18
data [13] - 98:20, 98:22, 99:4, 99:5, 99:8, 116:3, 116:5, 118:3, 144:4, 145:4, 145:12, 157:10, 177:19
date [3] - 41:23, 135:5, 188:3
daughters [2] - 161:20, 171:7
Dave [1] - 173:15
days [10] - 19:20, 79:21, 79:23, 88:23, 127:19, 145:2, 159:6, 163:22, 192:11
dead [1] - 60:7
deadly [1] - 81:2
deal [4] - 22:24, 104:23, 152:16, 164:23
dealing [2] - 180:17, 188:18
deals [1] - 37:21

dealt [1] - 14:4
Dear [2] - 48:8, 59:14
death [1] - 135:4
debate [2] - 148:9, 161:4
debris [1] - 190:13
debt [3] - 118:14, 118:16, 118:18
debt/equity [1] - 118:14
December [3] - 40:9, 41:22, 75:3
decide [4] - 61:6, 96:16, 128:22, 186:5
decided [2] - 2:15, 93:20
decimate [1] - 140:15
decision [12] - 12:4, 19:20, 64:7, 84:17, 85:11, 86:11, 86:22, 98:4, 98:10, 145:13, 166:24, 184:24
decision-making [1] - 184:24
decisionmakers [1] - 12:2
decisions [2] - 167:2, 171:22
decisive [1] - 41:10
declared [1] - 42:10
decommissioning [1] - 47:10
decommission [1] - 77:12
decommissioned [3] - 38:10, 38:13, 77:9
decommissioning [12] - 13:3, 13:19, 17:15, 17:22, 17:24, 47:7, 76:14, 92:18, 103:6, 103:8, 188:3, 188:10
DeCosta [3] - 123:20, 127:13, 127:14
decrease [1] - 110:13
dedicated [1] - 107:19
deemed [1] - 113:3
deep [23] - 33:15, 33:22, 34:2, 38:14, 75:13, 75:19, 76:2, 76:9, 76:14, 76:16, 77:22, 83:3, 83:7, 90:15, 95:23, 107:11, 112:13, 117:7, 141:9, 166:11, 168:2, 185:13
Deeper [2] - 33:16, 34:20

Defense [1] - 84:9
defined [1] - 125:3
defines [1] - 90:8
definite [1] - 180:16
definitely [4] - 37:20, 128:18, 129:22, 168:13
definition [1] - 97:9
defunct [1] - 188:12
degradation [2] - 42:9, 154:18
degree [2] - 8:2, 71:14
DEIR [1] - 155:15
DEIS [55] - 10:2, 12:9, 12:22, 13:16, 40:14, 43:7, 45:20, 46:4, 46:23, 47:10, 53:17, 65:11, 65:17, 65:19, 66:5, 66:9, 66:16, 66:24, 67:5, 67:12, 67:15, 80:11, 80:21, 93:11, 94:23, 114:8, 116:3, 116:11, 117:13, 117:16, 118:2, 121:9, 121:10, 121:19, 122:4, 122:15, 122:17, 122:23, 123:6, 124:14, 124:15, 124:24, 143:12, 148:12, 148:15, 151:13, 152:5, 154:8, 154:12, 154:20, 155:11, 155:18, 161:18, 166:2, 180:2
DEIS's [1] - 56:22
Delahunt [2] - 84:13, 85:14
Delaware [2] - 87:9, 116:7
delegate [1] - 40:23
Deliberate [2] - 96:15, 186:4
delicensed [1] - 38:10
deluxe [1] - 120:6
demand [3] - 101:23, 110:14, 149:10
demanding [1] - 80:5
demise [1] - 68:10
demonstration [1] - 76:7
Denmark [15] - 27:11, 49:15, 51:23, 52:21, 54:14, 54:16, 55:3, 59:14, 114:15, 131:6, 131:13, 131:14, 187:4, 187:12

Denmark's [1] - 131:6
denounce [1] - 148:6
deny [1] - 116:12
DEPARTMENT [1] - 1:4
Department [4] - 34:4, 102:10, 109:5, 114:20
dependence [2] - 91:19, 140:24
dependency [1] - 152:6
dependent [2] - 55:5, 131:17
depth [4] - 16:2, 34:5, 65:21, 126:8
depths [3] - 34:2, 34:8, 34:16
deregulation [1] - 69:3
derive [1] - 69:5
derived [1] - 72:10
derogatory [1] - 9:2
descend [1] - 59:23
describe [1] - 65:13
designated [2] - 78:23, 170:11
designation [1] - 66:12
desirable [1] - 150:2
desperate [1] - 141:11
destination [1] - 154:16
destinations [2] - 79:4, 131:11
destroy [1] - 188:24
destroyed [1] - 119:23
destruction [4] - 88:19, 120:19, 140:5, 188:22
detail [1] - 65:17
detailed [1] - 13:17
details [3] - 64:10, 122:19, 151:7
determine [1] - 17:5
determined [2] - 66:13, 155:7
detour [2] - 19:11, 152:14
detrimental [1] - 129:4
devastating [3] - 50:4, 129:24, 150:8
devastation [2] - 100:9, 130:2
develop [8] - 25:7, 28:23, 28:24, 29:7, 73:14, 92:12, 147:10, 160:8
developed [9] - 13:14,

15:21, 72:3, 73:24, 74:3, 121:16, 146:22, 147:9, 163:6
developer [11] - 57:15, 107:22, 108:3, 108:8, 108:17, 113:23, 116:9, 121:22, 133:23, 186:14, 187:20
developing [5] - 56:17, 72:17, 75:2, 91:18, 91:23
development [17] - 14:18, 16:15, 17:14, 19:2, 49:5, 52:8, 65:14, 67:17, 73:8, 76:4, 108:9, 119:21, 120:4, 121:16, 121:24, 150:7, 183:13
devised [1] - 96:2
dialogue [1] - 97:3
diameter [1] - 15:14
difference [7] - 58:22, 59:5, 86:23, 97:11, 97:15, 99:3, 111:11
different [12] - 18:9, 20:5, 25:14, 25:21, 26:4, 35:16, 116:10, 152:10, 156:16, 164:24, 192:14, 193:21
difficult [3] - 104:23, 168:19, 183:11
difficulty [1] - 144:23
diligence [1] - 43:4
diminishing [1] - 102:2
DINEEN [2] - 142:12, 148:2
Dineen [1] - 148:3
dioxide [3] - 45:7, 45:9, 48:19
direct [4] - 36:12, 36:15, 38:2, 78:18
directed [2] - 78:19, 101:19
direction [5] - 25:12, 63:13, 63:14, 138:24, 192:14
directly [4] - 22:20, 45:5, 169:18, 177:13
director [6] - 55:8, 65:5, 84:15, 88:12, 106:6, 165:12
Director [1] - 10:11
directors [2] - 106:9, 124:3
disadvantage [1] -

108:3
disagree [1] - 158:15
disappear [1] - 62:7
disappointed [2] - 43:11, 43:22
disaster [4] - 81:21, 94:8, 132:19, 141:17
disasters [1] - 82:3
discounted [1] - 74:9
discovered [1] - 23:21
discredit [1] - 78:5
discuss [4] - 9:5, 97:3, 148:11, 148:13
discussing [1] - 146:11
discussion [1] - 161:4
discussions [1] - 122:18
dismantled [1] - 187:21
dismantlement [1] - 187:17
dismayed [1] - 119:20
dismisses [1] - 178:7
dismissing [1] - 177:9
displace [1] - 45:8
displaced [1] - 72:23
disrupted [1] - 128:16
disruptive [1] - 41:18
distance [3] - 16:5, 46:11, 63:15
distribution [1] - 104:8
District [1] - 51:13
disturbance [1] - 127:6
disturbing [2] - 112:6, 119:16
diver [1] - 167:14
diving [1] - 81:19
Division [2] - 71:16, 148:21
docks [1] - 58:13
document [3] - 12:15, 78:21, 182:10
documented [4] - 114:22, 115:3, 115:6
Documented [1] - 115:16
DOER [1] - 149:21
dollars [4] - 25:3, 97:18, 138:6, 139:10
Don [1] - 61:2
donated [1] - 90:24
done [18] - 3:7, 4:6, 8:9, 15:2, 33:5, 66:19, 75:9, 84:7, 93:22, 95:15, 109:6, 112:8, 112:24,

128:20, 137:21, 144:20, 153:2, 192:23
door [1] - 175:24
doors [3] - 5:3, 5:10, 5:11
Dorothy [1] - 51:5
double [3] - 5:3, 95:16, 117:22
doubled [1] - 49:19
doubt [1] - 108:22
Doug [1] - 111:14
DOWLING [1] - 182:2
Dowling [1] - 182:3
Down [1] - 190:16
down [16] - 4:20, 4:23, 20:9, 20:19, 21:10, 60:6, 65:2, 110:4, 113:20, 128:21, 165:20, 171:2, 181:14, 190:7, 190:18, 191:9
downsides [1] - 33:18
downtown [1] - 120:4
DPI/NGO [1] - 40:24
Dr [4] - 11:14, 14:10, 78:18, 145:24
DR [1] - 14:13
draft [3] - 12:15, 12:16, 36:2
Draft [10] - 3:3, 10:9, 11:17, 12:9, 14:7, 14:18, 30:5, 79:11, 86:3, 134:5
drag [1] - 108:2
dramatically [1] - 28:6
drawings [1] - 52:17
dreaming [1] - 44:13
drift [1] - 112:22
drilling [3] - 83:3, 83:5, 153:23
drinking [1] - 5:7
drive [4] - 118:9, 118:13, 191:10, 191:18
Drive [1] - 194:12
driven [3] - 104:5, 131:7, 132:4
drives [1] - 150:22
drop [2] - 5:23, 31:15
ducks [2] - 23:23, 145:7
due [9] - 19:18, 41:23, 46:2, 72:24, 130:20, 135:8, 169:24, 187:5
dune [1] - 52:20
during [12] - 13:18, 18:24, 19:3, 19:4, 19:8, 19:11, 31:15,

71:10, 107:15, 127:23, 149:10, 164:16
During [4] - 17:19, 17:22, 57:4, 128:14
dying [2] - 161:23, 161:24

E

e-mail [1] - 194:3
e-mails [1] - 6:21
earliest [1] - 39:10
early [2] - 122:20, 127:24
Earth [1] - 133:19
earth [1] - 98:10
Earth's [1] - 102:20
easier [1] - 160:10
East [4] - 49:10, 61:13, 135:7, 169:9
east [2] - 128:7, 192:2
eastern [2] - 93:18, 94:2
Eastern [2] - 49:8, 175:4
Eastham [1] - 100:4
easy [2] - 110:9, 160:8
eat [2] - 23:23, 141:13
echoes [1] - 177:21
ecology [1] - 169:5
economic [16] - 16:7, 16:8, 28:21, 71:2, 73:22, 94:7, 106:15, 113:5, 116:9, 119:5, 131:3, 151:10, 159:12, 174:6, 181:5, 189:3
economically [5] - 48:12, 87:7, 87:11, 108:3, 117:10
economies [2] - 33:20, 156:3
economy [6] - 54:4, 93:14, 113:8, 131:7, 154:19, 175:9
Economy [1] - 95:12
EDDY [1] - 35:8
Eddy [1] - 35:9
edifices [1] - 120:6
Edith [1] - 142:17
editorial [2] - 46:20, 47:5
education [1] - 85:23
EDWARDS [2] - 32:17, 35:3
Edwards [1] - 32:18
effect [9] - 52:20, 67:4, 94:14, 94:21,

113:14, 113:20,
155:8, 155:14,
185:22
effect's [1] - 89:22
effective [1] - 4:3
effectively [1] - 73:2
effectiveness [1] -
33:4
effects [10] - 16:19,
30:17, 31:11, 31:14,
45:23, 47:17, 67:8,
122:9, 132:15, 156:2
efficiency [3] - 33:4,
33:8, 33:13
efficiently [1] - 20:3
effort [2] - 10:8, 72:23
efforts [2] - 114:14,
124:7
eggs [1] - 128:6
eight [7] - 32:20, 66:6,
66:7, 70:23, 72:5,
72:7, 133:6
EIS [7] - 11:19, 12:21,
14:3, 14:7, 19:19,
30:5, 86:3
either [4] - 21:15,
64:4, 77:9, 177:21
elected [5] - 9:11,
20:7, 21:22, 43:12,
83:19
electric [3] - 103:22,
147:14, 147:15
electrical [7] - 48:10,
49:7, 49:20, 92:22,
99:11, 146:7, 146:8
Electricity [1] - 180:18
electricity [24] - 24:18,
51:20, 57:23, 60:23,
69:20, 76:11, 87:2,
95:14, 97:19, 104:3,
104:8, 104:9,
104:12, 105:19,
114:9, 114:18,
115:13, 115:23,
117:14, 117:16,
117:17, 124:8,
140:14, 148:18
Electromagnetic [1] -
132:10
elegant [1] - 52:24
elements [1] - 47:3
eliminating [2] - 50:8,
103:15
Elizabeth [1] - 100:5
elsewhere [1] - 152:12
elusive [1] - 169:15
embraced [2] - 70:3,
150:11
embracing [1] -

161:16
emergency [1] - 92:16
emerging [1] - 122:23
emission [1] - 43:18
emissions [4] - 41:20,
45:7, 48:18, 51:21
emitted [1] - 132:20
emotion [1] - 133:24
emotional [3] - 86:3,
148:9, 182:16
emphasize [1] - 30:19
employ [1] - 151:24
employed [1] - 165:11
employee [1] - 148:3
EMT [1] - 5:14
enabled [1] - 38:7
encased [2] - 23:18,
89:14
encountered [2] -
86:7, 104:21
encourage [9] - 6:11,
84:16, 85:10, 123:3,
148:8, 150:2,
166:22, 173:7, 194:2
encouraged [1] -
85:15
encouraging [2] -
25:20, 150:6
encroaching [1] -
120:3
end [8] - 12:22, 41:11,
58:24, 87:17,
177:22, 179:2,
187:10, 194:10
endangered [8] -
122:9, 125:19,
126:12, 126:16,
131:22, 132:2,
132:18, 145:7
Endangered [1] -
124:11
ended [1] - 194:14
ending [2] - 145:10,
188:14
endorse [1] - 129:9
endorsed [1] - 71:7
endorsements [1] -
71:12
endure [1] - 187:11
enemies [1] - 64:18
energy [81] - 11:4,
11:9, 24:24, 25:10,
26:23, 26:24, 28:24,
29:8, 33:3, 33:4,
33:8, 36:7, 38:6,
43:17, 43:21, 48:11,
56:15, 57:18, 57:19,
57:20, 58:4, 64:16,
64:17, 69:3, 69:5,

69:11, 69:15, 69:18,
75:4, 75:14, 75:19,
76:2, 76:15, 76:16,
87:21, 88:16, 91:19,
91:24, 95:21, 95:24,
96:4, 97:24, 101:8,
102:13, 102:21,
103:14, 105:23,
108:20, 110:14,
120:24, 131:8,
135:6, 135:8,
136:22, 146:22,
147:5, 147:11,
147:16, 147:17,
149:4, 150:3,
150:10, 157:13,
157:20, 158:19,
165:18, 167:20,
173:2, 175:17,
180:12, 183:19,
184:2, 185:2,
185:13, 185:15,
185:17, 185:21,
185:24, 189:2
Energy [12] - 10:11,
11:3, 11:13, 34:4,
48:9, 50:17, 56:16,
114:21, 146:5,
147:6, 148:21
ENERGY [1] - 1:6
engine [2] - 104:5,
189:22
engineer [1] - 85:21
Engineers [1] - 92:4
engineers [1] - 163:13
Engineers' [2] - 40:9,
40:14
England [3] - 33:9,
50:23, 117:16
England's [2] - 99:17,
172:4
enhance [4] - 55:20,
55:23, 57:14, 103:14
enjoy [1] - 103:13
enjoyed [2] - 91:6,
142:22
enjoying [2] - 60:4,
102:22
ensure [2] - 13:11,
187:19
entanglement [1] -
127:7
enter [1] - 73:12
enterprise [2] - 57:16,
57:19
enterprises [1] -
102:17
enthusiasts [1] -
138:9

entire [14] - 49:8,
65:20, 78:19, 78:23,
89:23, 100:15,
128:4, 128:24,
132:22, 133:19,
136:5, 136:6, 158:5,
178:14
entirely [1] - 164:23
enviable [1] - 14:24
envious [1] - 133:22
environment [22] -
27:8, 40:17, 47:22,
57:3, 70:5, 93:3,
93:13, 93:14, 93:15,
103:20, 104:18,
108:10, 110:16,
132:14, 134:3,
157:23, 158:4,
182:18, 185:9,
187:6, 188:20,
188:24
Environmental [10] -
3:4, 10:9, 11:17,
12:9, 14:19, 14:20,
57:7, 71:24, 79:11,
134:6
environmental [20] -
3:9, 12:13, 13:24,
16:18, 26:15, 28:8,
28:21, 42:8, 76:22,
92:7, 94:8, 101:21,
107:17, 108:6,
109:2, 111:23,
141:17, 150:9,
151:9, 159:12
environmentalist [1] -
189:5
environmentalists [1]
- 93:20
environmentally [4] -
13:11, 47:21,
149:24, 153:18
epic [2] - 169:23,
170:7
equal [1] - 149:19
equate [1] - 54:23
equity [1] - 118:15
equivalent [1] - 6:17
era [1] - 97:7
erosion [3] - 94:2,
163:14, 185:23
error [1] - 133:2
errors [1] - 67:12
escalation [1] - 118:5
especially [8] - 19:14,
72:19, 88:17,
125:16, 140:17,
147:18, 166:8,
168:14

essence [1] - 58:18
essential [2] - 95:19,
170:11
essentially [4] - 6:16,
9:15, 16:10, 16:24
established [2] -
121:21, 172:10
estate [2] - 46:13,
140:16
estimated [4] - 48:23,
73:23, 74:6, 117:13
estimates [3] - 65:19,
65:24, 117:11
et [3] - 55:20, 112:7,
120:7
Europe [2] - 76:4,
91:12
European [1] - 72:20
evaluate [2] - 33:2,
171:21
evaluated [3] - 87:14,
154:24, 155:5
evaluating [2] - 122:8,
156:2
evening [23] - 2:4, 2:5,
2:10, 2:16, 10:6,
32:17, 48:7, 62:24,
78:14, 88:11, 96:20,
106:5, 123:23,
145:22, 148:7,
167:10, 171:11,
173:14, 182:5,
182:7, 186:9,
193:19, 194:10
event [3] - 124:19,
130:18, 138:4
eventually [2] - 128:5,
192:17
ever-encroaching [1]
- 120:3
evidence [4] - 41:16,
72:15, 73:18, 178:9
evolved [1] - 58:17
examined [1] - 119:5
example [12] - 10:23,
13:12, 17:11, 17:15,
66:9, 66:15, 93:16,
118:13, 134:20,
155:15, 163:8,
177:11
Example [1] - 65:18
examples [2] - 67:11,
155:20
excellent [2] - 109:6,
147:8
except [2] - 24:11,
173:22
excess [1] - 24:21
exclusive [4] - 71:8,

71:22, 72:4, 74:24 exclusivity [1] - 71:15 Excuse [1] - 75:10 Executive [2] - 40:13, 177:15 executive [1] - 165:12 exhaustive [1] - 50:14 exist [3] - 62:5, 122:4, 159:18 existing [2] - 33:12, 186:24 exists [1] - 132:19 exit [1] - 5:12 Exits [1] - 5:8 expect [4] - 27:16, 43:16, 121:22, 121:23 expected [4] - 74:10, 122:5, 149:18, 163:11 expects [1] - 149:21 expedient [1] - 157:8 expended [1] - 136:23 expense [1] - 96:8 expensive [5] - 49:9, 57:22, 57:24, 118:15, 151:23 experience [5] - 56:15, 89:8, 89:17, 166:20, 188:2 experienced [1] - 187:2 experts [3] - 67:13, 95:15, 177:24 explain [2] - 19:24, 28:13 exploration [1] - 131:8 exploring [1] - 29:4 expressed [2] - 46:20, 92:5 expressing [2] - 8:24, 30:15 extensive [2] - 10:18, 46:21 extent [3] - 8:19, 9:3, 26:19 extinction [4] - 131:22, 132:2, 136:10, 188:22 extracted [1] - 102:20 extraction [6] - 102:19, 102:24, 103:3, 104:13, 104:15, 105:13 extreme [1] - 94:2 extremely [1] - 83:15 eyes [1] - 56:8 eyesore [1] - 162:11	F	75:9, 92:2, 109:7, 138:15, 155:10 farm [59] - 16:4, 27:12, 28:8, 36:18, 37:24, 38:9, 39:23, 40:5, 42:16, 44:18, 45:8, 45:13, 45:22, 46:5, 46:15, 50:11, 52:18, 55:11, 63:10, 63:19, 68:6, 69:15, 70:6, 72:17, 73:8, 73:15, 73:21, 73:24, 74:3, 74:10, 74:16, 77:19, 81:6, 84:5, 84:22, 90:8, 91:9, 91:21, 92:8, 92:13, 93:2, 98:7, 106:12, 119:17, 120:12, 120:17, 120:22, 132:16, 134:12, 134:15, 138:19, 138:21, 163:7, 164:20, 172:13, 178:20, 179:5, 179:8, 185:24 Farm [1] - 73:5 farm's [2] - 30:16, 40:15 farm/wind [1] - 36:11 farms [12] - 31:21, 38:14, 49:10, 51:24, 68:18, 70:4, 72:16, 72:20, 73:3, 84:11, 163:20, 192:4 fashioned [1] - 110:21 fast [2] - 29:2, 139:21 faster [1] - 99:23 father [1] - 56:14 fathers [1] - 161:20 favor [17] - 26:23, 29:14, 40:8, 51:9, 52:3, 53:4, 56:20, 100:24, 106:2, 108:16, 130:10, 130:11, 156:21, 157:4, 165:18, 167:21, 172:24 favorable [2] - 63:22, 70:14 favorably [1] - 92:24 favorite [3] - 141:4, 173:17, 173:21 fear [5] - 53:19, 54:4, 54:17, 58:5, 60:21 fears [4] - 47:19, 55:11, 57:13, 57:14 feasibility [1] - 159:12 feasible [1] - 34:3 February [1] - 115:4	fed [1] - 181:6 federal [11] - 11:6, 66:20, 92:4, 93:10, 107:24, 108:13, 109:7, 121:14, 127:2, 135:4, 135:6 Federal [2] - 11:6, 66:11 federally [2] - 122:11, 125:19 federally-endangered [1] - 125:19 feds [1] - 99:9 feed [1] - 99:8 feedback [1] - 53:18 feeding [1] - 82:17 feeds [2] - 82:15, 82:20 feet [22] - 15:13, 33:23, 34:5, 34:7, 34:10, 34:17, 34:18, 46:8, 89:10, 100:2, 112:2, 132:24, 164:2, 164:4, 190:7, 190:18, 191:5, 191:9, 191:10, 191:16, 191:17, 191:18 FEIR [1] - 155:15 fellow [2] - 8:17, 138:9 felt [2] - 37:15, 61:20 fence [1] - 61:24 ferried [1] - 44:2 Ferries [1] - 140:18 ferries [3] - 58:12, 139:21, 159:8 ferrous [3] - 104:2, 104:4, 105:17 ferry [8] - 31:8, 39:13, 39:17, 77:16, 78:11, 80:8, 167:24, 176:24 ferryboat [1] - 46:6 few [6] - 17:11, 23:22, 67:11, 144:21, 174:3, 192:23 fewer [2] - 33:17, 33:21 fiber [2] - 180:24 fidelity [1] - 169:10 field [3] - 144:21, 173:19, 173:21 fields [2] - 46:11, 132:10 Figawi [2] - 63:16, 138:15 fight [1] - 141:10 file [2] - 107:22, 107:24	fill [1] - 5:23 filled [2] - 136:4, 138:13 filters [1] - 128:3 Final [2] - 19:19, 57:6 final [7] - 3:9, 14:3, 18:23, 19:19, 36:2, 47:5, 77:23 finally [1] - 184:3 Finally [4] - 31:20, 46:18, 67:5, 126:9 Financial [1] - 13:8 financial [1] - 103:7 findings [1] - 143:14 fine [1] - 168:5 Fine [1] - 113:15 finfish [1] - 54:7 Finish [2] - 74:15, 96:14 finish [5] - 34:24, 35:2, 145:14, 153:21, 170:8 fire [1] - 5:9 firm [3] - 2:6, 2:9, 92:12 First [9] - 4:12, 14:17, 20:6, 43:2, 53:15, 73:24, 111:23, 121:13, 179:21 first [21] - 4:14, 4:23, 20:6, 23:5, 26:13, 35:13, 39:9, 56:15, 57:24, 60:8, 60:12, 63:4, 63:15, 70:12, 75:4, 75:5, 75:19, 109:9, 146:14, 186:17, 186:18 first-rate [1] - 109:9 Firstly [1] - 148:5 Fish [1] - 128:16 fish [19] - 48:21, 55:20, 56:13, 66:8, 71:9, 72:8, 127:23, 128:2, 128:6, 128:10, 128:11, 129:13, 129:16, 129:17, 129:20, 133:7, 140:9, 170:11, 178:14 fisheries [3] - 40:17, 82:18, 94:15 Fisheries [2] - 19:3, 71:17 fisherman [4] - 167:15, 178:19, 179:3, 189:21 Fisherman's [1] - 65:22 fishermen [17] -
--	----------	--	---	--

50:13, 56:2, 66:8,
71:2, 71:23, 72:4,
72:5, 72:7, 72:19,
73:5, 73:12, 73:17,
152:12, 177:3,
178:11, 178:18,
179:8
fishermen's [1] -
178:8
Fishermen's [1] -
178:21
fishes [1] - 131:24
fishing [30] - 23:16,
54:5, 54:6, 55:15,
65:20, 66:2, 66:3,
66:4, 71:4, 71:6,
72:17, 72:23, 73:7,
73:10, 73:18, 73:21,
74:3, 74:5, 74:11,
74:17, 81:18,
127:15, 127:18,
151:9, 169:20,
170:3, 172:6,
176:20, 178:13,
178:22
fit [2] - 42:14, 135:13
FITZ [1] - 186:8
Fitz [1] - 186:9
FITZ-GIBBON [1] -
186:8
Fitz-Gibbon [1] -
186:9
five [10] - 4:13, 9:12,
20:8, 20:15, 22:11,
30:19, 115:10,
163:12, 180:7,
191:20
five-sixths [1] -
191:20
five-year [1] - 115:10
fix [1] - 122:22
fixed [2] - 48:13, 60:14
fixed-price [1] - 48:13
flash [1] - 60:15
flashing [1] - 60:13
flawed [3] - 93:11,
93:12, 121:10
flight [2] - 46:9, 168:3
flights [2] - 80:8,
164:9
Flint [2] - 22:5, 29:21
flip [1] - 8:12
float [2] - 99:21,
190:14
floating [3] - 34:9,
75:4, 159:5
floes [2] - 89:16,
166:13
floor [5] - 76:21,

77:10, 94:8, 94:15
Florida [1] - 126:17
flow [1] - 87:23
flows [2] - 192:20,
192:21
fluke [4] - 71:8, 71:11,
128:12, 169:14
flush [2] - 94:10,
128:7
flux [1] - 82:18
fly [2] - 58:14, 164:2
flying [2] - 79:20,
164:6
focus [4] - 9:10,
132:20, 137:13,
171:13
focused [2] - 126:3,
148:10
fog [11] - 19:14, 79:22,
79:24, 80:3, 86:14,
113:9, 145:2, 166:6,
166:19, 168:6
foggy [3] - 31:5,
83:15, 86:17
fold [1] - 181:9
folks [3] - 2:12, 2:14,
8:23
follow [2] - 32:23,
128:11
follow-up [1] - 32:23
followed [1] - 45:15
followers [1] - 98:2
Following [1] - 169:12
following [2] - 101:3,
127:17
follows [1] - 169:6
food [3] - 75:12,
129:14, 141:12
fooling [2] - 56:4,
78:13
foot [2] - 15:14,
163:24
football [1] - 46:11
footing [1] - 192:18
footprint [3] - 16:23,
50:10, 80:10
for-profit [3] - 102:5,
102:15, 102:17
forbearance [1] -
141:21
Force [1] - 87:15
force [4] - 31:7, 89:16,
166:17, 179:9
forced [1] - 179:4
forces [1] - 44:2
FOREGGER [1] -
111:14
Foregger [1] - 111:15
foregoing [1] - 195:8

foreign [2] - 140:24,
161:21
foremost [1] - 121:13
foreshortened [1] -
52:19
forest [1] - 79:7
forever [4] - 87:23,
120:3, 144:19, 170:4
forget [1] - 175:11
forgotten [1] - 148:11
form [2] - 157:13,
164:8
formation [1] - 31:14
former [1] - 158:24
forming [1] - 105:10
forms [3] - 5:23, 89:7,
157:20
forth [5] - 30:9, 58:11,
139:20, 159:9,
164:10
fortieth [1] - 127:18
Forty [1] - 72:5
forty [1] - 72:7
Forty-eight [1] - 72:5
forty-eight [1] - 72:7
forward [7] - 48:5,
70:6, 109:8, 146:11,
146:24, 189:8,
190:23
fossil [13] - 28:14,
33:12, 51:20, 64:19,
88:18, 91:20,
102:18, 103:2,
104:13, 110:12,
124:8, 129:23,
140:24
Foster [1] - 37:4
fought [4] - 27:21,
27:22, 27:23
foundation [1] - 17:20
foundations [1] - 34:6
founder [2] - 38:3,
114:5
founders [2] - 35:12,
78:15
fountains [1] - 5:7
four [20] - 20:15,
21:22, 22:10, 39:11,
50:15, 72:7, 73:16,
82:7, 90:3, 96:22,
105:10, 105:11,
126:20, 135:21,
161:5, 161:6,
161:14, 182:5, 182:8
four-year-old [1] -
39:11
fourth [2] - 41:22,
173:18
fraction [1] - 33:14

fragile [1] - 93:15
frankly [1] - 130:13
Frankly [1] - 95:12
free [1] - 162:9
FREEDMAN [1] - 61:2
Freedman [1] - 61:3
freeze [1] - 31:18
freeze-ups [1] - 31:18
freezes [2] - 31:16,
193:5
freight [1] - 30:9
frequent [1] - 121:6
fresh [4] - 83:2, 83:6,
103:13, 179:22
friend [1] - 147:13
friends [5] - 6:11,
6:20, 59:23, 142:23,
174:7
front [1] - 187:19
froze [1] - 192:22
frozen [1] - 90:4
fuel [19] - 17:18,
28:14, 29:13, 33:12,
33:13, 45:6, 48:12,
48:15, 50:8, 101:11,
101:14, 101:15,
101:23, 102:19,
103:2, 104:13,
104:14, 110:12,
124:8
fueled [1] - 188:21
fuels [6] - 51:21,
64:19, 88:18, 91:20,
129:23, 141:2
full [7] - 4:23, 38:24,
39:7, 63:6, 86:9,
89:9, 107:10
full-time [4] - 38:24,
39:7, 63:6, 107:10
fully [2] - 77:3, 81:8
fundamental [1] -
123:5
funded [1] - 50:18
funding [1] - 144:13
funds [2] - 187:22,
187:23
Furthermore [3] -
45:12, 118:2, 124:21
future [13] - 37:12,
37:21, 47:22, 51:16,
75:15, 77:7, 89:23,
98:5, 129:22, 134:4,
162:21, 169:17,
180:17

G

gain [3] - 154:3, 189:4,
189:7

gallons [3] - 101:5,
101:11, 101:24
gamble [1] - 159:15
game [2] - 107:21,
108:4
gaps [2] - 122:4,
122:14
garbage [2] - 143:20,
143:21
gargantuan [1] -
120:8
gas [9] - 10:17, 41:20,
50:3, 51:21, 97:19,
104:14, 105:9,
105:22, 127:3
gasoline [1] - 180:21
Gaspe [1] - 115:9
gather [1] - 145:11
gathered [1] - 96:4
gathering [1] - 144:23
gear [15] - 65:23, 66:3,
71:4, 71:5, 71:22,
72:4, 72:5, 73:2,
73:5, 73:10, 73:21,
74:2, 74:4, 74:11,
74:17
general [7] - 9:22,
30:14, 51:18, 54:10,
74:22, 150:4, 168:4
General's [1] - 41:5
generally [1] - 133:5
generate [1] - 117:5
generated [11] -
29:11, 29:12, 99:11,
101:22, 102:13,
104:10, 114:18,
114:24, 115:13,
124:8, 125:2
generates [2] - 104:3,
105:18
generating [2] - 114:9,
116:14
generation [19] -
26:23, 26:24, 28:15,
28:22, 103:5,
103:17, 103:19,
103:23, 104:12,
105:7, 105:10,
114:14, 115:20,
127:14, 129:21,
172:23, 175:8, 175:9
generations [1] -
136:14
generator [1] - 189:23
generators [3] - 16:16,
177:22, 189:24
gentleman [3] - 27:15,
27:18, 90:16
gentlemen [1] -

145:23
geographic [1] - 127:11
geopolitically [1] - 50:2
George [4] - 88:12, 170:6, 185:6, 193:2
German [1] - 59:22
Germans [1] - 23:11
Germany [2] - 34:15, 59:24
GERMINARA [2] - 133:14, 135:19
Germinara [1] - 135:20
GIBBON [1] - 186:8
Gibbon [1] - 186:9
girls' [1] - 5:5
given [7] - 58:9, 95:9, 101:10, 118:5, 125:16, 129:2, 155:21
glacial [1] - 192:16
glacier [4] - 190:5, 190:6, 190:20, 191:3
glad [2] - 2:13, 37:22
glass [2] - 5:3, 45:15
Glenn [1] - 116:23
gliding [1] - 54:10
global [15] - 40:21, 41:10, 41:17, 45:5, 45:6, 45:10, 45:12, 48:20, 61:18, 91:21, 107:18, 108:21, 110:11, 111:3, 162:4
globally [2] - 121:2, 157:23
globe [1] - 100:15
glow [1] - 112:5
goal [3] - 49:19, 69:12, 114:17
Golding [2] - 38:24, 39:7
GOLDING [3] - 38:23, 39:6, 39:17
Gordon [2] - 96:3, 96:21
Gore [1] - 41:14
governing [1] - 121:15
Government [2] - 130:22, 185:19
government [7] - 27:18, 49:18, 50:15, 87:15, 107:23, 135:5, 147:2
grade [1] - 173:18
GRAHAM [1] - 123:12
Graham [1] - 2:8
grandchildren [3] -

51:4, 62:10, 141:19
grandparents [1] - 39:9
grandson [1] - 146:15
grant [1] - 102:11
Grant [1] - 133:16
granted [2] - 50:23, 73:15
granting [1] - 92:12
grants [1] - 71:8
grass [1] - 52:20
grave [1] - 41:7
gravel [1] - 127:3
gravity [1] - 24:19
Gray [2] - 80:2, 113:9
Great [7] - 90:23, 91:7, 91:10, 91:16, 120:6, 128:8, 139:23
great [12] - 22:24, 37:18, 38:22, 39:9, 44:18, 62:17, 68:20, 137:15, 152:3, 161:8, 161:9, 193:11
great-grandparents [1] - 39:9
greater [5] - 33:17, 33:23, 111:6, 112:15, 126:8
greatest [2] - 9:3, 108:22
Green [2] - 185:2, 185:23
green [6] - 9:16, 16:11, 112:11, 156:11, 156:22, 181:14
greenhouse [2] - 41:20, 89:22
grew [1] - 107:7
grid [4] - 50:11, 63:12, 181:14, 181:16
GROSS [3] - 189:13, 189:19, 193:8
gross [1] - 81:6
Gross [1] - 189:19
grossly [2] - 78:21, 93:12
ground [7] - 7:10, 42:2, 69:19, 169:8, 185:18, 193:6
grounds [5] - 71:4, 72:18, 73:7, 119:18, 178:13
group [7] - 53:21, 68:5, 72:4, 78:6, 108:15, 114:6, 137:20
groups [4] - 9:13, 107:17, 107:21,

109:3
growing [5] - 10:18, 41:7, 161:3, 181:12, 181:20
growth [1] - 110:21
guarantee [5] - 36:19, 92:19, 116:16, 116:17, 187:18
guaranteed [1] - 103:7
guarantees [1] - 186:14
Guard [19] - 13:14, 30:21, 54:11, 67:6, 80:17, 80:22, 86:9, 88:14, 88:23, 89:19, 95:2, 122:6, 140:21, 158:24, 167:3, 168:21, 171:17, 171:19, 172:6
guess [2] - 19:21, 25:2
guessed [1] - 141:5
guidelines [5] - 4:12, 7:9, 8:10, 8:12, 9:22
guilt [1] - 112:11
Gulf [1] - 129:12
gust [1] - 192:7
gusting [3] - 98:24, 192:10, 192:13
gusts [1] - 192:8
guys [5] - 110:8, 143:3, 145:11, 174:23, 176:2
Gym [1] - 6:19
Gymnasium [1] - 194:6
gymnasium [1] - 5:2

H

habitat [5] - 125:18, 127:6, 130:2, 132:9, 170:12
habits [1] - 112:7
half [12] - 15:9, 27:6, 28:2, 63:13, 63:18, 96:22, 99:22, 114:19, 115:14, 178:10, 178:24, 179:6
hall [2] - 4:19, 4:24
hand [1] - 45:24
handling [1] - 10:24
hands [2] - 7:5, 21:17
hang [2] - 54:10, 176:5
happy [2] - 130:8, 156:15
harassment [1] - 125:3

harbor [2] - 90:4, 93:15
Harbor [2] - 63:9, 120:7
hard [8] - 53:16, 75:6, 75:7, 76:4, 79:2, 113:24, 156:13, 184:18
hardest [1] - 8:22
harmful [2] - 48:18, 132:15
harming [1] - 57:2
harness [1] - 185:21
harnessing [1] - 133:23
harsh [3] - 104:17, 105:2, 187:6
harvested [1] - 152:18
harvesting [1] - 105:7
hat [1] - 107:3
Hatch [1] - 143:18
hatch [1] - 128:7
hate [1] - 61:23
havoc [1] - 110:15
hazard [7] - 66:12, 80:15, 101:6, 101:21, 172:14, 172:22, 173:6
hazardous [1] - 179:2
hazards [1] - 105:12
head [2] - 17:12, 182:13
heads [1] - 25:11
hear [15] - 4:7, 7:17, 14:16, 25:21, 26:2, 53:18, 54:13, 57:9, 58:6, 86:14, 94:23, 98:8, 169:20, 183:16, 185:4
heard [27] - 7:14, 21:8, 23:12, 24:12, 28:13, 30:14, 57:21, 78:3, 86:7, 87:20, 88:22, 90:14, 95:5, 112:12, 112:14, 115:22, 129:8, 143:6, 143:20, 151:7, 158:22, 171:17, 171:18, 176:19, 183:7, 185:14, 193:20
Hearing [1] - 1:10
hearing [16] - 2:4, 2:19, 2:23, 40:9, 42:13, 44:4, 44:12, 97:8, 108:16, 109:20, 130:24, 133:5, 142:22, 146:12, 168:11,

183:16
hearings [3] - 7:3, 19:18, 75:7
heart [3] - 107:5, 107:6, 189:4
heartbreak [2] - 188:21
heartily [1] - 141:20
Heather [1] - 123:24
heavy [3] - 19:14, 146:6, 168:20
height [5] - 15:24, 24:8, 85:8, 99:22, 100:2
heighten [1] - 129:3
helicopter [1] - 168:23
helicopters [1] - 85:5
Hello [5] - 42:20, 53:13, 83:22, 121:5, 133:16
help [7] - 3:17, 4:2, 5:15, 14:20, 36:21, 53:11, 140:23
helpful [2] - 3:21, 8:3
helps [2] - 3:23, 160:19
HEMMENWAY [1] - 98:15
Hemmenway [1] - 98:15
herald [1] - 38:13
hereby [1] - 195:7
herrings [1] - 140:6
Hi [7] - 30:7, 148:2, 154:5, 156:8, 177:2, 179:19, 182:2
Hi-Line [2] - 30:7, 177:2
High [1] - 1:13
high [14] - 24:5, 24:8, 33:13, 58:3, 58:4, 77:17, 103:20, 110:20, 112:2, 117:4, 117:11, 166:7, 166:19, 176:10
high-efficiency [1] - 33:13
higher [5] - 48:16, 118:9, 118:13, 125:2, 180:5
highest [1] - 154:13
highly [1] - 169:21
highway [1] - 191:12
highways [1] - 159:20
hill [1] - 69:21
Hill [1] - 190:11
hillside [1] - 44:15
hilltop [1] - 44:14

hired [2] - 14:19, 14:20
Historic [1] - 51:13
historic [8] - 55:5, 78:24, 100:10, 122:12, 141:24, 175:20, 182:17
historical [3] - 73:18, 155:5, 174:6
Historically [1] - 169:7
history [2] - 58:19, 69:24
hold [3] - 71:6, 83:21, 127:20
holder [1] - 71:15
Hole [2] - 39:19, 44:24
hole [5] - 84:12, 86:17, 94:22, 113:4, 192:16
Holy [1] - 42:12
home [7] - 57:3, 147:14, 158:5, 171:8, 174:14, 174:24, 175:5
Homeland [4] - 90:7, 90:8, 128:22, 130:21
homes [5] - 49:23, 49:24, 94:3, 119:24, 153:14
honorary [1] - 85:21
hope [29] - 3:23, 29:15, 31:23, 44:5, 53:4, 61:17, 62:14, 86:5, 92:23, 96:16, 110:23, 116:19, 134:2, 135:13, 136:17, 136:21, 137:2, 143:8, 143:24, 156:19, 157:21, 158:15, 158:16, 158:21, 162:19, 174:17, 175:13, 178:10
Hope [1] - 162:21
hopefully [3] - 95:24, 147:7, 169:17
hopes [1] - 185:8
horizon [5] - 74:13, 91:7, 100:3, 184:7
Horns [1] - 54:16
horrific [1] - 104:24
Horseshoe [25] - 15:8, 15:17, 15:21, 16:12, 31:8, 46:23, 49:13, 52:6, 56:14, 66:8, 71:3, 71:9, 71:19, 72:9, 72:11, 73:23, 74:2, 74:4, 98:22, 101:2, 111:10, 128:13, 130:3,

140:10, 169:19
horseshoe [1] - 63:19
host [1] - 17:9
hot [4] - 97:2, 100:19, 169:15, 181:2
hour [2] - 24:7, 118:10
hourly [1] - 48:15
hours [8] - 4:13, 4:14, 98:20, 98:23, 109:15, 109:19, 192:20, 192:21
house [2] - 45:16, 150:24
House [2] - 137:22, 175:24
houses [2] - 55:5, 68:15
huge [3] - 51:22, 164:15, 173:6
Hull [2] - 147:8, 147:13
hulled [1] - 50:7
hulls [1] - 101:12
human [1] - 37:7
humans [1] - 133:5
humans' [1] - 133:8
humble [1] - 174:4
hundred [4] - 25:5, 33:23, 34:16, 97:18
hundreds [2] - 132:6, 174:11
hunker [1] - 181:14
hunted [1] - 136:9
hunters [1] - 45:16
husbands [1] - 161:20
Hyannis [7] - 30:10, 75:17, 141:5, 164:7, 166:17, 176:18, 192:23
hydro [1] - 104:5
hydroelectric [2] - 99:15, 115:15
hypocrisy [1] - 120:13
hysteria [1] - 54:19

I

lan [2] - 38:23, 39:6
ice [13] - 31:14, 79:22, 89:5, 89:6, 89:13, 89:16, 90:3, 166:13, 170:7, 192:22, 192:24, 193:3, 193:10
idea [9] - 53:24, 63:10, 127:21, 129:7, 150:23, 161:7, 161:8, 161:9, 193:11
identification [1] -

12:11
identified [3] - 50:17, 71:20, 71:23
identify [2] - 12:4, 177:20
ifs [1] - 64:11
ignore [2] - 80:24, 115:7
ignored [1] - 79:12
ignores [1] - 93:12
Il [2] - 16:16, 16:20
immediate [1] - 126:15
immediately [1] - 163:14
Impact [10] - 3:4, 10:9, 11:17, 12:9, 14:19, 57:7, 66:19, 71:24, 79:12, 134:6
impact [58] - 3:9, 17:6, 17:7, 17:16, 17:19, 18:8, 18:11, 19:6, 19:9, 19:14, 22:20, 22:24, 27:7, 31:3, 40:21, 41:7, 54:18, 55:14, 58:23, 65:15, 65:24, 66:4, 66:10, 70:2, 76:22, 84:23, 85:6, 91:15, 92:7, 94:17, 95:11, 96:10, 101:17, 106:15, 112:8, 113:6, 113:8, 119:2, 119:3, 119:5, 125:6, 125:21, 126:4, 131:4, 139:3, 139:11, 145:6, 149:23, 150:13, 154:7, 154:21, 154:22, 155:10, 155:17, 159:12, 159:13, 163:15
impact-producing [2] - 17:6, 17:7
impacted [1] - 95:4
Impacts [1] - 41:2
impacts [29] - 12:6, 16:18, 17:5, 18:19, 18:20, 19:4, 19:5, 33:21, 43:8, 43:9, 43:10, 45:21, 65:11, 66:17, 67:6, 67:18, 93:13, 111:23, 122:12, 124:9, 124:18, 126:2, 126:9, 126:11, 127:5, 127:8, 151:8, 155:16, 155:24
imperative [1] - 122:19

implemented [1] - 38:7
implementing [1] - 92:24
implore [3] - 112:15, 147:16, 171:20
important [20] - 2:17, 2:24, 3:12, 5:16, 14:6, 21:8, 78:22, 108:18, 110:6, 125:11, 125:16, 148:14, 154:15, 156:24, 162:6, 171:13, 171:14, 178:12, 193:20, 193:21
importantly [1] - 165:17
imported [1] - 50:2
imposes [1] - 72:18
impossible [1] - 179:2
impractical [1] - 103:21
in-depth [1] - 65:21
inability [1] - 72:24
inaccurate [1] - 53:19
inaccurately [1] - 154:20
inadequate [1] - 154:9
inadequately [2] - 124:13, 126:10
inappropriate [1] - 172:3
inception [1] - 27:22
inches [1] - 90:3
inclement [1] - 144:24
include [5] - 15:24, 45:2, 53:23, 117:6, 147:17
included [2] - 15:23, 122:5
includes [2] - 54:9, 117:23
including [6] - 50:16, 106:16, 122:24, 125:10, 143:19, 149:13
inclusive [1] - 47:2
incoherent [1] - 75:10
income [2] - 72:10, 72:14
incoming [1] - 112:20
incomplete [1] - 145:4
inconsequential [1] - 45:23
inconsistent [1] - 57:14
increase [3] - 118:16, 118:19, 185:22

increased [4] - 28:6, 31:9, 46:15, 99:17
increasing [1] - 149:6
increasingly [1] - 119:20
incurring [1] - 188:11
indeed [2] - 55:15, 55:17
independence [2] - 162:15, 175:17
independent [5] - 2:8, 24:24, 25:10, 67:13, 99:6
Indians [1] - 93:23
indicated [2] - 27:20, 84:9
indication [1] - 32:12
indicted [1] - 99:9
Individual [1] - 9:13
Industrial [1] - 100:17
industrial [7] - 65:14, 67:17, 79:14, 81:20, 81:22, 82:4, 172:16
industrialization [2] - 114:6, 170:2
industry [1] - 140:16
ineffective [1] - 140:11
inevitably [1] - 168:16
infancy [1] - 87:22
infeasibility [1] - 103:19
inform [1] - 12:2
information [18] - 6:6, 6:9, 12:2, 12:13, 15:3, 61:7, 63:24, 82:7, 82:8, 115:17, 116:13, 122:4, 123:7, 131:2, 134:8, 143:16, 143:22, 144:23
ingenuity [1] - 162:15
INGLIS [3] - 100:22, 119:11, 119:15
Inglis [2] - 100:23, 119:12
inhabited [1] - 132:17
inherent [1] - 147:2
inherently [1] - 76:18
initial [2] - 132:13, 183:12
inner [1] - 15:15
inner-array [1] - 15:15
innovator [1] - 58:20
innuendo [2] - 52:12, 140:5
innuendos [1] - 53:20
input [7] - 3:3, 3:5, 3:12, 6:3, 6:23,

<p>11:21, 147:4 Inquirer [1] - 46:21 inshore [2] - 71:11, 82:16 inside [1] - 19:13 insignificant [2] - 94:7, 94:11 insincere [1] - 177:10 inspections [1] - 13:21 instability [1] - 51:22 install [5] - 42:11, 42:14, 75:19, 75:24, 76:2 installation [2] - 77:5, 132:12 installations [1] - 125:24 installed [4] - 34:11, 163:8, 163:10, 185:17 instances [1] - 155:20 Instead [1] - 161:16 instead [2] - 120:23, 161:17 Institute [1] - 45:2 Institution [1] - 84:19 instrument [1] - 103:7 insuring [1] - 93:2 intelligence [1] - 36:23 intelligent [1] - 86:11 intended [3] - 44:5, 57:13, 121:18 intent [1] - 56:4 intention [1] - 42:10 interactions [1] - 124:21 interest [5] - 10:13, 35:20, 43:15, 93:4, 185:9 interesting [2] - 182:5 Interestingly [1] - 36:13 interference [5] - 67:8, 80:6, 80:18, 81:2, 81:7 Intergovernmental [1] - 41:12 INTERIOR [1] - 1:4 Interior [2] - 102:11, 109:6 internal [1] - 104:5 International [1] - 124:4 interstate [1] - 159:20 interstates [1] - 159:22 intervening [1] - 92:8</p>	<p>intervenor [1] - 108:12 interviewed [1] - 73:17 introduce [2] - 11:12, 14:10 introductory [1] - 41:6 intrusion [1] - 93:17 invasive [1] - 76:20 invertebrates [1] - 82:17 invested [1] - 181:8 investigate [2] - 23:8, 81:8 investigated [1] - 32:22 investigating [1] - 32:21 investigation [1] - 80:18 investment [2] - 50:19, 181:11 invites [1] - 73:12 involved [7] - 11:16, 18:15, 28:22, 75:8, 86:24, 142:18, 188:16 involvement [1] - 2:24 involves [1] - 104:13 involving [1] - 10:18 IPCC's [1] - 41:21 irreplaceable [1] - 174:9 irresponsible [2] - 150:14, 172:16 irreversible [1] - 174:6 irrevocably [1] - 120:5 Island [14] - 15:11, 17:3, 64:15, 70:22, 81:17, 87:10, 87:18, 100:23, 106:10, 115:23, 116:8, 120:10, 124:22, 130:18 island [30] - 22:20, 37:4, 37:5, 37:8, 37:9, 37:11, 39:10, 40:4, 43:23, 44:3, 44:5, 44:21, 53:21, 78:23, 79:2, 79:3, 79:9, 79:16, 79:17, 87:16, 96:24, 97:4, 113:8, 120:20, 121:7, 139:9, 167:21, 182:17, 190:11, 190:12 Island's [1] - 119:22 Islanders [1] - 175:7 Islands [13] - 69:16, 95:14, 119:3,</p>	<p>134:19, 140:4, 147:3, 147:19, 152:7, 155:24, 163:22, 164:18, 170:4, 174:20 isolation [1] - 105:3 issue [21] - 2:17, 9:5, 65:16, 82:24, 85:10, 85:12, 85:15, 86:4, 110:6, 112:11, 123:5, 132:11, 142:24, 156:19, 168:10, 168:14, 169:2, 169:3, 182:15, 182:16 issued [3] - 66:12, 122:16, 126:24 issues [23] - 12:10, 14:4, 26:15, 26:16, 26:17, 28:22, 33:10, 46:19, 86:2, 86:6, 135:11, 148:13, 148:21, 156:23, 157:5, 157:11, 157:22, 158:3, 162:7, 166:23, 187:5, 194:7 item [2] - 52:13, 180:16 itself [3] - 5:19, 15:6, 162:3</p>	<p>162:2, 181:20, 181:21, 183:16 keeping [1] - 181:3 Kennedy [2] - 75:16, 85:14 Kennedy's [1] - 64:6 key [4] - 11:23, 30:19, 86:6, 86:12 keyboard [1] - 109:18 keys [1] - 116:18 kill [1] - 45:17 killed [1] - 81:9 kills [1] - 60:10 kilovolt [2] - 15:15, 15:16 kilowatt [1] - 118:10 kilowatthour [2] - 114:19, 115:14 kind [10] - 3:24, 26:4, 61:23, 81:20, 85:6, 129:24, 136:8, 138:10, 138:11, 184:14 kinds [5] - 26:17, 81:22, 159:8, 168:22, 176:2 knocking [1] - 48:15 knot [3] - 99:3, 99:13, 191:14 knots [3] - 98:21, 98:24 known [7] - 6:23, 23:6, 91:3, 136:3, 163:9, 165:17, 169:7 knows [3] - 121:22, 145:2, 164:17 KOPKO [1] - 25:22 Kopko [2] - 22:3, 26:5 KURKER [1] - 176:16 Kurker [1] - 176:17 Kuwait [1] - 181:7</p>	<p>land [16] - 23:3, 23:10, 23:12, 44:22, 45:2, 69:14, 90:23, 95:22, 115:8, 121:24, 140:2, 175:6, 180:6, 180:8, 189:24, 193:12 land-based [5] - 23:12, 95:22, 180:6, 180:8, 189:24 landed [1] - 71:17 landfill [2] - 68:3, 149:13 landmark [1] - 182:18 lane [1] - 59:18 lanes [3] - 77:16, 159:7 LANG [2] - 170:20, 171:3 Lang [1] - 171:5 large [10] - 19:8, 34:13, 49:6, 49:8, 67:9, 91:13, 124:16, 129:13, 151:17, 188:5 large-scale [1] - 34:13 largely [2] - 135:7, 154:11 larger [7] - 6:14, 9:12, 118:18, 134:18, 157:22, 166:9, 166:18 largest [2] - 50:22, 169:8 Larry [1] - 81:15 last [21] - 2:13, 3:19, 6:15, 20:4, 32:19, 40:24, 41:22, 44:10, 46:20, 65:7, 70:23, 78:17, 95:23, 98:19, 106:24, 138:5, 153:22, 178:9, 189:17, 190:2 Last [3] - 9:7, 30:13, 42:5 late [4] - 93:16, 128:5, 146:5, 167:11 Latin [1] - 96:13 Lattice [1] - 34:9 launch [1] - 64:7 launched [2] - 44:19, 75:3 launching [1] - 77:3 Laura [1] - 42:21 law [1] - 13:10 lawsuit [2] - 73:13, 73:20 lawyer [3] - 106:24, 107:6, 107:14</p>
J			<p>jackets [1] - 34:7 Jacqueline [1] - 32:18 Jakubowski [1] - 76:5 Jennifer [3] - 2:7, 3:17, 21:16 Jerome [1] - 145:24 Jersey [1] - 153:10 Jetties [1] - 63:16 Jim [2] - 96:3, 189:19 job [2] - 109:6, 165:19 jobs [2] - 54:5, 100:9 John [3] - 64:6, 70:21, 75:16 JUDSON [2] - 165:5, 165:8 Judson [1] - 165:8 juvenile [1] - 128:11</p>	<p style="text-align: center;">L</p> <p>Lab [3] - 34:5, 56:16, 146:5 LaBelle [3] - 10:5, 10:10, 194:11 labelled [1] - 155:14 lack [3] - 43:13, 116:8, 116:12 ladies [1] - 145:22 Lady [2] - 80:2, 113:9 LaFRANCE [1] - 170:23 lamp [2] - 136:5, 136:16 lamps [1] - 136:4 Lamson [1] - 30:15</p>
K			<p>KAIZER [3] - 167:8, 167:10, 170:10 Kaizer [1] - 167:12 Kate [1] - 148:2 keep [8] - 21:12, 70:11, 97:8, 148:9,</p>	

lay [1] - 36:17
layer [2] - 101:13, 101:14
lays [1] - 128:6
leader [1] - 58:20
leaders [3] - 97:23, 98:2, 98:3
leadership [1] - 58:21
leading [4] - 41:4, 61:13, 61:14
learn [1] - 36:4
lease [5] - 75:18, 92:19, 102:11, 102:15, 102:23
leasing [2] - 10:21, 127:3
least [12] - 20:20, 42:15, 43:15, 44:23, 46:6, 72:21, 90:3, 116:15, 126:21, 171:21, 179:10, 185:22
leave [2] - 14:9, 77:9
leaving [1] - 46:12
led [1] - 41:17
left [4] - 4:24, 146:10, 174:2, 181:22
legacy [1] - 170:5
legal [2] - 73:6, 107:22
legislation [1] - 148:17
legitimate [1] - 120:11
Lehman [1] - 181:8
Len [1] - 135:19
lend [1] - 37:19
length [1] - 112:16
Leonard [1] - 6:19
less [4] - 34:19, 45:17, 50:10, 98:19
lessening [1] - 101:24
lesser [2] - 166:9, 180:8
letter [2] - 84:14, 92:3
Level [1] - 125:2
level [8] - 45:4, 107:23, 132:22, 151:14, 151:16, 152:6, 166:20, 191:5
levels [3] - 18:8, 125:3, 151:17
Libya [1] - 181:20
license [1] - 164:22
lie [1] - 141:5
lies [2] - 140:6, 169:23
life [30] - 54:18, 54:21, 55:21, 65:21, 67:23, 74:10, 94:16, 101:6, 102:13, 103:4, 107:19, 127:23,

128:12, 128:15, 130:17, 133:19, 139:18, 146:6, 163:11, 165:14, 170:3, 173:21, 174:15, 175:4, 175:7, 176:11, 180:5, 180:6, 182:22, 187:11
life-sustaining [1] - 175:4
lifeboat [1] - 44:19
lifeboats [1] - 44:18
lifelines [1] - 79:15
lifelong [1] - 173:15
lifetime [1] - 39:21
light [14] - 9:15, 36:4, 36:16, 79:6, 112:3, 113:12, 128:17, 136:5, 136:16, 136:17, 156:11, 156:14, 156:22
Light [2] - 33:5, 36:6
lighthouse [1] - 136:2
lighthouses [1] - 89:2
lighting [1] - 145:5
lights [9] - 60:12, 60:15, 60:17, 112:4, 112:9, 113:7, 113:10, 156:12, 194:13
likely [5] - 102:2, 117:11, 118:5, 149:23, 180:7
limit [4] - 9:18, 22:23, 34:5, 34:7
limited [1] - 16:7
limits [2] - 9:10, 9:11
line [8] - 14:9, 16:5, 19:16, 21:5, 23:20, 149:18, 164:11, 176:24
Line [2] - 30:7, 177:2
lines [2] - 78:11, 159:24
link [1] - 105:9
linked [1] - 132:6
links [2] - 105:10, 105:11
LIPTON [1] - 130:7
Lipton [1] - 130:8
list [1] - 42:9
listed [1] - 11:5
listen [3] - 4:4, 29:24, 41:3
Listen [1] - 8:15
listening [6] - 61:9, 62:16, 65:8, 142:2, 160:22, 171:10

listing [1] - 166:21
live [12] - 56:7, 56:12, 61:3, 79:9, 93:7, 107:8, 112:17, 129:5, 138:8, 144:12, 153:15, 171:5
lived [11] - 37:13, 42:22, 44:7, 51:10, 96:21, 100:14, 119:19, 137:9, 139:16, 142:20, 164:17
livelihood [2] - 55:4, 144:8
livelihoods [1] - 55:24
lives [3] - 51:17, 98:6, 147:13
living [5] - 29:22, 107:9, 129:5, 179:10, 179:13
LNG [2] - 50:4, 126:18
local [9] - 35:21, 36:2, 45:14, 54:4, 92:2, 154:19, 156:2, 158:4
Local [1] - 107:24
locally [1] - 120:24
located [5] - 15:7, 77:15, 93:17, 132:17, 151:2
location [17] - 6:12, 30:16, 31:22, 46:19, 46:24, 55:18, 66:22, 75:20, 84:5, 105:16, 106:11, 130:12, 131:18, 154:23, 172:3, 173:8, 194:5
locations [10] - 4:18, 54:16, 94:20, 130:4, 155:2, 155:4, 155:7, 155:10, 172:11, 173:4
locker [1] - 5:5
logically [1] - 101:18
logistics [2] - 4:10, 5:18
LOHMANN [1] - 90:20
Lohmann [2] - 90:21, 185:8
long-term [3] - 91:23, 92:20, 132:14
long-time [1] - 67:23
longevity [1] - 193:12
look [31] - 5:15, 12:16, 16:8, 17:13, 47:18, 65:11, 65:17, 68:9, 68:13, 70:4, 87:12, 92:23, 104:11, 109:8, 134:5,

134:12, 134:17, 134:21, 134:22, 134:24, 135:2, 135:6, 135:9, 147:7, 151:13, 152:6, 166:4, 170:6, 184:9, 184:11, 190:4
looked [8] - 16:15, 16:22, 17:8, 60:16, 68:14, 88:2, 143:11, 163:13
looking [8] - 11:9, 12:8, 12:10, 13:22, 134:13, 135:12, 151:18, 152:19
looks [3] - 51:15, 98:4, 151:14
looming [1] - 120:5
loose [1] - 119:21
losing [3] - 44:22, 45:24, 192:18
loss [7] - 45:4, 65:19, 73:7, 103:11, 112:21, 188:22, 189:6
lost [2] - 45:3, 94:3
Louder [1] - 39:3
love [4] - 23:24, 97:3, 107:11, 173:16
lovers [1] - 54:24
low [8] - 31:16, 113:9, 113:12, 117:12, 118:5, 118:17, 152:20, 193:5
lower [2] - 33:18, 77:5
LPG [1] - 159:5
lung [1] - 135:3
Lyman [1] - 156:8

M

machine [1] - 82:12
Madaket [2] - 23:6, 23:7
magically [1] - 141:8
magnificent [1] - 141:24
magnitude [1] - 172:9
mail [4] - 72:2, 72:6, 194:3
mails [1] - 6:21
main [4] - 37:23, 106:14, 120:21, 125:20
Maine [2] - 49:3, 89:2
mainland [4] - 24:16, 24:22, 132:7, 152:9
Maintain [1] - 8:14
maintenance [7] -

48:13, 60:9, 92:15, 103:21, 105:5, 105:12, 130:21
majestic [1] - 174:13
Major [1] - 19:6
major [12] - 5:17, 18:15, 43:10, 50:15, 50:16, 60:10, 64:20, 88:21, 91:22, 143:10, 176:21, 187:3
majority [1] - 106:11
Mall [1] - 23:7
Mammal [2] - 124:12, 125:4
mammal [1] - 19:3
mammals [5] - 125:11, 126:3, 131:24, 142:19, 145:6
man [1] - 41:19
man-made [1] - 41:19
manage [2] - 10:16, 63:17
Management [7] - 5:24, 10:12, 43:3, 48:8, 56:23, 102:9, 193:23
MANAGEMENT [1] - 1:5
Management's [1] - 4:4
Manager [1] - 22:8
manager [5] - 11:13, 11:15, 14:15, 30:14, 74:22
mandated [3] - 43:18, 69:3, 76:6
maneuver [1] - 166:10
manifested [1] - 28:10
manner [1] - 8:18
Manomet [1] - 100:6
march [1] - 120:3
March [4] - 1:11, 98:20, 98:23, 195:10
marginal [1] - 63:23
Marina [1] - 176:18
marina [1] - 177:4
marine [12] - 18:24, 55:21, 100:11, 101:6, 103:19, 104:17, 125:10, 126:2, 142:19, 170:3, 176:20, 189:22
Marine [4] - 19:3, 71:16, 124:12, 125:3
mariners [3] - 100:14, 176:22, 177:18
marked [1] - 120:3

market [7] - 48:15, 71:14, 97:13, 117:16, 117:19, 117:20, 117:22
MARKS [2] - 67:22, 68:2
Marks [1] - 67:22
Marlin [1] - 129:18
marred [1] - 151:5
Martha's [7] - 15:10, 36:8, 75:21, 87:17, 131:12, 164:8, 194:4
Martin [1] - 76:4
Mashpee [1] - 114:4
masked [1] - 177:21
Mass [5] - 50:21, 147:8, 148:16, 148:21, 178:20
mass [3] - 103:24, 104:2, 104:4
Massachusetts [18] - 1:15, 11:8, 54:23, 61:13, 65:22, 69:4, 69:11, 71:2, 71:6, 71:16, 71:18, 77:20, 91:3, 117:20, 131:9, 131:15, 148:19, 195:7
massive [4] - 65:14, 67:17, 80:6, 187:7
Massive [1] - 140:19
math [1] - 95:16
mathematical [1] - 42:3
Matt [1] - 106:23
matter [4] - 22:21, 160:6, 178:2, 195:10
Maureen [1] - 11:12
mayor [2] - 55:7, 60:5
McCalley [2] - 137:7, 137:8
McGregor [2] - 96:20, 96:21
McGuire [4] - 160:18, 160:21, 160:22, 162:21
mean [3] - 37:2, 146:21, 184:13
meaning [1] - 100:3
means [12] - 18:13, 20:23, 51:19, 79:19, 79:20, 95:20, 95:24, 103:24, 104:9, 131:23, 164:13, 169:10
meant [1] - 78:17
meantime [1] - 40:20
measurable [1] - 18:11

measure [1] - 74:6
measures [4] - 12:12, 92:15, 93:2, 125:14
mecca [3] - 137:18, 137:19
mechanical [2] - 134:16, 187:5
media [1] - 118:7
median [3] - 159:22, 160:4, 160:12
medieval [1] - 42:15
meet [2] - 33:3, 69:11
meeting [24] - 2:9, 2:12, 2:15, 3:13, 3:18, 3:24, 4:2, 4:11, 5:18, 5:20, 6:12, 6:15, 7:4, 7:8, 7:10, 7:16, 19:23, 20:4, 68:5, 83:23, 110:23, 149:10, 185:3
meetings [4] - 6:5, 7:7, 11:22, 194:3
meets [1] - 54:11
megawatt [3] - 25:4, 115:8, 186:22
megawatthour [2] - 117:18, 117:21
megawatts [8] - 15:11, 24:17, 25:5, 33:7, 48:23, 48:24, 149:16, 149:17
melted [2] - 190:20, 191:3
melting [1] - 190:9
MEMBER [6] - 7:12, 7:17, 7:21, 7:24, 8:4, 32:4
member [3] - 26:10, 30:3, 165:16
members [3] - 20:10, 65:9, 67:16
Memorial [4] - 84:2, 85:2, 151:3, 185:4
memories [1] - 39:11
men's [1] - 4:22
mention [4] - 6:10, 7:2, 9:6, 21:6
mentioned [6] - 8:11, 8:15, 13:9, 18:9, 19:17, 155:19
mercury [1] - 48:19
mesh [1] - 71:10
message [1] - 41:6
messed [1] - 152:9
met [1] - 75:24
metal [3] - 104:2, 104:4, 105:18
meteorological [1] - 83:10

methane [1] - 149:13
methods [1] - 96:5
Mexico [1] - 10:18
Michael [3] - 22:3, 22:4, 26:4
Mid [2] - 49:2, 49:4
Mid-Atlantic [2] - 49:2, 49:4
middle [4] - 61:5, 188:12, 190:12, 191:12
Middle [1] - 135:7
might [13] - 6:10, 8:9, 19:11, 31:17, 31:18, 40:16, 101:21, 120:17, 144:10, 151:16, 151:24, 153:4, 153:5
migrate [1] - 126:17
migration [1] - 54:17
migratory [3] - 126:13, 126:18, 145:8
mike [5] - 21:2, 39:15, 59:11, 70:19, 119:14
Mike [1] - 158:12
mile [6] - 22:23, 46:6, 63:13, 63:18, 79:13, 178:24
miles [21] - 11:7, 15:9, 15:10, 24:7, 34:15, 34:19, 44:14, 49:11, 59:17, 63:13, 75:21, 99:19, 100:3, 132:6, 154:10, 155:10, 159:20, 179:6, 190:17
million [16] - 25:3, 25:6, 45:8, 45:17, 65:24, 66:2, 66:7, 74:12, 74:18, 80:8, 119:24, 131:13, 131:15, 138:6, 138:7
millions [2] - 81:3, 181:8
Millions [1] - 153:17
mind [3] - 8:7, 52:2, 182:23
minds [2] - 36:23, 175:17
mine [2] - 8:7, 134:24
miner [1] - 135:4
Mineral [3] - 4:4, 5:24, 10:11
MINERALS [1] - 1:5
Minerals [5] - 43:3, 48:8, 56:23, 102:9, 193:23
miners [1] - 135:3
mines [1] - 50:6

minimal [3] - 94:17, 95:11, 96:9
minimally [1] - 95:4
minimum [4] - 16:5, 46:8, 179:6, 187:16
mining [1] - 127:3
Ministry [1] - 84:9
minor [8] - 18:12, 18:20, 43:8, 45:21, 65:15, 66:10, 67:6, 124:18
minute [1] - 6:7
minutes [6] - 9:12, 9:14, 20:8, 22:11, 65:7, 109:20
miracle [2] - 65:10, 67:15
Mirror [1] - 46:21
mirror [1] - 189:7
misleading [1] - 177:23
misrepresentations [1] - 66:16
misrepresented [1] - 124:14
missing [2] - 122:13, 131:2
mission [1] - 44:20
misspelled [1] - 21:20
misstatements [1] - 67:12
mistake [1] - 180:3
misunderstood [1] - 160:23
MIT [2] - 56:16, 146:5
mitigate [3] - 12:5, 47:17, 120:18
mitigated [1] - 157:6
mitigation [10] - 12:12, 18:15, 18:17, 18:22, 122:18, 122:19, 124:19, 125:6, 125:14, 157:6
mix [1] - 166:18
mixed [1] - 15:16
Mixing [1] - 166:19
MMPA [1] - 125:5
MMS [32] - 2:20, 3:14, 6:23, 9:23, 10:2, 10:12, 10:14, 11:14, 14:19, 33:2, 53:16, 59:14, 66:6, 75:6, 75:7, 75:9, 76:6, 77:21, 80:4, 80:24, 93:11, 121:23, 127:4, 141:21, 147:16, 152:16, 153:8, 155:22, 187:19, 188:4,

188:9, 194:9
MMS's [1] - 3:16
mobile [14] - 65:23, 66:3, 71:4, 71:5, 71:22, 72:4, 72:5, 73:5, 73:9, 73:21, 74:2, 74:4, 74:11, 74:17
mobilized [1] - 44:2
model [1] - 147:8
modeling [3] - 42:3, 143:15, 144:15
models [2] - 143:21, 144:4
moderate [5] - 18:13, 18:20, 19:5, 19:13, 43:9
moderator [3] - 7:21, 7:23
modern [1] - 90:7
modest [1] - 189:3
mollusks [2] - 54:7, 55:20
moment [2] - 12:20, 96:23
money [12] - 13:5, 48:17, 57:16, 57:20, 133:23, 138:4, 139:4, 139:10, 144:8, 144:14, 181:6, 183:9
mongering [1] - 54:4
monitor [2] - 12:6, 165:22
monitored [1] - 16:17
monitoring [2] - 12:12, 125:13
monoliths [1] - 112:23
Monomoy [3] - 17:2, 29:23, 100:4
monopile [2] - 17:21, 34:6
monopiles [1] - 15:14
monopoles [1] - 89:11
monopoles [2] - 50:10, 132:4
month [1] - 171:8
monthly [2] - 119:2, 119:3
months [7] - 60:8, 70:24, 127:24, 128:4, 161:5, 176:5, 187:11
moon [2] - 64:3, 64:8
MOORE [89] - 2:2, 7:14, 7:19, 7:22, 8:2, 8:6, 19:22, 25:19, 29:19, 32:3, 32:6, 34:24, 35:4, 35:7,

38:18, 38:20, 39:4,
39:14, 48:3, 51:6,
53:7, 56:6, 59:8,
62:21, 62:23, 63:3,
64:24, 67:21, 67:24,
70:17, 74:15, 74:19,
81:12, 81:14, 83:18,
88:10, 96:14, 98:13,
100:21, 106:22,
109:14, 109:22,
114:2, 116:22,
119:13, 121:4,
123:11, 123:13,
123:21, 133:10,
133:12, 133:15,
135:18, 137:5,
139:14, 142:4,
142:8, 142:11,
142:13, 142:16,
145:14, 145:20,
147:22, 147:24,
150:18, 153:21,
156:6, 158:10,
160:19, 162:22,
165:4, 165:6, 167:7,
167:9, 170:8,
170:13, 170:16,
170:19, 170:21,
170:24, 173:11,
176:8, 176:15,
179:16, 189:11,
189:14, 193:7,
193:15, 194:12

Moore [1] - 2:6
moored [1] - 53:2
moral [2] - 35:16,
108:22
MORIARTY [4] -
170:18, 173:13,
175:16, 176:9
Moriarty [1] - 173:15
morning [1] - 182:24
mortal [1] - 42:9
most [29] - 7:7, 8:10,
11:16, 14:24, 15:8,
45:9, 46:4, 50:22,
57:18, 67:3, 71:21,
79:4, 88:24, 95:12,
100:5, 100:10,
119:15, 137:24,
143:8, 148:22,
149:23, 152:15,
155:12, 165:13,
171:13, 171:14,
173:17, 173:21,
178:12
Most [4] - 18:19,
90:23, 102:17,
165:16
mostly [1] - 156:20

Mostly [1] - 167:13
motion [1] - 175:5
motto [1] - 110:21
mountains [1] - 38:12
mountaintop [1] -
50:5
move [7] - 4:2, 24:4,
39:4, 48:4, 51:6,
70:5, 70:7
moved [2] - 127:16,
190:22
movement [3] - 98:3,
108:6, 188:21
moves [1] - 54:10
moving [7] - 64:21,
97:21, 190:23,
191:14, 192:10,
192:15, 193:10
MR [157] - 2:2, 7:14,
7:19, 7:22, 8:2, 8:6,
10:5, 19:22, 22:14,
25:19, 25:22, 29:19,
29:21, 32:3, 32:6,
34:24, 35:4, 35:7,
35:8, 38:18, 38:20,
38:23, 39:4, 39:6,
39:14, 39:17, 48:3,
48:7, 51:6, 53:7,
56:6, 59:8, 59:12,
61:2, 62:21, 62:22,
62:23, 62:24, 63:3,
63:4, 64:24, 67:21,
67:22, 67:24, 68:2,
70:17, 70:20, 74:15,
74:16, 74:19, 74:21,
78:3, 81:12, 81:13,
81:14, 81:15, 83:18,
83:22, 85:18, 88:10,
88:11, 90:20, 96:14,
96:20, 98:13, 98:15,
100:21, 100:22,
106:22, 106:23,
109:14, 109:22,
110:2, 111:14,
114:2, 114:3,
116:22, 116:23,
119:13, 121:4,
121:5, 123:11,
123:13, 123:20,
123:21, 127:13,
133:10, 133:12,
133:14, 133:15,
133:16, 135:18,
135:19, 137:5,
139:14, 139:15,
142:4, 142:7, 142:8,
142:11, 142:13,
145:14, 145:22,
147:22, 147:24,

150:18, 150:19,
153:21, 153:22,
156:6, 156:8,
158:10, 158:12,
160:18, 160:19,
160:21, 162:21,
162:22, 163:2,
165:4, 165:5, 165:6,
165:8, 167:7, 167:8,
167:9, 167:10,
170:8, 170:10,
170:13, 170:16,
170:18, 170:19,
170:20, 170:21,
170:23, 170:24,
171:3, 173:11,
173:13, 175:16,
176:8, 176:9,
176:15, 176:16,
179:16, 189:11,
189:13, 189:14,
189:19, 193:7,
193:8, 193:15,
194:11, 194:12
MS [28] - 32:17, 35:3,
42:20, 51:5, 51:8,
53:13, 56:7, 56:11,
65:4, 93:6, 96:15,
106:5, 119:11,
119:15, 123:12,
123:23, 130:7,
137:7, 142:10,
142:12, 142:14,
142:17, 145:16,
148:2, 179:19,
182:2, 184:20, 186:8
multiple [1] - 6:3
municipal [2] - 36:4,
36:16
MURPHY [1] - 179:19
Murphy [1] - 179:20
Museum [2] - 75:17,
173:20
must [8] - 8:6, 76:17,
92:19, 110:19,
110:21, 111:4,
111:5, 187:17
myriad [1] - 64:10

N

NA [1] - 126:16
nacelle [2] - 60:16,
76:10
nacelles [1] - 60:13
name [63] - 2:5, 11:11,
21:14, 21:18, 22:14,
26:4, 29:21, 32:16,
32:18, 38:23, 39:6,
42:20, 53:13, 56:11,

59:12, 61:2, 65:4,
70:21, 74:21, 78:14,
80:2, 81:15, 85:18,
88:12, 90:20, 93:6,
96:21, 100:22,
106:6, 106:23,
106:24, 110:2,
111:14, 114:3,
116:23, 119:11,
121:5, 123:24,
127:13, 130:7,
135:19, 137:7,
139:15, 142:17,
143:18, 145:24,
148:2, 150:14,
150:19, 154:5,
156:8, 158:12,
160:21, 165:8,
167:11, 171:5,
173:14, 176:16,
179:19, 182:2,
184:20, 186:9,
189:19
names [1] - 20:8
Nancy [1] - 56:11
Nantucket [186] - 1:13,
1:15, 2:14, 15:7,
22:7, 22:12, 22:16,
22:18, 22:22, 23:3,
24:15, 24:23, 24:24,
29:22, 29:24, 30:3,
30:6, 30:10, 30:17,
31:2, 31:16, 32:19,
32:21, 34:22, 35:11,
36:14, 37:16, 39:2,
39:8, 39:24, 42:17,
42:22, 44:8, 44:22,
47:23, 51:10, 51:11,
51:13, 53:15, 54:14,
54:21, 55:4, 56:12,
56:21, 58:19, 59:13,
61:3, 62:5, 62:8,
62:9, 63:5, 63:8,
65:6, 67:10, 67:23,
68:3, 68:19, 69:18,
71:9, 71:18, 71:21,
72:9, 72:14, 78:23,
79:5, 79:18, 79:24,
80:2, 82:5, 82:11,
82:24, 83:3, 83:5,
83:10, 83:15, 84:2,
84:24, 85:19, 88:13,
90:21, 91:8, 93:7,
93:18, 96:22, 98:18,
100:5, 100:16,
100:23, 101:11,
102:6, 106:8,
106:10, 106:12,
106:18, 107:12,
111:15, 111:18,

113:13, 114:7,
116:18, 117:2,
119:12, 119:19,
120:15, 122:7,
122:10, 124:2,
127:16, 127:19,
130:9, 130:11,
130:18, 131:11,
131:18, 133:18,
134:14, 134:18,
134:21, 135:20,
135:23, 136:3,
136:8, 136:15,
137:18, 137:20,
137:21, 137:23,
139:17, 139:19,
140:9, 140:17,
142:21, 143:5,
144:12, 144:18,
146:2, 146:8, 148:4,
150:12, 150:20,
151:3, 151:11,
151:21, 153:3,
153:12, 155:16,
158:13, 160:6,
160:9, 161:2,
163:10, 163:15,
164:7, 165:12,
165:14, 166:6,
166:14, 166:16,
167:24, 168:3,
169:7, 169:11,
169:13, 171:6,
171:7, 171:9, 172:2,
172:8, 172:17,
173:16, 175:5,
182:3, 182:8,
182:21, 184:22,
185:4, 186:11,
187:8, 188:13,
190:6, 190:8, 190:9,
191:8
Nantucketer [1] -
110:3
Nantucketers [2] -
38:16, 91:5
NASA [1] - 64:13
nation [4] - 35:15,
37:14, 37:20, 47:13
National [4] - 34:4,
153:9, 173:22,
174:20
national [7] - 38:6,
78:24, 107:16,
111:18, 160:7,
174:13, 186:19
nations [2] - 162:5,
181:7
natural [5] - 50:3,
110:18, 134:15,

154:14, 175:20
nature [2] - 39:24, 40:19
navigable [2] - 31:2, 166:16
navigate [2] - 24:3, 58:13
navigating [2] - 60:2, 79:21
Navigation [1] - 177:14
navigation [13] - 27:9, 30:17, 40:16, 46:5, 54:8, 67:5, 67:9, 79:15, 80:19, 112:20, 122:6, 172:14, 176:24
navigational [5] - 26:16, 28:9, 33:19, 54:12, 178:6
near [7] - 31:18, 49:12, 112:17, 132:2, 141:10, 160:3, 160:13
nearby [1] - 115:16
Nearly [1] - 33:23
nearly [3] - 40:2, 71:17, 112:8
necessary [7] - 40:5, 50:8, 54:12, 61:20, 92:18, 152:8, 157:15
necessities [2] - 130:17, 151:10
need [48] - 3:7, 4:15, 4:17, 5:8, 5:15, 5:17, 9:4, 28:23, 28:24, 29:7, 35:2, 36:3, 36:6, 36:20, 36:24, 39:4, 39:14, 47:4, 47:15, 51:6, 62:5, 62:11, 64:15, 70:10, 87:12, 98:3, 103:16, 110:13, 110:14, 118:20, 120:23, 135:8, 136:10, 136:11, 136:13, 145:14, 153:16, 157:5, 157:19, 158:4, 160:7, 170:8, 171:24, 174:15, 177:18, 179:5, 179:11, 187:18
needed [5] - 37:10, 66:14, 115:2, 150:5, 179:22
needless [1] - 62:8
needs [17] - 33:3, 48:11, 64:17, 64:18, 70:9, 77:22, 88:2,

99:5, 113:24, 115:23, 117:6, 126:7, 133:3, 187:10, 187:19, 187:21, 188:9
negative [6] - 22:24, 24:12, 54:18, 91:15, 93:13, 95:8
neglected [2] - 80:16, 132:11
negligence [1] - 81:6
negligent [2] - 78:21, 80:4
negligible [5] - 18:11, 18:20, 43:8, 65:15, 189:3
neighborhoods [1] - 159:23
neighbors [2] - 78:11, 142:23
Neil [1] - 64:2
nesting [1] - 112:7
net [2] - 74:8, 74:12
Network [1] - 124:6
Neumann's [1] - 87:17
never [6] - 71:23, 87:22, 132:16, 146:10, 153:8, 186:23
Nevertheless [1] - 57:9
New [10] - 33:9, 40:24, 50:23, 75:22, 99:16, 107:7, 117:16, 124:23, 153:10, 172:4
new [15] - 33:10, 43:17, 82:6, 82:8, 84:10, 87:19, 95:21, 108:17, 149:16, 149:22, 181:11, 181:19, 186:22, 187:14, 194:5
Newark [1] - 153:10
newspaper [1] - 140:6
next [9] - 31:9, 48:6, 114:15, 123:12, 135:15, 136:18, 149:7, 171:8
Next [16] - 11:2, 11:10, 11:18, 12:7, 12:19, 13:15, 14:5, 15:12, 15:19, 17:4, 18:7, 18:18, 19:15, 158:11, 170:16, 180:10
nice [2] - 25:7, 25:8
Nick [1] - 165:8
night [14] - 2:13, 3:19,

6:15, 9:7, 20:4, 30:13, 44:11, 60:16, 78:17, 95:23, 99:14, 143:13, 168:7, 182:11
NIMBY [2] - 143:5, 150:24
NIMBYism [1] - 53:24
nine [4] - 15:10, 46:11, 115:13, 176:5
no-brainer [1] - 167:20
Nobel [1] - 41:13
nobody [1] - 90:11
noise [8] - 17:16, 17:17, 124:24, 127:6, 128:17, 132:20, 132:21, 133:2
nomination [1] - 75:18
Non [2] - 17:18, 17:21
non [8] - 17:8, 18:6, 53:17, 76:8, 76:20, 91:4, 124:8, 154:2
non-fossil-fuel-generated [1] - 124:8
non-invasive [1] - 76:20
non-operational [1] - 76:8
non-partisan [1] - 53:17
non-profit [1] - 91:4
non-renewable [1] - 154:2
non-routine [2] - 17:8, 18:6
Non-routine [2] - 17:18, 17:21
none [2] - 33:10, 115:20
nor'easter [1] - 94:4
north [1] - 83:13
North [4] - 49:3, 52:21, 125:19, 126:6
northeast [1] - 192:12
northern [1] - 73:5
northwest [2] - 98:24, 192:15
not-in-my-backyard [1] - 119:17
notable [1] - 102:17
note [3] - 20:13, 41:11, 188:15
noted [1] - 79:9
notes [2] - 171:4, 195:9
nothing [2] - 60:21, 176:3

notice [2] - 23:17, 143:14
nourishment [1] - 10:22
Nourishment [1] - 23:19
November [1] - 128:5
nowhere [1] - 83:12
nuclear [1] - 29:10
number [12] - 20:21, 81:12, 86:2, 107:16, 123:11, 142:6, 142:9, 142:11, 166:3, 170:17, 181:2
Number [23] - 20:21, 20:22, 32:15, 35:5, 35:7, 38:20, 45:6, 45:15, 48:4, 48:6, 53:8, 59:9, 64:24, 70:17, 98:13, 98:14, 109:22, 109:23, 121:4, 160:18
numbering [1] - 125:22
numbers [4] - 20:14, 32:11, 140:20
nursery [2] - 82:15, 169:22
nutrients [1] - 82:13
Nysted [10] - 49:15, 54:15, 55:3, 55:9, 59:14, 59:17, 59:23, 60:4, 60:5, 60:11

O

oared [1] - 52:23
objection [2] - 119:18, 120:22
objections [1] - 40:15
objective [1] - 40:18
obligations [1] - 149:6
observations [1] - 81:19
observed [3] - 42:2, 89:18, 98:19
obtaining [1] - 164:22
obvious [4] - 61:11, 61:19, 153:11, 161:17
Obviously [1] - 174:23
obviously [4] - 137:14, 157:8, 158:8, 182:14
occur [5] - 19:4, 122:10, 124:22, 140:20, 168:17
occurs [2] - 124:21, 166:18

ocean [8] - 11:9, 68:18, 69:22, 91:6, 93:21, 94:15, 104:14
Oceanographic [1] - 44:24
OCS [1] - 127:4
odd [1] - 20:13
OER [1] - 149:8
OF [1] - 1:4
off-island [3] - 43:23, 44:3, 53:21
offer [5] - 33:16, 71:14, 101:2, 103:11, 103:21
offered [1] - 31:13
offers [3] - 51:19, 91:7, 124:18
officer [2] - 76:5, 88:14
officers [1] - 159:2
official [2] - 26:7, 27:18
officials [6] - 9:11, 20:7, 21:22, 32:9, 43:12, 83:20
offset [1] - 183:12
offshore [30] - 10:17, 10:22, 11:6, 33:24, 34:16, 48:23, 49:5, 49:14, 51:24, 59:15, 72:16, 82:16, 82:18, 90:15, 99:19, 118:6, 121:15, 121:24, 125:24, 126:18, 129:10, 130:5, 131:16, 151:15, 180:5, 180:7, 186:17, 186:24, 187:3, 188:3
Offshore [1] - 10:11
often [6] - 96:16, 166:19, 168:8, 168:9, 169:22, 186:4
oil [36] - 10:17, 17:18, 50:2, 50:7, 50:9, 51:21, 58:6, 58:8, 58:10, 97:12, 97:15, 101:5, 101:7, 101:8, 101:18, 101:20, 101:23, 102:2, 104:14, 105:9, 105:22, 127:3, 129:12, 134:22, 136:10, 140:24, 152:16, 159:8, 161:13, 161:24, 175:23, 180:13, 180:19, 180:20, 181:17

oiled [1] - 82:12
okayed [1] - 80:12
old [5] - 39:11, 80:13, 96:13, 146:15, 183:23
omega [1] - 25:15
Omega [1] - 25:23
on-line [1] - 14:9
once [8] - 37:17, 38:16, 50:13, 58:5, 96:16, 113:2, 186:5, 191:21
one [65] - 3:5, 3:19, 5:23, 6:4, 8:22, 9:6, 9:8, 11:16, 14:23, 17:18, 20:15, 21:6, 21:16, 22:5, 22:6, 35:12, 38:3, 45:8, 46:6, 46:19, 50:11, 50:16, 53:2, 56:22, 56:23, 58:4, 60:7, 63:13, 66:18, 68:4, 78:15, 79:3, 83:10, 83:19, 87:8, 87:10, 96:11, 97:10, 101:13, 101:14, 101:21, 105:9, 110:13, 110:17, 118:23, 120:13, 130:5, 135:15, 137:13, 152:13, 159:2, 162:11, 165:19, 172:4, 173:20, 177:11, 178:24, 179:6, 180:2, 181:2, 187:6, 191:19, 192:20
One [10] - 3:20, 4:19, 5:13, 30:21, 86:8, 119:15, 125:20, 130:15, 143:2, 193:17
one-sixth [1] - 191:19
one-way-street [1] - 110:17
ongoing [1] - 43:13
open [11] - 14:22, 50:11, 66:2, 71:14, 73:21, 74:2, 74:11, 93:21, 138:13, 153:15, 154:10
operate [2] - 30:8, 104:15
operated [1] - 139:21
operates [2] - 104:16, 105:2
operating [3] - 34:10, 187:4, 187:24
operation [12] - 13:19,

17:14, 17:19, 19:5, 19:12, 31:4, 60:8, 85:7, 102:5, 125:15, 125:21, 126:5
operational [4] - 59:20, 60:18, 76:8, 128:23
operations [4] - 13:12, 19:12, 84:24, 88:13
operator [2] - 13:5, 115:12
operators [2] - 60:14, 177:4
opinings [1] - 161:18
opinion [8] - 60:20, 86:24, 91:24, 94:24, 121:10, 145:5, 157:3, 174:4
opinions [4] - 10:9, 30:2, 143:2, 156:16
opponents [6] - 39:23, 40:15, 44:3, 78:6, 141:6, 141:7
opportunity [13] - 20:11, 36:3, 43:5, 51:9, 61:12, 81:17, 91:22, 97:23, 98:7, 141:15, 156:9, 165:9, 185:3
oppose [4] - 31:21, 52:7, 134:9, 158:20
opposed [8] - 16:14, 26:14, 26:18, 106:11, 107:22, 114:6, 178:19, 178:22
opposing [1] - 84:5
opposite [1] - 55:16
opposition [6] - 12:23, 26:12, 43:24, 58:16, 119:16, 174:5
optimum [1] - 55:18
option [2] - 152:8, 185:15
Options [1] - 23:6
orange [1] - 17:2
order [3] - 15:20, 17:5, 181:20
ordered [1] - 49:18
organization [5] - 35:23, 91:4, 99:7, 148:7, 165:16
organizations [2] - 38:4, 178:22
oriented [1] - 146:13
originates [1] - 128:13
Otis [1] - 185:19
ourselves [5] - 47:19, 55:6, 108:19,

136:14, 183:15
output [1] - 115:5
outside [4] - 9:4, 81:24, 151:20, 153:10
outwash [2] - 190:13, 192:16
outweigh [2] - 92:2, 183:5
outweighs [1] - 96:8
overall [3] - 10:3, 92:6, 118:15
overdue [1] - 91:17
overheard [1] - 146:16
oversee [1] - 95:6
overseeing [1] - 92:5
overwhelming [2] - 41:16, 155:20
owes [1] - 169:5
own [6] - 7:9, 47:19, 56:4, 56:8, 157:3, 174:24
owned [2] - 90:22, 185:18
owner/operator [1] - 176:17

P

P-a-w-a [1] - 106:24
p.m [2] - 1:12, 194:14
Pachauri [1] - 41:11
package [2] - 105:7, 105:11
Page [2] - 177:15, 180:2
paggers [1] - 8:14
Pages [1] - 1:1
paid [1] - 135:5
panacea [1] - 29:10
Panel [1] - 41:12
panels [2] - 42:11, 42:14
paper [1] - 11:23
Paragraph [2] - 177:16, 180:3
paraphrase [1] - 146:18
Pardon [1] - 189:14
park [10] - 19:13, 59:15, 59:17, 59:20, 60:3, 60:16, 111:18, 111:19, 115:12, 177:18
Park [1] - 153:10
PARKER [1] - 65:4
Parker [1] - 65:5
parks [6] - 49:14, 49:17, 60:20,

114:16, 187:2, 187:3
part [11] - 2:24, 18:3, 38:17, 41:6, 73:19, 107:9, 107:15, 135:8, 139:18, 184:24, 190:13
part-time [1] - 107:9
participate [2] - 43:5, 137:24
participating [1] - 109:8
particular [8] - 11:17, 12:3, 35:23, 57:17, 157:13, 157:16, 158:7, 183:10
particularly [7] - 31:5, 58:8, 65:8, 86:24, 89:7, 124:11, 126:6
partisan [1] - 53:17
Partnership [2] - 65:23, 178:21
parts [3] - 14:24, 41:19, 163:5
pass [3] - 5:2, 59:19, 111:12
passenger [1] - 30:9
passengers [1] - 80:8
past [5] - 5:4, 47:8, 55:6, 184:2, 187:2
Pat [2] - 21:7, 109:17
pathogens [1] - 82:4
paths [1] - 168:4
Patricia [2] - 195:5, 195:15
patronize [1] - 139:8
pattern [1] - 35:16
Paul [1] - 189:6
Paul's [1] - 35:10
PAWA [1] - 106:23
Pawa [1] - 106:23
pay [6] - 97:17, 97:18, 140:13, 147:16, 182:12, 189:6
pea [1] - 86:13
Peace [1] - 41:14
peace [1] - 182:23
peak [1] - 49:22
pearl [1] - 175:3
peering [1] - 39:12
Peninsula [1] - 115:9
penny [1] - 50:20
People [3] - 89:20, 174:10, 182:19
people [62] - 4:5, 4:14, 6:14, 9:13, 13:18, 13:21, 15:3, 20:12, 20:20, 22:17, 24:11, 25:7, 26:2, 28:7, 28:13, 30:12, 35:22,

36:13, 36:15, 36:20, 37:7, 37:13, 37:14, 37:15, 56:3, 56:4, 61:22, 65:8, 68:16, 70:4, 70:8, 77:18, 77:20, 78:24, 79:17, 86:20, 90:10, 113:3, 113:14, 113:15, 113:22, 122:21, 122:24, 137:17, 138:16, 139:5, 139:6, 150:22, 153:13, 153:17, 156:23, 158:18, 158:22, 160:13, 161:19, 165:20, 174:16, 180:14, 182:21, 183:3, 183:7
pepper [1] - 94:21
per [11] - 24:7, 25:3, 44:23, 59:19, 114:19, 115:14, 117:17, 117:21, 118:10, 131:16, 164:10
perceives [1] - 149:8
percent [15] - 13:10, 23:22, 33:24, 63:21, 69:13, 69:15, 72:13, 114:18, 115:10, 115:22, 140:8, 149:7, 149:19, 180:18, 180:19
percentage [2] - 69:5, 148:20
percentages [1] - 69:12
perched [1] - 44:14
percolate [1] - 83:6
perfect [2] - 55:19, 164:8
perfection [1] - 175:5
performance [1] - 92:14
Perhaps [3] - 94:16, 95:10, 96:9
perhaps [3] - 95:17, 96:16, 136:6
period [6] - 14:22, 76:23, 76:24, 107:16, 115:11, 144:20
periodic [1] - 13:20
periodically [1] - 21:3
periods [1] - 19:17
perjury [2] - 99:9, 110:7
permanent [3] - 35:20, 37:24, 103:11

permanently [1] - 104:18
permit [3] - 70:15, 116:12, 135:13
permits [2] - 71:7, 125:4
permitted [1] - 104:15
permitting [5] - 43:6, 96:7, 102:8, 103:8, 123:4
perseverance [1] - 156:18
persist [1] - 159:13
person [2] - 27:17
personal [6] - 35:20, 40:19, 47:19, 148:6, 157:2, 188:14
personally [2] - 40:6, 60:20
Pete [2] - 63:2, 167:12
Peter [1] - 189:6
PETERSON [1] - 83:22
Peterson [2] - 22:7, 185:4
petty [1] - 64:9
Ph.D [3] - 70:21, 85:21, 127:20
Phase [4] - 16:15, 16:16, 16:20, 16:21
phase [2] - 16:22, 17:14
phased [1] - 16:15
phases [1] - 19:2
Phillip [1] - 67:22
phone [2] - 72:6, 146:16
phones [2] - 8:5, 8:13
phonetic [1] - 139:16
phony [1] - 99:8
Photos [1] - 52:17
pick [1] - 55:9
picked [3] - 68:15, 68:19, 166:8
PICKWICK [2] - 53:13, 56:7
Pickwick [1] - 53:14
picture [2] - 145:17, 184:11
piece [2] - 183:10, 188:23
pieces [1] - 131:2
Pilgrims [1] - 100:13
piling [2] - 191:18, 193:3
pilings [3] - 192:24, 193:6, 193:9
pilot [2] - 34:12, 167:14

pipeline [1] - 149:5
pipng [1] - 45:21
place [27] - 6:17, 53:24, 55:19, 55:22, 58:18, 62:9, 68:15, 68:19, 76:20, 79:6, 87:9, 91:8, 100:11, 111:17, 113:16, 129:11, 129:20, 134:15, 136:3, 150:24, 152:19, 152:21, 152:22, 157:19, 168:8, 169:22, 172:8
placed [2] - 46:10, 131:17
placement [3] - 119:23, 125:8, 125:17
Placement [1] - 31:6
places [4] - 119:22, 131:6, 138:2, 159:7
plains [1] - 54:9
plan [6] - 13:13, 13:18, 54:11, 116:2, 122:19, 188:9
planes [2] - 58:12, 139:21
planet [5] - 47:16, 133:19, 134:3, 137:2, 158:5
planks [1] - 39:13
plankton [1] - 82:14
planned [2] - 6:16, 173:5
Planned [1] - 116:7
planning [1] - 64:5
plant [21] - 36:4, 36:16, 52:14, 58:11, 58:23, 61:11, 67:7, 79:14, 99:16, 115:16, 128:24, 131:16, 139:24, 151:4, 186:17, 186:18, 186:19, 187:7, 187:10, 187:21, 187:24
plants [5] - 29:10, 33:12, 126:21, 149:14
plate [1] - 36:21
platform [3] - 75:4, 76:9, 129:11
platforms [2] - 129:13, 129:19
play [1] - 165:20
pleased [1] - 43:7
pleasure [5] - 46:12, 108:5, 172:5,

172:18, 177:3
plethora [1] - 115:17
plovers [1] - 45:21
plume [1] - 139:24
plummet [1] - 140:16
Plymouth [1] - 191:11
point [16] - 12:21, 21:10, 25:14, 35:17, 39:21, 47:5, 58:16, 63:15, 77:6, 89:24, 102:23, 128:22, 137:14, 163:6, 169:16, 184:6
Point [6] - 90:23, 91:7, 91:10, 91:16, 128:8, 139:23
pointed [1] - 172:12
points [4] - 30:19, 52:9, 53:23, 122:18
poison [1] - 48:20
policy [6] - 38:6, 74:5, 135:6, 146:13, 146:22, 147:17
Policy [2] - 11:3, 56:18
policy-oriented [1] - 146:13
political [4] - 28:21, 40:10, 40:19, 88:4
politics [1] - 110:5
pollutants [1] - 82:5
polluted [1] - 141:13
polluting [1] - 103:16
pollution [7] - 64:19, 91:20, 127:5, 140:3, 141:3, 162:4, 162:9
pollution-free [1] - 162:9
Pond [1] - 93:17
pond [2] - 93:21, 93:24
poor [1] - 146:23
Pope [2] - 42:5, 42:14
popular [1] - 66:17
popularity [1] - 154:16
population [4] - 45:24, 47:14, 51:17, 159:24
populations [1] - 45:14
port [1] - 153:11
Portfolio [1] - 148:17
portions [1] - 62:7
portrayed [1] - 67:15
pose [4] - 33:18, 40:16, 105:12, 172:13
posed [2] - 57:10, 57:11
poses [2] - 31:23, 33:11

position [5] - 22:19, 26:7, 84:4, 108:19, 158:18
positioned [1] - 46:6
positive [2] - 22:21, 108:9
possibility [3] - 24:19, 149:9, 188:5
possible [11] - 3:18, 8:19, 9:3, 38:7, 53:5, 53:12, 73:13, 109:11, 118:23, 162:17, 162:18
possibly [7] - 4:3, 9:20, 17:10, 157:19, 170:4, 172:21, 185:18
post [2] - 47:9, 187:19
postcard [2] - 135:24
posted [3] - 98:22, 99:2, 99:4
potential [16] - 12:23, 30:17, 31:9, 33:8, 33:17, 33:22, 33:24, 48:24, 58:6, 91:23, 92:16, 101:21, 122:9, 124:9, 126:11, 132:19
potentially [3] - 104:17, 105:2, 149:7
power [53] - 24:15, 27:16, 27:17, 28:15, 29:10, 31:6, 36:3, 36:5, 36:14, 36:18, 37:18, 37:19, 47:3, 48:13, 49:7, 49:20, 49:23, 52:8, 52:9, 52:14, 53:5, 58:11, 58:23, 92:22, 95:22, 99:11, 99:17, 99:23, 101:12, 101:19, 101:22, 103:16, 103:19, 103:22, 104:6, 105:10, 111:16, 112:21, 114:24, 115:19, 117:5, 117:10, 128:23, 130:11, 131:16, 148:20, 150:13, 159:6, 159:24, 160:8, 163:6, 187:9
Power [7] - 35:13, 65:9, 67:16, 78:12, 107:2, 108:11, 108:24
powerboat [2] - 137:16, 139:19
practical [1] - 105:20
practically [1] - 34:8

practice [1] - 110:17
predators [1] - 128:11
predatory [1] - 140:13
predominant [1] - 69:9
prefer [1] - 130:13
premature [1] - 130:23
prematurely [1] - 80:20
preparation [1] - 78:20
prepare [1] - 171:3
prepared [3] - 116:17, 137:12, 188:4
preparing [1] - 53:16
presence [1] - 46:14
present [4] - 8:17, 74:9, 74:13, 81:3
presentation [1] - 27:10
presented [4] - 67:2, 117:8, 122:20, 155:12
presents [2] - 79:14, 91:22
preservation [1] - 185:7
Preservation [1] - 124:3
preserve [1] - 79:2
preserved [1] - 153:19
preserving [1] - 111:20
president [1] - 116:24
pressure [1] - 88:4
prestige [1] - 37:18
presumed [3] - 44:4, 66:12, 80:15
pretty [9] - 2:16, 24:4, 27:2, 69:17, 127:21, 137:11, 156:12, 161:3, 164:10
Previous [1] - 125:24
price [4] - 36:19, 48:13, 58:3, 117:22
prices [1] - 92:22
pride [3] - 162:12, 162:15, 182:19
priest [1] - 35:10
primarily [3] - 5:21, 84:8, 126:3
primary [1] - 165:19
pristine [10] - 39:24, 88:19, 106:17, 113:17, 119:24, 120:20, 153:19, 174:12, 185:7, 188:23
private [8] - 2:6,

50:18, 56:4, 57:16, 57:18, 92:12, 102:16, 186:14
privilege [2] - 107:9, 108:5
privileged [1] - 41:3
privileges [1] - 102:22
Prize [1] - 41:14
pro [2] - 111:16, 136:23
probability [1] - 132:13
problem [15] - 23:9, 23:23, 53:3, 60:14, 61:18, 62:4, 83:2, 92:11, 111:2, 111:3, 151:6, 153:5, 153:6, 169:23
problems [18] - 36:21, 36:22, 50:16, 59:20, 60:2, 60:6, 60:11, 60:18, 64:14, 81:23, 111:22, 130:16, 151:12, 152:24, 157:12, 162:4, 187:2, 187:4
Problems [1] - 104:21
proceed [2] - 70:15, 159:15
proceedings [2] - 108:13, 108:14
process [25] - 3:2, 3:11, 4:11, 10:3, 11:19, 11:20, 11:21, 12:22, 14:21, 26:2, 43:6, 57:4, 64:5, 102:8, 103:9, 104:7, 105:20, 108:2, 109:7, 109:9, 122:12, 122:21, 123:4, 157:7, 180:22
produce [9] - 49:7, 49:22, 69:15, 76:11, 99:23, 109:9, 143:22, 144:5, 144:15
produced [3] - 143:18, 147:6, 147:12
produces [1] - 82:14
producing [5] - 17:6, 17:7, 60:23, 95:21, 117:14
product [3] - 76:3, 105:14, 109:9
production [5] - 28:24, 49:24, 50:19, 131:7, 158:20
productive [1] - 169:21

Professional [1] - 195:6
professional [1] - 176:22
profit [4] - 91:4, 102:5, 102:15, 102:17
profits [1] - 92:21
program [6] - 10:17, 11:13, 129:7, 147:10, 150:5, 150:6
programs [2] - 16:9, 33:5
Programs [1] - 11:14
prohibit [1] - 85:5
PROJECT [1] - 1:6
Project [22] - 2:22, 11:15, 14:12, 14:15, 23:19, 25:11, 26:8, 48:9, 50:17, 56:21, 59:3, 101:2, 103:2, 115:21, 124:10, 135:10, 154:8, 154:22, 173:5, 186:13, 186:16, 186:21
project [132] - 3:15, 12:23, 13:3, 13:12, 13:19, 13:22, 15:6, 15:7, 26:12, 26:14, 27:3, 27:8, 27:21, 28:2, 28:19, 29:15, 30:23, 34:17, 34:21, 35:19, 38:5, 40:7, 42:24, 43:7, 43:13, 44:2, 44:9, 46:22, 47:2, 47:11, 47:21, 48:11, 50:8, 50:18, 50:24, 52:6, 55:17, 56:24, 57:11, 57:22, 57:24, 58:17, 58:20, 59:3, 63:20, 64:6, 64:20, 65:10, 65:21, 66:22, 67:15, 68:2, 68:7, 68:11, 69:10, 70:7, 74:10, 80:12, 80:15, 81:20, 81:22, 88:20, 91:14, 92:5, 95:8, 95:17, 96:8, 100:18, 101:8, 102:13, 102:22, 103:5, 103:6, 103:14, 105:24, 106:3, 109:2, 109:5, 109:11, 114:10, 115:24, 116:14, 117:15, 118:6, 118:18, 118:21, 118:22, 127:22, 128:20, 129:10, 130:16, 131:21,

132:22, 134:17, 135:14, 136:21, 136:23, 136:24, 137:2, 137:11, 138:11, 140:15, 140:21, 140:23, 141:2, 141:20, 141:24, 144:2, 144:7, 144:18, 150:9, 150:14, 154:11, 154:19, 154:23, 155:2, 155:3, 156:21, 157:4, 157:9, 157:11, 158:20, 167:3, 167:23, 172:4, 172:9, 183:9, 185:11, 188:7, 188:8, 188:12, 189:8
project's [1] - 101:5
projected [2] - 19:19, 149:20
projects [16] - 11:5, 12:3, 13:17, 17:13, 34:14, 43:21, 52:4, 82:2, 110:8, 127:10, 149:3, 149:4, 150:2, 150:11, 176:3, 188:4
promulgated [2] - 53:20, 54:19
propeller [1] - 104:6
proper [4] - 92:14, 92:15, 95:10
properties [1] - 122:13
property [6] - 55:14, 60:5, 71:13, 90:22, 113:19, 155:5
proponent [1] - 38:4
proponents [1] - 144:7
proposal [1] - 99:18
propose [1] - 159:14
proposed [35] - 3:3, 3:15, 15:21, 16:12, 26:13, 30:16, 34:6, 54:11, 66:22, 91:9, 91:14, 91:21, 92:24, 105:23, 106:13, 114:10, 117:15, 119:17, 120:9, 120:12, 120:17, 125:7, 125:8, 125:17, 126:14, 126:15, 126:20, 126:22, 127:10, 154:7, 154:11, 154:18, 167:23, 185:24, 186:13
pros [1] - 176:19
Protect [4] - 65:6,

117:2, 124:2, 148:4
protect [11] - 47:21, 54:20, 70:5, 93:3, 141:11, 158:5, 163:18, 174:24, 185:9, 188:10, 188:11
protected [2] - 125:9, 174:21
Protection [2] - 124:12, 125:4
protection [3] - 13:24, 47:3, 106:17
proud [5] - 38:17, 62:13, 65:5, 114:5, 148:3
proudly [1] - 59:5
prove [1] - 76:13
proven [1] - 49:13
provide [4] - 3:14, 57:2, 70:14, 189:3
provided [2] - 115:23, 116:4
providers [4] - 57:20, 69:4, 69:11, 148:18
provides [1] - 99:16
providing [2] - 51:20, 175:6
Provincetown [1] - 100:14
provisions [2] - 13:2, 187:16
proximity [4] - 19:7, 122:2, 125:18, 159:24
prudent [2] - 93:21, 161:17
prudently [1] - 141:22
Public [4] - 1:10, 19:18, 56:17, 94:18
public [35] - 2:24, 7:3, 11:20, 11:22, 14:23, 20:11, 21:22, 32:8, 34:23, 44:4, 62:16, 86:8, 86:12, 92:13, 92:20, 93:4, 93:13, 102:5, 102:12, 102:14, 103:11, 103:12, 104:16, 121:22, 121:24, 122:20, 123:8, 129:9, 130:24, 171:15, 173:3, 173:6, 185:9, 186:15, 188:10
public's [1] - 43:14
publicly [2] - 20:7, 129:9
pull [1] - 193:9

pulls [1] - 193:6
pump [1] - 101:15
purchase [3] - 36:5, 36:9, 48:14
purchased [1] - 115:15
purportedly [1] - 53:22
purpose [2] - 11:19, 105:13
purposes [1] - 130:21
pursue [2] - 124:8, 150:10
pursuit [2] - 107:20, 169:15
pushed [1] - 175:24
put [28] - 6:6, 9:14, 15:4, 17:11, 17:17, 23:17, 32:7, 42:13, 58:17, 64:2, 68:5, 68:9, 68:17, 68:22, 70:12, 80:16, 84:10, 99:11, 106:2, 111:24, 118:7, 129:10, 141:23, 144:15, 153:9, 164:4, 172:22, 191:17
putting [4] - 16:4, 70:11, 76:13, 165:21
pylons [2] - 55:19, 55:21

Q

qualified [2] - 92:6, 158:22
quality [3] - 51:17, 154:14, 182:22
Quebec [2] - 99:16, 115:9
questionable [1] - 118:12
questions [9] - 27:5, 27:6, 57:5, 57:8, 148:23, 159:11, 164:19, 165:24
quick [2] - 10:13, 177:11
quickly [6] - 4:2, 5:9, 20:24, 123:14, 143:11, 188:15
Quidnet [1] - 93:18
quiet [2] - 49:16, 52:24
quietly [1] - 60:22
quite [4] - 10:17, 23:21, 27:13, 130:13
quo [1] - 105:22

<p>quote [9] - 53:23, 96:12, 96:13, 177:13, 177:16, 177:22, 178:23, 179:2, 186:3</p>	<p>142:14, 142:17, 145:16 Ray [2] - 74:21, 142:17 reached [1] - 177:7 reaching [1] - 149:7 read [10] - 8:6, 22:8, 41:6, 98:21, 98:24, 173:24, 177:11, 180:4, 182:11, 187:3 reading [1] - 134:7 ready [4] - 59:11, 65:3, 137:6, 181:9 real [9] - 3:19, 22:21, 28:10, 46:13, 58:5, 58:23, 81:7, 130:16 Real [1] - 140:16 realities [1] - 42:2 reality [2] - 136:21, 148:24 realization [1] - 131:21 realize [4] - 96:7, 143:8, 144:6, 144:22 realizing [1] - 132:13 really [33] - 3:20, 3:22, 3:23, 22:20, 27:4, 27:9, 61:6, 86:5, 86:15, 87:12, 88:2, 89:6, 112:23, 135:12, 138:12, 142:22, 142:24, 143:2, 143:24, 144:3, 145:10, 158:2, 163:5, 164:21, 178:16, 182:4, 183:10, 183:14, 184:5, 184:9, 184:10, 184:15, 184:18 reason [5] - 5:9, 83:4, 134:8, 153:23, 174:24 reasonable [1] - 12:5 reasoning [1] - 124:17 reasons [2] - 108:24, 153:11 receded [1] - 190:21 receding [1] - 190:24 receive [1] - 149:21 received [1] - 177:19 receiving [1] - 11:21 recent [3] - 65:21, 118:7, 148:23 recently [2] - 57:21, 66:12 recognize [1] - 2:11 recognized [2] - 72:22, 101:20 recommendation [1] -</p>	<p>70:14 recommends [1] - 154:12 Record [1] - 19:20 record [2] - 21:9, 195:8 records [1] - 89:19 recover [4] - 18:12, 18:14, 18:16, 153:4 recovered [1] - 60:7 recreation [1] - 154:13 recreational [6] - 50:12, 54:6, 55:24, 140:19, 151:9, 154:16 red [6] - 9:17, 16:12, 79:5, 135:24, 140:6, 156:11 redirected [1] - 136:24 reduce [7] - 91:19, 91:20, 95:13, 101:23, 140:23, 141:2 reducing [1] - 110:15 Reducing [1] - 30:24 reduction [1] - 166:15 reductions [1] - 43:18 reef [1] - 77:11 reefs [1] - 166:11 referenced [1] - 144:24 references [1] - 39:23 referred [1] - 94:22 refinement [1] - 105:15 reflect [3] - 162:16, 162:17, 170:3 Refrain [1] - 8:21 regarding [4] - 32:23, 52:5, 110:11, 115:21 Regarding [1] - 46:9 regardless [1] - 73:20 regattas [1] - 19:10 region [2] - 35:22, 45:11 region's [1] - 48:10 regional [3] - 101:23, 117:15, 117:18 Registered [1] - 195:5 regulating [1] - 11:4 regulation [2] - 104:7, 146:24 regulations [4] - 56:17, 77:23, 121:15, 121:21 Regulatory [1] - 56:18 reiterate [1] - 61:20 reiterated [1] - 61:21 reject [1] - 150:14</p>	<p>related [2] - 45:5, 106:16 relationship [1] - 76:19 relative [1] - 177:12 relatively [2] - 58:8, 103:23 release [1] - 80:21 released [3] - 41:22, 121:14, 123:7 relevance [1] - 102:18 relevant [2] - 16:8, 74:5 relief [1] - 64:18 relies [2] - 34:18, 186:21 relocated [2] - 88:20, 159:17 rely [1] - 168:9 remain [1] - 179:12 remained [3] - 73:21, 74:11, 93:24 remaining [3] - 64:13, 155:6, 180:11 remains [1] - 66:2 remarks [1] - 9:2 remember [4] - 56:19, 168:13, 173:17, 184:3 Remember [1] - 12:16 reminded [1] - 37:4 remote [1] - 104:17 removal [1] - 50:5 remove [2] - 118:20, 118:22 removed [4] - 13:7, 38:10, 38:11, 187:10 removes [1] - 104:18 rendered [1] - 140:11 Renewable [2] - 34:4, 148:16 renewable [18] - 26:23, 28:23, 43:17, 43:21, 64:16, 69:6, 69:7, 69:9, 91:18, 97:24, 136:12, 148:20, 149:12, 150:10, 154:2, 161:11, 180:12, 183:24 renewal [1] - 88:22 renewed [1] - 157:14 renowned [1] - 131:10 rent [1] - 54:5 rentals [1] - 13:2 repairs [3] - 187:12, 187:13, 187:17 repeat [3] - 30:18, 99:6, 186:3</p>	<p>repeatedly [1] - 52:10 replace [2] - 29:9, 163:14 replacement [1] - 92:17 report [32] - 30:24, 41:22, 42:4, 43:5, 43:10, 45:20, 53:9, 59:17, 66:18, 66:21, 67:2, 71:20, 80:16, 87:4, 93:10, 93:11, 95:2, 121:12, 121:14, 131:20, 132:11, 132:23, 143:12, 143:15, 148:22, 148:23, 149:3, 149:11, 151:13, 154:24, 155:12, 177:16 reported [2] - 55:14, 114:20 Reporter [1] - 195:6 reporter [1] - 21:7 reports [6] - 50:15, 60:10, 86:21, 95:5, 154:20, 171:20 represent [5] - 9:12, 97:4, 107:2, 108:11, 116:13 representations [1] - 65:18 Representative [2] - 84:13, 85:14 representative [1] - 171:19 representatives [1] - 27:11 represented [3] - 107:16, 107:20, 178:17 representing [3] - 150:21, 158:23, 178:21 represents [1] - 72:13 request [3] - 32:24, 116:11, 155:22 requested [1] - 67:7 require [6] - 13:4, 13:17, 13:24, 50:2, 105:11, 188:9 required [5] - 30:22, 69:16, 103:8, 122:11, 186:15 requirements [2] - 46:9, 92:17 requires [7] - 9:9, 94:16, 95:10, 96:9, 104:7, 121:11, 148:18</p>
R				
<p>R.C [1] - 85:18 Race [1] - 137:23 race [2] - 138:15, 138:22 races [1] - 19:11 Rachel [1] - 182:3 radar [26] - 31:12, 54:17, 67:7, 80:6, 80:18, 80:20, 81:2, 81:6, 84:8, 84:12, 84:18, 84:23, 85:10, 85:12, 94:22, 140:11, 163:9, 166:8, 168:9, 169:2, 177:13, 177:19, 177:21, 177:24, 178:3, 185:5 radars [1] - 166:5 radio [1] - 140:7 radioactive [1] - 50:6 Rahendra [1] - 41:11 rainy [1] - 79:21 raise [2] - 57:23, 144:14 Raise [1] - 7:5 raised [2] - 40:15, 139:4 raises [1] - 148:23 raising [1] - 21:17 ran [1] - 18:5 randomly [1] - 60:13 Randy [1] - 59:12 range [1] - 126:13 rank [1] - 120:13 RANNEY [1] - 29:21 Ranney [2] - 22:5, 29:22 rapidly [1] - 34:21 rare [1] - 188:23 Rare [1] - 112:6 rate [2] - 44:23, 109:9 ratepayers [2] - 48:17, 147:19 rates [2] - 57:23, 114:20 Rather [1] - 158:16 rather [4] - 110:4, 150:2, 161:19, 168:8 ratio [2] - 118:14, 118:17 RAY [4] - 142:10,</p>				

requiring [2] - 47:10, 125:4
rescue [8] - 44:20, 85:5, 85:6, 86:16, 86:19, 113:2, 140:22, 168:18
rescues [1] - 80:7
research [4] - 4:7, 46:22, 146:4, 157:3
Reservations [1] - 91:3
resident [23] - 29:22, 32:18, 38:24, 39:7, 53:14, 59:13, 67:23, 85:19, 90:21, 100:23, 111:16, 119:12, 130:9, 133:17, 137:10, 146:2, 158:13, 161:2, 163:3, 173:15, 182:3, 184:21, 186:11
residents [7] - 22:12, 36:8, 111:7, 130:18, 140:3, 147:3, 147:11
resolution [1] - 156:19
resolve [1] - 156:20
resolved [2] - 85:12, 157:12
resonance [1] - 108:7
resort [1] - 27:20
resource [23] - 18:10, 18:12, 18:16, 48:22, 68:20, 69:6, 69:7, 69:9, 102:6, 102:12, 102:18, 102:24, 103:11, 103:12, 103:15, 104:16, 104:19, 104:24, 105:15, 154:2, 159:16, 160:5, 160:11
resources [13] - 10:22, 29:12, 42:7, 47:15, 102:15, 110:18, 152:15, 154:9, 154:15, 161:11, 171:24, 175:18, 185:21
Resources [1] - 148:21
Respect [1] - 7:24
respect [2] - 8:2, 142:24
respected [1] - 50:22
respectful [1] - 8:14
respectfully [1] - 155:22
respects [1] - 121:11

respond [1] - 122:21
responded [2] - 123:8, 177:8
responding [1] - 177:9
response [1] - 13:13
responsibility [1] - 47:15
responsible [5] - 10:21, 10:23, 78:20, 99:6, 99:7
rest [1] - 109:18
restaurants [1] - 139:8
restricted [1] - 90:12
restrictions [1] - 84:10
restrooms [5] - 4:15, 4:18, 4:19, 4:22, 109:17
restructure [1] - 147:17
result [6] - 73:8, 94:7, 94:9, 94:11, 104:23, 114:23
results [7] - 63:21, 67:2, 74:8, 114:14, 115:19, 144:5, 155:11
retail [1] - 148:18
retired [1] - 88:14
return [5] - 13:2, 169:9, 169:11, 169:24, 176:10
Rev [1] - 54:16
revenue [1] - 13:9
revenue-sharing [1] - 13:9
Reverend [2] - 35:9, 37:3
reverse [1] - 141:16
reversed [6] - 67:4, 155:13, 155:18, 155:21, 180:4, 180:9
review [8] - 50:15, 63:21, 64:5, 102:8, 102:23, 109:7, 121:19, 141:22
reviewed [2] - 123:8, 167:4
reviewing [3] - 23:4, 127:9, 144:2
reviews [1] - 66:20
Revised [1] - 177:14
Revolution [1] - 100:17
revolution [1] - 38:16
RFP [1] - 23:7
rhetoric [1] - 68:23
Rhode [2] - 70:22, 124:22

rich [2] - 125:9, 153:13
ridiculous [1] - 63:11
rig [4] - 104:14, 104:15, 105:9, 105:22
rig's [1] - 105:13
rights [2] - 73:14, 92:12
rise [3] - 45:4, 100:2, 100:24
Risk [1] - 177:14
risk [17] - 81:2, 118:17, 151:15, 151:17, 151:21, 152:3, 152:20, 172:24, 173:3, 176:10, 178:6, 183:4, 183:6, 185:12, 187:14
risks [12] - 31:23, 33:19, 57:10, 57:12, 92:2, 151:14, 151:19, 153:3, 186:13, 186:20, 188:16
RMR [1] - 195:15
road [2] - 61:6, 152:10
Road [1] - 1:14
roads [1] - 159:21
robbing [1] - 189:5
Robert [3] - 100:22, 114:4, 171:5
Roberta [1] - 179:20
rock [1] - 51:7
rocks [3] - 55:22, 190:14, 191:4
ROCKWELL [1] - 123:23
Rockwell [1] - 123:24
Rodney [4] - 11:14, 11:15, 12:17, 14:14
role [4] - 3:16, 3:24, 4:4, 148:16
roles [1] - 165:19
roof [1] - 42:11
room [7] - 26:20, 26:22, 46:12, 56:19, 88:16, 174:17, 179:23
rooms [1] - 5:5
roseate [1] - 45:23
roughly [1] - 72:12
round [7] - 24:7, 51:10, 53:14, 137:10, 142:21, 171:7, 186:11
route [2] - 126:18, 181:10

routes [2] - 31:8, 46:7
routine [8] - 17:7, 17:8, 17:16, 17:18, 17:19, 17:21, 18:3, 18:6
ROWLAND [1] - 110:2
Rowland [1] - 110:3
royalties [1] - 10:24
RPS [5] - 148:17, 148:22, 148:24, 149:6, 150:5
ruin [1] - 175:20
ruined [1] - 154:3
rule [1] - 130:22
rules [1] - 7:10
run [5] - 11:7, 87:22, 138:21, 183:9, 183:14
rundown [1] - 15:6
running [4] - 15:17, 28:3, 119:21, 161:11
runs [1] - 168:6

S

sacred [1] - 119:22
sacrifice [1] - 111:8
sacrifices [3] - 111:5, 162:16, 162:18
saddle [1] - 37:6
Sadly [1] - 52:7
safe [4] - 55:22, 67:9, 86:18, 122:6
safely [2] - 179:7, 194:12
safer [1] - 51:2
Safety [1] - 94:23
safety [28] - 13:11, 13:23, 26:16, 31:22, 33:19, 54:12, 84:6, 85:3, 85:9, 86:8, 86:12, 92:14, 93:14, 94:18, 95:3, 95:8, 106:15, 112:20, 159:3, 159:11, 165:20, 171:16, 173:3, 173:6, 176:20, 185:6, 185:16
Sail [1] - 137:20
sail [5] - 24:3, 55:6, 63:17, 137:16, 139:19
Sailing [1] - 165:13
sailing [10] - 19:13, 46:10, 63:8, 63:11, 69:22, 98:18, 107:12, 137:22, 138:9, 138:17
sailors [3] - 55:6, 59:22, 139:6
Sailors [1] - 138:11
salmon [1] - 128:2
salt [1] - 83:6
saltwater [1] - 93:16
salvage [1] - 167:14
sand [9] - 10:22, 127:3, 190:13, 191:3, 191:13, 191:14, 191:18, 191:19, 192:17
SANDERS [1] - 133:16
Sanders [1] - 133:17
sandwich [1] - 141:8
Sandy [2] - 93:6, 186:4
satisfaction [1] - 27:7
Saul's [1] - 190:11
save [5] - 47:22, 53:22, 98:10, 160:5, 185:20
Save [1] - 98:9
saves [1] - 48:17
saving [1] - 183:14
SAWYER [3] - 62:22, 62:24, 63:4
Sawyer [1] - 63:2
scale [7] - 27:13, 34:13, 41:10, 43:20, 51:23, 150:7, 186:23
scared [1] - 133:21
scenario [3] - 73:11, 74:7, 74:14
scenarios [1] - 73:24
scenic [2] - 40:3, 154:18
school [1] - 4:21
School [1] - 1:13
science [2] - 40:21, 110:10
scientific [1] - 41:16
scientist [1] - 146:4
scientists [1] - 41:4
Scotland [1] - 34:11
Scott [1] - 110:2
scour [1] - 17:20
screen [4] - 6:7, 15:22, 94:22, 178:3
scripted [1] - 78:4
scrutinize [2] - 177:19, 178:3
scupper [1] - 169:12
Sea [2] - 52:21, 59:18
sea [27] - 45:4, 60:22, 76:21, 77:4, 77:10, 80:7, 81:3, 94:3, 94:8, 94:19, 104:20, 104:22, 125:10,

131:23, 132:5,
132:8, 140:2,
142:19, 144:11,
145:7, 159:7,
163:16, 169:13,
182:23, 184:14
seabed [3] - 16:3,
17:22, 18:2
Seaboard [2] - 49:8,
175:4
seals [1] - 125:10
search [5] - 85:6,
86:16, 86:19, 113:2,
168:17
Seashore [1] - 173:22
season [4] - 30:12,
71:11, 127:18
seasons [2] - 89:5,
144:21
seats [2] - 2:3, 20:17
second [5] - 58:2,
71:21, 74:14, 85:3,
127:14
Second [3] - 53:18,
90:6, 122:3
Secondly [2] - 163:21,
186:24
seconds [2] - 9:17,
181:22
Secretary [1] - 41:5
Secretary-General's
[1] - 41:5
secure [5] - 35:21,
36:3, 36:5, 36:18,
51:3
secured [1] - 174:20
Security [4] - 90:7,
90:8, 128:22, 130:21
security [3] - 108:20,
129:3, 160:7
See [2] - 42:12, 76:24
see [45] - 2:13, 4:21,
11:5, 11:8, 19:6,
20:21, 23:24, 25:9,
28:7, 28:19, 35:24,
38:6, 38:8, 43:7,
43:22, 49:16, 52:15,
56:8, 59:15, 60:17,
61:16, 65:12, 70:4,
75:7, 86:14, 119:5,
130:13, 134:10,
135:13, 139:22,
141:4, 141:10,
156:11, 156:15,
157:13, 166:12,
166:13, 174:11,
174:12, 178:4,
183:8, 184:10,
184:15, 189:23,

191:11
seeing [1] - 143:7
seek [1] - 73:6
seem [3] - 62:2, 62:3,
156:12
seemingly [2] - 94:10,
144:18
segment [1] - 65:23
segments [1] - 66:4
selectmen [2] - 22:2,
78:9
Selectmen [4] - 22:16,
22:18, 25:16, 26:5
sell [2] - 114:23,
164:22
selling [2] - 37:6, 37:7
Senator [1] - 85:13
senators [1] - 78:8
send [5] - 6:5, 6:8,
6:21, 24:21, 168:22
sense [6] - 13:23,
13:24, 71:12,
112:11, 159:15
sensitive [1] - 132:18
sensitivities [1] -
133:7
separate [2] - 187:20,
187:23
September [1] - 40:24
series [1] - 17:6
serious [8] - 57:4,
67:8, 67:18, 83:2,
91:18, 99:10,
148:23, 187:4
seriously [2] - 131:4,
162:7
serve [2] - 120:17,
161:21
served [1] - 51:11
Service [5] - 43:3,
48:8, 56:24, 102:9,
193:24
service [1] - 160:14
SERVICE [1] - 1:5
Sesachacha [1] -
93:17
session [1] - 5:22
set [4] - 17:6, 48:13,
49:19, 175:17
sets [1] - 168:6
settle [1] - 128:21
settled [1] - 168:15
seven [5] - 15:9, 42:9,
47:9, 50:14, 88:5
Several [2] - 89:3,
89:14
several [4] - 68:8,
89:3, 121:11, 122:3
severe [4] - 89:24,

90:2, 113:5, 155:9
shadows [1] - 178:5
shallow [8] - 24:9,
49:12, 55:17, 68:20,
76:18, 76:19, 82:20,
178:17
shallows [1] - 178:15
shame [1] - 56:3
share [5] - 62:10,
92:20, 147:4, 149:6,
184:23
shared [2] - 41:13,
186:3
sharing [1] - 13:9
sharks [1] - 129:18
Shelf [2] - 99:12,
190:18
shellfish [2] - 23:22,
54:7
shift [1] - 97:10
shine [1] - 136:18
ship [1] - 79:15
shipboard [1] - 31:12
shipping [4] - 59:18,
59:21, 77:16, 80:19
ships [3] - 59:19,
69:22, 80:7
Shoal [12] - 15:8,
15:17, 16:12, 46:23,
49:13, 63:19, 66:8,
71:3, 98:22, 101:2,
128:13, 130:3
shoal [2] - 55:18,
170:2
Shoals [15] - 15:21,
17:2, 31:8, 52:6,
56:14, 71:9, 71:19,
72:9, 72:11, 73:23,
74:2, 74:4, 111:10,
140:10, 169:19
shone [1] - 136:5
shop [1] - 139:7
shore [11] - 34:19,
49:11, 49:12, 52:18,
52:22, 77:3, 93:18,
94:9, 99:21, 113:19,
185:23
shoreline [2] - 94:2,
154:10
short [7] - 23:10, 92:2,
106:7, 144:20,
154:3, 188:17
short-sighted [1] -
188:17
short-term [3] - 92:2,
154:3, 188:17
shortchanges [1] -
122:17
shortcomings [2] -

121:9, 121:13
shortly [1] - 32:5
Show [1] - 115:24
show [3] - 9:16, 74:8,
115:19
showed [1] - 43:8
showing [1] - 54:17
shown [1] - 45:20
shows [3] - 34:5,
117:17, 155:9
shroud [1] - 80:3
Shut [1] - 8:4
Siasconset [3] -
23:15, 23:19, 94:3
side [7] - 8:18, 20:13,
20:14, 22:9, 61:24,
89:13, 191:11
sides [5] - 112:10,
142:23, 144:2,
148:9, 168:11
sighted [1] - 188:17
sign [1] - 184:16
signed [1] - 32:11
significance [1] -
155:23
significant [7] - 45:10,
67:18, 69:17,
117:23, 121:11,
122:3, 124:16
significantly [4] -
12:14, 33:18, 91:15,
133:7
Significantly [1] -
44:13
signs [1] - 5:12
silos [1] - 178:5
silt [1] - 190:14
similar [5] - 27:15,
46:16, 82:23, 89:11,
104:7
similarities [1] - 54:15
simple [1] - 103:23
simpler [1] - 105:20
simply [6] - 28:7, 84:5,
126:13, 127:9,
178:3, 188:18
simulate [1] - 76:10
Singapore [1] - 181:7
single [3] - 50:7,
132:21, 134:8
single-hulled [1] -
50:7
sins [1] - 42:9
sisters [1] - 161:21
sit [1] - 20:19
site [16] - 13:18,
17:23, 18:3, 23:5,
23:6, 23:17, 23:18,
23:24, 25:12, 77:15,

78:24, 117:3,
126:15, 157:16,
169:10, 175:20
sites [18] - 15:23,
23:4, 32:22, 32:24,
33:16, 33:22, 49:12,
87:13, 102:19,
115:18, 116:7,
117:4, 117:6,
119:24, 126:24,
155:4, 157:17,
157:18
siting [2] - 33:10,
46:22
sitting [1] - 188:12
situation [7] - 68:12,
82:23, 83:9, 83:14,
86:15, 86:16, 136:8
situations [2] - 83:16,
92:16
six [15] - 15:9, 20:12,
20:15, 34:19, 44:23,
46:11, 68:3, 126:18,
146:15, 157:10,
177:6, 177:7,
178:10, 192:20,
192:21
six-year-old [1] -
146:15
sixth [1] - 191:19
sixths [1] - 191:20
size [2] - 49:19, 85:4
sky [1] - 184:13
slash [1] - 167:15
slated [1] - 34:14
sleep [1] - 75:12
slew [1] - 148:6
slightly [2] - 35:16,
125:2
slogan [1] - 98:9
slow [1] - 21:10
slowdown [1] - 185:23
slowly [1] - 39:15
small [15] - 10:16,
31:7, 58:8, 67:10,
71:10, 78:6, 94:6,
94:10, 128:2,
129:16, 147:15,
151:16, 158:3,
166:7, 176:11
smaller [3] - 16:13,
16:23, 166:17
smart [1] - 181:13
smog [1] - 139:22
smooth [1] - 52:24
snail [1] - 194:3
snapshot [2] - 144:17
snowstorms [1] -
79:22

snowy [1] - 89:6
so-called [1] - 99:5
social [4] - 28:20, 72:18, 108:22, 157:24
Society [4] - 50:21, 54:23, 54:24, 124:4
soil [2] - 161:21, 162:2
solar [3] - 42:11, 42:14, 181:15
sold [1] - 97:12
sole [1] - 152:7
solution [5] - 90:15, 112:13, 162:9, 177:12
solutions [1] - 177:10
solve [2] - 36:21, 64:13
Someone [2] - 144:24, 147:7
someone [1] - 81:8
someplace [4] - 68:9, 68:13, 68:14, 152:13
sometimes [2] - 104:23, 107:9
Sometimes [1] - 108:4
Somewhat [1] - 56:12
somewhere [4] - 152:11, 152:23, 153:6, 175:21
son [1] - 146:16
sons [1] - 161:19
soon [5] - 5:2, 20:10, 38:7, 53:5, 109:11
sooner [1] - 168:16
sorry [2] - 66:23, 167:2
sort [3] - 150:24, 184:10, 184:12
SOS [1] - 56:3
Sound [118] - 15:7, 30:6, 30:18, 31:2, 31:16, 31:19, 32:21, 34:22, 39:24, 42:17, 47:12, 47:23, 53:22, 56:21, 58:7, 58:10, 63:9, 63:11, 65:6, 67:10, 68:6, 68:19, 71:10, 71:21, 72:9, 72:14, 79:18, 79:24, 81:19, 81:21, 82:3, 82:5, 82:11, 82:14, 82:20, 83:3, 83:5, 83:7, 83:11, 86:13, 89:7, 98:9, 98:18, 101:12, 101:14, 101:20, 102:6, 102:7, 103:3, 106:12, 106:18,

107:12, 111:18, 114:7, 116:18, 117:2, 122:7, 122:10, 124:2, 127:20, 127:24, 128:4, 128:10, 130:12, 131:18, 133:5, 134:14, 134:18, 134:21, 138:3, 139:19, 140:9, 144:13, 144:18, 145:17, 148:4, 151:11, 151:21, 152:4, 152:7, 152:9, 153:3, 153:13, 153:18, 155:16, 160:6, 160:9, 163:15, 164:8, 165:12, 165:15, 166:6, 166:14, 166:16, 167:16, 167:24, 168:3, 169:7, 169:12, 169:13, 169:18, 171:6, 172:3, 172:8, 172:18, 174:9, 174:16, 174:19, 175:3, 178:13, 182:8, 187:8, 187:15, 188:13, 190:5, 191:4, 191:13
sound [4] - 13:11, 47:21, 132:18, 133:7
Sound's [1] - 101:6
sound-sensitive [1] - 132:18
Sounds [1] - 71:19
sounds [1] - 53:24
soup [1] - 86:14
source [5] - 36:14, 102:2, 103:16, 104:12, 129:15
sources [9] - 33:13, 47:4, 91:19, 145:12, 148:20, 149:13, 165:18, 172:19, 183:24
south [9] - 17:2, 75:21, 83:13, 98:20, 99:19, 190:10, 190:12, 190:15, 190:16
southeast [1] - 131:9
southeaster [1] - 117:20
southeastern [2] - 117:19, 131:14
southern [1] - 10:20
southwest [1] - 192:6

space [2] - 23:11, 164:15
spaced [3] - 132:24, 178:24, 179:5
spacing [2] - 63:12, 179:11
spawn [1] - 169:13
spawning [1] - 169:8
speaker [5] - 4:6, 37:10, 41:11, 170:16, 193:17
speakers [3] - 9:8, 20:2, 20:6
speaking [6] - 26:8, 83:24, 85:24, 140:2, 142:23, 165:15
Species [1] - 124:11
species [11] - 46:2, 110:20, 112:6, 122:9, 125:9, 125:12, 126:12, 131:23, 132:18, 140:13
specific [5] - 14:12, 144:19, 145:11, 148:12, 188:9
Specifically [2] - 132:22, 149:3
specifically [1] - 72:11
specious [1] - 40:18
speech [1] - 137:12
speed [2] - 16:6, 99:3
spend [3] - 2:15, 127:19, 163:22
spent [1] - 165:13
spill [2] - 50:9, 134:22
spills [4] - 17:19, 101:18, 102:2, 104:24
spinning [3] - 103:24, 104:4, 191:22
spins [1] - 105:17
spite [1] - 159:13
sponsor [1] - 137:19
spot [4] - 48:15, 55:10, 152:17, 167:23
spots [1] - 131:12
spread [1] - 31:19
spring [3] - 71:10, 79:19, 112:19
squander [1] - 42:6
squashed [1] - 68:7
Squid [1] - 128:2
squid [7] - 71:7, 71:10, 71:17, 128:6, 169:8, 169:16, 169:23
SSA [1] - 95:7

St [1] - 35:10
stack [1] - 48:16
staff [1] - 56:16
stake [1] - 144:8
stakes [1] - 110:20
stamp [1] - 141:23
stamped [1] - 80:14
stand [6] - 32:15, 46:8, 61:16, 62:12, 97:5, 110:23
Standard [1] - 148:17
standards [2] - 43:17, 54:12
standing [1] - 146:10
standpoint [1] - 84:6
stands [2] - 52:13, 108:7
star [1] - 51:7
start [12] - 21:21, 21:23, 22:3, 31:18, 32:10, 32:14, 55:22, 70:10, 127:18, 141:16, 179:24, 192:18
started [7] - 2:4, 27:6, 127:16, 162:8, 190:9, 190:22, 190:23
starting [1] - 93:23
State [1] - 69:4
state [12] - 3:22, 13:9, 32:16, 43:19, 57:17, 66:20, 69:2, 89:20, 95:3, 107:24, 108:12, 174:5
Statement [7] - 3:4, 10:10, 12:10, 14:19, 71:24, 79:12, 134:6
statement [10] - 3:9, 30:14, 30:18, 78:17, 106:7, 166:3, 169:4, 171:4, 173:24, 189:2
statements [4] - 43:11, 52:5, 53:19, 57:12
States [7] - 61:14, 64:2, 75:20, 76:15, 149:15, 162:8, 186:18
states [6] - 54:11, 66:9, 80:11, 117:13, 124:24, 149:11
STATES [1] - 1:4
stationary [1] - 101:17
status [1] - 105:21
stay [1] - 164:14
staying [1] - 9:10
steal [1] - 69:18
stealing [1] - 37:12

steam [1] - 104:6
steamship [1] - 176:24
Steamship [9] - 29:20, 30:4, 30:8, 30:11, 30:20, 31:20, 146:9, 158:24, 171:18
steel [3] - 79:7, 89:9, 89:14
Stellwagen [1] - 82:22
stem [1] - 45:10
stenographic [1] - 195:9
step [2] - 36:20, 64:20
Stephen [1] - 37:3
Steven [2] - 139:15, 150:19
still [7] - 72:22, 89:18, 94:5, 149:22, 161:8, 161:9, 183:17
stock [1] - 97:13
stood [2] - 161:14, 183:18
stop [9] - 9:17, 9:18, 41:20, 45:19, 156:13, 181:18, 183:20, 184:16
Stop [1] - 114:5
stopped [3] - 60:3, 87:10, 190:8
storage [1] - 24:20
stored [1] - 38:11
stories [1] - 61:23
storing [1] - 24:18
storm [1] - 45:3
storms [2] - 79:22, 94:4
story [2] - 44:10, 173:23
straight [2] - 138:17, 164:11
strand [1] - 15:16
Stranding [1] - 124:5
strategies [1] - 125:6
street [1] - 110:17
Street [1] - 181:3
strength [1] - 141:22
strict [2] - 92:14, 92:16
strike [1] - 124:21
strikes [1] - 169:15
strikes [1] - 124:16
strip [1] - 134:24
strips [3] - 159:22, 160:4, 160:12
strong [4] - 40:6, 78:7, 93:2, 94:4
stronger [1] - 33:16
strongly [5] - 42:23,

44:8, 109:4, 126:11, 166:22 structure [3] - 37:24, 129:15, 145:5 structures [9] - 13:4, 34:9, 55:23, 89:9, 89:11, 89:14, 120:8, 166:14 stuck [1] - 141:7 studied [3] - 143:13, 157:8, 182:9 studies [18] - 54:17, 66:14, 80:5, 80:22, 84:7, 84:18, 84:21, 86:10, 92:9, 125:6, 126:2, 144:10, 144:15, 144:19, 157:9, 159:14, 167:3 Study [2] - 11:17, 57:7 study [15] - 30:22, 31:11, 31:13, 34:3, 65:22, 67:7, 71:16, 85:11, 86:5, 87:6, 112:2, 112:15, 112:24, 154:22 stuff [3] - 28:16, 69:23, 191:4 stunned [1] - 49:16 Sturgell [1] - 84:14 subject [1] - 41:4 subjected [1] - 140:4 submission [1] - 75:18 submit [3] - 53:10, 194:2, 194:6 submitted [2] - 87:5, 178:9 subsidies [2] - 95:17, 117:23 substantial [3] - 45:4, 122:15, 152:4 substrate [1] - 16:3 succeed [1] - 150:5 successful [2] - 49:17, 91:24 successfully [3] - 104:16, 150:6, 157:6 suddenly [1] - 108:7 suffer [1] - 141:19 sufficient [1] - 187:22 suggest [1] - 95:16 suggestions [1] - 20:3 suggests [1] - 30:5 summarizing [1] - 41:15 Summary [2] - 40:13, 177:15 summary [2] - 65:11, 77:14	summed [1] - 135:23 summer [13] - 30:7, 59:24, 71:11, 79:19, 112:19, 127:17, 127:23, 128:4, 138:7, 146:2, 175:7, 175:8, 192:2 summers [1] - 63:6 summertime [1] - 164:17 sunny [1] - 79:21 sunrise [1] - 182:24 supplemental [2] - 121:12, 123:6 supplied [1] - 144:4 supplies [1] - 149:9 supply [9] - 24:23, 33:10, 83:2, 83:4, 83:7, 99:13, 148:19, 149:5, 149:12 supplying [1] - 48:10 support [11] - 8:23, 37:19, 42:23, 43:13, 44:9, 47:20, 92:6, 115:20, 141:20, 158:8, 158:19 supported [1] - 150:11 supporter [1] - 40:6 supporting [3] - 109:2, 109:4, 115:24 supposed [1] - 69:7 surface [3] - 102:20, 104:22, 132:7 Surfside [1] - 1:14 surging [1] - 39:18 surplus [1] - 74:6 surrounding [2] - 106:19, 167:18 survey [1] - 72:2 survive [2] - 110:19, 132:3 susceptible [1] - 128:16 suspend [1] - 123:4 suspended [1] - 121:20 sustain [1] - 174:15 sustainability [1] - 110:22 sustaining [2] - 175:4, 175:7 sweeping [1] - 120:2 symbol [2] - 162:13, 162:14 symbolizing [1] - 162:19 synopsis [1] - 10:14 system [4] - 11:24,	40:11, 49:9, 82:21 systems [1] - 80:20	T	table [3] - 65:11, 82:6, 82:9 tactics [1] - 53:20 tales [1] - 140:5 tall [3] - 140:4, 190:7, 191:16 tank [2] - 101:14, 101:15 tanker [1] - 159:5 tankers [2] - 50:4, 159:8 target [1] - 90:9 task [1] - 158:7 tax [2] - 50:19, 113:23 taxpayer [2] - 50:20, 188:5 TAYLOR [4] - 85:18, 93:6, 96:15, 158:12 Taylor [5] - 85:19, 93:7, 158:13, 185:10, 186:4 team [2] - 67:13, 78:20 tearing [1] - 132:8 technical [4] - 66:18, 146:12, 148:13, 154:21 techniques [1] - 50:5 technologies [1] - 152:2 Technologies [1] - 75:2 Technology [2] - 163:5, 169:5 technology [18] - 16:2, 16:6, 34:20, 49:11, 68:17, 68:18, 68:21, 76:5, 76:17, 76:18, 76:19, 87:20, 131:8, 163:5, 163:7, 163:20, 186:22, 187:14 Ted [1] - 185:10 Telecommunication [1] - 84:20 telephone [1] - 72:2 telephoto [1] - 52:20 temperatures [1] - 31:15 temporarily [2] - 72:21, 177:20 ten [7] - 23:4, 76:3, 98:19, 117:4, 138:5, 180:7, 182:4 tenders [1] - 88:24	tending [1] - 92:10 tens [1] - 78:7 term [8] - 91:23, 92:2, 92:20, 132:14, 143:20, 154:3, 160:3, 188:17 terminal [1] - 39:17 Terminal [1] - 146:9 terminated [1] - 138:10 terms [10] - 55:4, 76:22, 84:10, 84:11, 92:19, 102:8, 110:22, 111:4, 122:6, 158:3 tern [1] - 45:23 terns [1] - 144:11 terrible [1] - 151:8 terrorist [1] - 90:9 testimony [2] - 43:23, 148:10 THE [1] - 1:4 theme [1] - 122:22 themselves [4] - 28:10, 60:4, 121:16, 149:19 Therefore [1] - 79:6 therefore [2] - 61:6, 76:11 they've [1] - 3:7 thieves [1] - 37:12 thinking [2] - 44:11, 55:21 third [3] - 33:9, 66:15, 178:24 Third [1] - 122:17 thirds [1] - 100:7 Thirty [2] - 72:7, 73:16 thirty [1] - 73:16 Thirty-four [1] - 72:7 thirty-four [1] - 73:16 Thirty-two [1] - 73:16 Thompson [1] - 162:24 THOMPSON [1] - 163:2 thorough [1] - 53:17 thoroughly [2] - 157:7, 166:23 thoughts [5] - 10:8, 21:12, 93:8, 95:21, 184:23 thousand [2] - 84:24, 163:24 thousand-foot [1] - 163:24 thousands [5] - 78:7, 139:10, 159:19, 159:20	threat [4] - 45:13, 45:15, 108:23, 124:16 threatened [3] - 28:8, 94:5, 110:7 threats [2] - 108:20, 125:11 Three [1] - 155:4 three [17] - 9:14, 11:7, 20:15, 20:20, 22:23, 25:3, 87:4, 113:11, 114:10, 114:16, 126:21, 128:14, 155:4, 159:4, 161:5, 168:12, 191:14 three-mile [1] - 22:23 throughout [2] - 126:13, 160:12 thrown [1] - 64:11 tidal [2] - 87:21, 95:22 tide [10] - 27:10, 112:21, 168:6, 185:21, 192:19, 192:20, 193:4, 193:5 tides [1] - 87:23 tips [1] - 99:24 Titanic [2] - 44:17, 44:21 today [16] - 34:3, 40:12, 43:24, 44:12, 68:17, 70:11, 75:12, 75:14, 77:18, 79:5, 94:5, 114:13, 129:8, 130:24, 161:9, 191:6 today's [2] - 68:18, 90:7 Todd [1] - 98:15 Together [1] - 150:9 together [2] - 15:4, 68:7 tomorrow [2] - 41:21, 194:3 Tonight [3] - 165:15, 185:14, 193:19 tonight [26] - 3:12, 3:16, 3:24, 4:5, 9:9, 9:20, 20:5, 32:9, 78:4, 87:20, 88:22, 97:4, 110:4, 112:14, 121:8, 123:3, 130:8, 143:6, 148:11, 150:21, 158:22, 160:23, 165:10, 183:18, 186:4, 186:12 tons [1] - 45:8 took [4] - 18:8, 64:5, 69:14, 84:4 toothed [1] - 126:3
--	--	--	----------	---	---	---

top [3] - 48:16, 60:12, 138:6
topic [2] - 96:24, 97:2
topics [1] - 166:4
tops [1] - 164:3
total [6] - 50:9, 65:19, 73:22, 74:8, 74:12, 119:5
totally [3] - 138:22, 154:9, 155:13
tough [2] - 86:15, 182:15
Tourism [1] - 28:6
tourism [11] - 27:19, 33:20, 46:14, 46:16, 54:5, 55:5, 55:14, 100:9, 106:16, 131:9, 140:15
tourist [2] - 79:4, 131:17
tourist-dependent [1] - 131:17
tourists [3] - 113:14, 131:13, 131:15
tow [1] - 73:2
toward [4] - 92:10, 101:19, 136:24, 162:9
towards [4] - 64:21, 97:21, 138:19, 156:18
tower [5] - 36:10, 75:24, 98:22, 99:2, 116:6
towers [9] - 31:14, 31:19, 58:13, 63:12, 94:14, 111:24, 145:4, 159:17, 160:4
Town [1] - 147:8
town [7] - 7:4, 7:6, 7:8, 7:10, 7:16, 55:3, 147:10
track [1] - 64:22
Tracy [1] - 106:6
trade [1] - 100:16
traded [1] - 71:13
trading [1] - 100:15
traditional [1] - 72:17
traffic [13] - 9:15, 46:7, 77:17, 102:3, 127:6, 129:2, 159:9, 163:4, 163:21, 163:24, 172:7, 172:14, 194:13
tragic [1] - 94:12
train [1] - 39:20
training [1] - 5:14
trains [1] - 54:9
transcend [1] - 158:2

transcript [3] - 21:11, 53:11, 195:9
transfer [1] - 20:24
transformation [1] - 97:11
transformer [4] - 58:7, 101:5, 101:7, 101:16
transit [1] - 124:22
transiting [1] - 124:20
transmission [1] - 49:9
Transmission [1] - 16:5
transport [1] - 151:10
transportation [8] - 105:14, 105:16, 106:15, 130:20, 172:5, 172:19, 180:20, 185:16
trash [1] - 44:15
travel [1] - 139:19
traveled [1] - 51:23
traveling [2] - 101:19, 139:23
travels [1] - 133:6
traverse [2] - 79:18, 81:4
travesty [1] - 100:8
trawled [1] - 71:21
trawlers [2] - 72:19, 73:2
trawling [2] - 72:21, 178:23
TRC [1] - 14:20
treasure [2] - 174:13, 186:19
treatment [1] - 154:8
tremendous [1] - 86:23
triangle [2] - 164:9, 178:14
trickle [1] - 113:20
trickle-down [1] - 113:20
tried [1] - 70:13
trip [1] - 173:19
triple [2] - 95:17, 101:9
tripods [1] - 34:7
trips [1] - 173:21
trivial [1] - 64:10
troubled [1] - 124:9
true [5] - 52:10, 62:3, 177:21, 189:4, 195:8
True [1] - 44:10
truly [2] - 47:22, 175:17
trusses [1] - 34:8
trust [2] - 57:6, 141:21

Trustees [1] - 91:2
trusts [1] - 122:2
try [9] - 9:9, 15:22, 20:4, 61:7, 75:13, 108:2, 160:3, 171:13, 184:12
trying [5] - 45:18, 132:2, 160:14, 182:12
Tuckernuck [9] - 15:11, 17:3, 24:2, 24:11, 24:23, 25:12, 29:4, 112:18
Tuesday [1] - 1:11
turbine [15] - 16:16, 35:14, 60:15, 90:16, 104:6, 105:2, 105:4, 105:6, 126:4, 130:14, 130:20, 132:21, 141:9, 155:8, 177:22
turbines [54] - 15:13, 16:14, 23:3, 23:12, 23:14, 31:12, 34:11, 46:7, 46:10, 49:24, 52:22, 68:4, 69:20, 70:2, 85:8, 91:11, 91:13, 94:21, 95:23, 99:12, 99:19, 99:21, 101:23, 105:23, 111:9, 112:14, 113:18, 115:5, 115:8, 120:9, 120:16, 126:2, 132:6, 132:12, 132:16, 132:23, 134:21, 138:14, 140:12, 141:4, 153:9, 162:12, 162:14, 174:12, 178:5, 178:23, 179:5, 179:11, 180:5, 180:6, 180:16, 184:12, 186:22
turn [10] - 2:20, 4:7, 4:24, 8:7, 8:9, 9:23, 36:7, 99:22, 116:18, 179:7
Turn [1] - 8:13
turned [1] - 27:9
turtles [5] - 125:10, 131:24, 142:19, 144:11, 145:7
tweetie [1] - 145:8
twice [1] - 93:22
twin [1] - 108:20
two [37] - 4:14, 4:18, 15:16, 18:4, 20:15, 21:16, 24:16, 28:2,

34:10, 34:13, 49:17, 56:22, 73:16, 73:23, 74:3, 80:13, 87:4, 88:23, 89:4, 92:8, 99:22, 100:7, 109:15, 109:19, 128:14, 131:5, 131:13, 149:8, 159:4, 159:21, 164:11, 168:12, 171:6, 180:18, 187:3, 191:14, 192:11
two-thirds [1] - 100:7
type [3] - 29:13, 68:23, 71:24
types [3] - 16:18, 57:2, 105:4

U

U.S. [6] - 34:2, 80:17, 80:21, 94:24, 130:22, 185:19
ultimately [1] - 141:23
UN's [1] - 40:23
unacceptable [1] - 122:24
unanticipated [1] - 41:24
unassessed [1] - 154:11
unconscionable [1] - 177:24
undecided [1] - 52:2
under [7] - 69:2, 73:23, 81:4, 102:7, 160:11, 167:13, 168:10
under-utilized [1] - 160:11
underfunded [1] - 144:9
underneath [1] - 191:8
understandable [1] - 182:20
understates [1] - 93:12
understood [2] - 125:23, 126:7
underwater [1] - 133:6
underway [1] - 122:14
Unfortunately [2] - 65:16, 167:22
unfounded [1] - 55:11
unhappy [1] - 137:11
unheard [1] - 131:12
unheard-of [1] - 131:12
uninterrupted [1] - 8:18
unique [8] - 82:5, 82:12, 82:21, 106:17, 111:20, 166:6, 174:13, 182:18
unit [5] - 75:19, 76:2, 76:7, 76:12, 77:12
United [7] - 61:14, 64:2, 75:20, 76:15, 149:15, 162:8, 186:17
UNITED [1] - 1:4
units [1] - 77:8
University [1] - 70:22
unknowns [1] - 188:19
unless [1] - 181:9
unlimited [1] - 34:8
unrealistic [2] - 131:6, 177:10
unsafe [2] - 176:23, 177:5
unspoiled [2] - 160:5, 185:20
unstable [1] - 50:3
unsurpassed [1] - 48:22
untapped [1] - 33:8
untold [1] - 112:5
untrue [1] - 52:13
unused [1] - 160:2
unusual [1] - 101:10
unusually [1] - 103:20
unwillingness [1] - 72:24
up [64] - 5:24, 6:6, 8:12, 9:14, 9:15, 16:11, 20:16, 20:20, 21:5, 21:13, 21:19, 24:6, 28:3, 32:11, 32:13, 32:23, 34:24, 35:2, 36:20, 47:6, 51:6, 53:19, 59:10, 60:6, 61:22, 68:24, 69:21, 74:15, 77:11, 84:23, 89:22, 90:10, 96:14, 100:6, 107:7, 113:12, 118:21, 119:8, 123:14, 127:21, 127:24, 128:18, 129:5, 131:13, 135:23, 139:23, 145:14, 152:9, 153:21, 159:22, 162:5, 165:22, 166:8,

168:23, 170:8,
180:12, 183:18,
184:11, 187:19,
191:5, 191:20,
191:21, 193:4, 193:6
upgrade [1] - 33:11
upper [1] - 38:12
Upper [1] - 137:22
ups [1] - 31:18
upstate [1] - 107:7
uranium [1] - 50:5
urge [5] - 120:21,
145:10, 157:7,
158:7, 160:15
urged [1] - 42:5
urgent [1] - 120:23
US [1] - 48:24
USA [4] - 74:23, 74:24,
75:17, 185:14
useful [3] - 102:12,
103:4, 187:11
useless [1] - 178:18
users [1] - 176:21
uses [3] - 19:10,
47:14, 180:18
usual [1] - 41:9
utility [4] - 27:16,
27:17, 43:20, 146:7
Utility [1] - 56:17
utility-scale [1] -
43:20
utilize [1] - 157:20
utilized [1] - 160:11
utmost [1] - 185:17
utterly [1] - 119:22

V

vacuum [1] - 116:15
vagaries [2] - 28:14,
40:10
valid [2] - 54:15, 134:9
valuable [2] - 3:5, 6:24
valuation [3] - 71:3,
72:2, 73:11
value [4] - 55:15,
73:22, 74:9, 74:13
valued [1] - 91:6
values [4] - 54:5, 60:5,
113:19, 140:16
variable [1] - 87:3
variety [3] - 144:11,
145:12, 149:13
various [2] - 105:12,
142:18
vast [3] - 33:23, 82:15,
160:10
vastly [1] - 144:9
Vatican [2] - 42:7,

42:10
Vatican's [1] - 42:15
vehemently [3] -
26:13, 26:18, 27:21
vehicles [1] - 140:19
velocities [1] - 24:6
Venice [1] - 100:14
venue [2] - 6:14, 6:15
verge [1] - 181:5
verified [1] - 99:5
vertebrates [1] - 82:16
vessel [3] - 19:12,
124:15, 127:6
vessels [12] - 18:4,
30:8, 31:4, 67:10,
71:6, 72:12, 101:12,
101:17, 101:19,
124:19, 177:17,
177:20
viability [2] - 116:9,
185:11
viable [5] - 48:12,
87:8, 117:10,
118:20, 185:12
vibration [2] - 17:16,
17:17
vice [1] - 25:13
vicinity [2] - 124:20,
126:15
Victoria [1] - 53:14
view [9] - 25:14,
25:21, 35:17, 51:24,
66:22, 121:20,
141:11, 162:11,
184:6
viewpoint [2] - 40:3,
85:9
views [15] - 3:14, 3:22,
8:17, 8:24, 44:14,
62:16, 91:6, 91:16,
151:4, 154:10,
155:2, 155:3, 155:6,
193:22, 194:6
VIGIL [2] - 142:7,
145:22
Vigil [1] - 145:24
Vikings [1] - 100:13
Vineyard [14] - 15:10,
36:8, 71:19, 75:21,
82:20, 87:17, 99:20,
100:5, 127:24,
131:12, 164:8,
169:18, 191:9, 194:4
violation [1] - 125:5
Virginia [1] - 134:24
virtually [1] - 178:14
visibility [1] - 24:10
visible [4] - 52:22,
91:9, 120:8, 120:16

visionary [1] - 47:20
visited [2] - 49:14,
60:19
visitor [1] - 121:6
vistas [3] - 120:2,
122:13, 153:15
visual [10] - 19:5,
19:9, 33:21, 66:16,
70:2, 154:7, 154:8,
154:21, 154:22,
155:23
Visual [1] - 66:19
visualize [2] - 183:8,
184:12
vital [4] - 82:14,
109:10, 130:24,
174:8
voice [1] - 6:23
voices [1] - 44:5
VOICES [1] - 39:3
VOLLANS [2] - 51:5,
51:8
Vollans [1] - 51:5
Volume [1] - 1:1
votes [1] - 106:11

W

waged [1] - 135:7
wait [3] - 85:11, 86:21,
123:17
waiting [4] - 20:23,
39:18, 83:23, 97:22
Wales [1] - 73:5
Wall [1] - 181:2
walls [1] - 42:15
Wampanoag [1] -
100:11
Wampanoags [1] -
175:6
wants [3] - 53:22,
181:23, 194:9
warmer [1] - 89:21
warming [14] - 40:21,
41:17, 45:5, 45:6,
61:18, 89:22, 91:21,
107:18, 108:21,
110:11, 162:4
warn [1] - 37:8
warriors [1] - 166:21
wars [1] - 135:7
washed [2] - 135:20,
137:8
WASSERMAN [1] -
42:20
Wasserman [1] -
42:21
Waste [1] - 23:5

water [52] - 15:14,
15:24, 23:14, 31:2,
33:16, 33:22, 34:2,
34:18, 34:20, 38:14,
49:12, 55:18, 68:20,
75:14, 75:19, 76:2,
76:9, 76:15, 76:16,
76:18, 76:19, 77:22,
82:13, 82:19, 82:20,
83:2, 83:4, 83:6,
90:15, 95:23,
104:19, 112:13,
117:7, 129:5,
132:15, 132:17,
137:15, 137:19,
138:13, 141:9,
162:2, 165:21,
166:16, 167:13,
168:2, 168:14,
168:24, 185:13,
191:5
Water [1] - 185:14
water's [1] - 104:22
waters [13] - 11:6,
11:7, 32:21, 39:18,
48:21, 52:21, 81:4,
92:13, 127:2, 132:3,
143:7, 165:14,
167:18
waterway [4] - 176:22,
176:23, 185:8,
185:12
waterways [2] - 88:19,
172:5
watt [1] - 29:11
WATTLEY [1] - 116:23
Wattley [1] - 116:24
wave [3] - 11:9, 15:24,
24:8
waves [1] - 94:4
waving [1] - 140:2
Wayne [2] - 30:15,
176:16
ways [2] - 6:22, 12:5
wealth [1] - 36:23
weary [1] - 161:4
weather [4] - 31:5,
81:5, 144:24, 168:22
website [1] - 99:4
Week [1] - 137:23
week [1] - 139:20
week's [1] - 46:20
weekend [1] - 166:21
weeks [1] - 159:4
weighing [1] - 44:7
weight [1] - 76:10
Welcome [1] - 22:14
welcome [3] - 2:10,
14:8, 22:16

welfare [1] - 74:6
well-known [2] - 91:3,
163:9
well-oiled [1] - 82:12
West [1] - 134:24
west [1] - 192:2
Westinghouse [1] -
163:12
wetland [1] - 40:3
whack [2] - 143:17,
145:3
whale [1] - 125:20
whalers [1] - 175:6
whales [8] - 124:17,
124:20, 126:4,
126:5, 126:6,
126:17, 136:9,
144:11
whaling [2] - 69:23,
100:15
Whaling [1] - 173:19
what-ifs [1] - 64:11
WHEATLEY [1] -
56:11
Wheatley [1] - 56:12
whichever [1] - 104:9
whirling [1] - 94:20
white [2] - 135:24,
141:8
White [1] - 175:24
Whitey [4] - 21:24,
22:15, 26:6, 172:12
whole [15] - 11:24,
17:9, 43:9, 44:15,
46:2, 61:4, 67:23,
69:14, 113:8,
137:11, 143:5,
147:14, 170:4,
173:21, 193:8
wholesale [3] - 114:9,
117:19, 117:20
wide [4] - 63:18, 91:6,
145:12, 149:12
wife [1] - 171:6
wild [1] - 94:16
wildlife [2] - 40:17,
124:10
Willauer [3] - 21:24,
22:15, 172:12
WILLAUER [1] - 22:14
William [1] - 160:21
willing [1] - 111:5
WIND [1] - 1:6
wind [184] - 11:9, 16:4,
16:5, 19:13, 23:2,
24:5, 27:12, 28:8,
30:16, 31:6, 31:21,
33:15, 33:24, 34:20,
35:13, 36:11, 37:19,

37:23, 38:9, 38:14,
39:23, 40:5, 40:15,
42:16, 42:24, 44:18,
45:8, 45:13, 45:22,
46:5, 46:14, 47:2,
48:21, 48:23, 49:5,
49:10, 49:14, 49:17,
49:21, 50:11, 51:24,
52:8, 52:9, 52:18,
55:11, 59:15, 59:17,
59:20, 60:3, 60:16,
60:20, 63:10, 63:19,
67:7, 68:3, 68:6,
68:17, 68:20, 69:8,
69:14, 69:19, 69:20,
70:2, 70:4, 70:6,
72:16, 72:17, 72:20,
73:3, 73:8, 73:14,
73:20, 73:24, 74:3,
74:10, 74:16, 75:4,
75:14, 75:19, 76:2,
76:15, 76:16, 77:19,
84:5, 84:11, 84:22,
90:8, 90:15, 91:9,
91:21, 92:7, 92:13,
92:24, 94:14, 94:20,
95:22, 98:7, 98:16,
98:17, 98:19, 98:20,
98:23, 99:3, 99:11,
99:13, 99:20, 101:8,
102:13, 102:21,
103:5, 103:14,
104:24, 105:4,
105:6, 105:23,
106:12, 111:9,
111:16, 111:19,
114:14, 114:16,
114:18, 115:8,
115:12, 115:19,
116:3, 117:15,
119:17, 120:9,
120:12, 120:17,
120:22, 121:15,
126:2, 126:4,
126:21, 129:21,
130:10, 130:13,
132:16, 133:23,
134:12, 134:15,
138:18, 138:19,
138:21, 138:23,
149:22, 150:7,
150:13, 152:17,
152:24, 155:8,
160:4, 162:11,
162:13, 163:6,
163:7, 163:20,
164:20, 168:7,
172:12, 173:2,
174:11, 177:18,
177:22, 178:19,

179:4, 179:8,
180:16, 181:15,
183:17, 183:19,
185:16, 185:24,
186:17, 186:18,
186:19, 186:24,
187:3, 187:9, 188:3,
192:3, 192:4
Wind ^[111] - 2:21,
11:15, 14:12, 14:15,
22:19, 25:11, 26:7,
29:6, 33:3, 33:6,
33:11, 34:7, 34:22,
43:6, 43:21, 44:9,
47:9, 48:9, 49:22,
50:17, 51:2, 51:9,
51:19, 52:5, 56:21,
59:3, 64:4, 64:13,
65:10, 66:13, 67:14,
70:15, 73:4, 73:13,
80:13, 81:6, 89:12,
93:10, 93:11, 95:13,
98:21, 99:4, 99:24,
100:18, 100:24,
101:22, 102:4,
102:11, 103:2,
104:12, 105:24,
106:3, 106:13,
111:9, 111:22,
114:5, 115:21,
116:4, 116:17,
117:5, 117:9,
117:21, 117:24,
118:19, 119:6,
119:7, 121:14,
121:23, 123:5,
124:10, 125:8,
125:15, 125:17,
126:8, 131:4, 134:9,
135:10, 135:11,
140:14, 141:15,
146:23, 149:2,
149:4, 149:20,
149:23, 150:4,
150:8, 150:13,
151:6, 153:8, 154:7,
154:22, 161:7,
161:16, 162:3,
162:10, 164:21,
173:5, 176:23,
177:7, 177:8,
181:11, 185:15,
185:17, 186:2,
186:13, 186:16,
186:21, 187:18,
188:17
Wind's ^[9] - 34:17,
71:23, 102:7, 118:7,
148:16, 177:12,
177:14, 177:16,

178:6
wind-generated ^[2] -
99:11, 102:13
windings ^[2] - 104:3,
105:18
windmills ^[7] - 55:7,
159:7, 163:16,
164:3, 166:5,
166:17, 191:15
windows ^[1] - 45:16
winds ^[5] - 33:17,
83:12, 166:7,
166:20, 191:24
windstop.org ^[1] -
78:15
winning ^[1] - 111:19
winter ^[3] - 35:11,
79:19, 192:3
winters ^[4] - 31:15,
89:20, 90:2
wish ^[3] - 93:8, 170:5,
186:3
woe ^[1] - 140:5
women's ^[1] - 4:22
wonder ^[2] - 32:20,
87:7
wonderful ^[2] - 25:23,
62:15
wooden ^[1] - 39:12
Woods ^[2] - 39:19,
44:24
word ^[1] - 189:18
words ^[1] - 54:3
works ^[1] - 108:4
workshop ^[1] - 110:4
world ^[24] - 23:16,
28:23, 37:16, 37:18,
41:19, 46:17, 47:14,
51:3, 59:4, 62:17,
64:18, 72:16, 89:23,
97:15, 108:23,
115:18, 131:10,
136:4, 136:6,
136:16, 157:23,
162:6, 188:2, 189:2
world's ^[4] - 41:3,
42:6, 75:3, 110:18
world-renowned ^[1] -
131:10
worried ^[2] - 133:21,
143:5
worries ^[1] - 46:5
worry ^[4] - 37:5, 37:6,
60:21, 176:4
worrying ^[1] - 44:12
worse ^[1] - 52:13
worth ^[1] - 100:18
wow ^[1] - 87:6
wreak ^[1] - 110:15

write ^[1] - 21:14
writing ^[2] - 11:23,
87:5
written ^[2] - 6:22, 53:9
wrought ^[1] - 120:19

X

XVI ^[1] - 42:5

Y

Yacht ^[1] - 120:7
yard ^[1] - 52:15
Yarmouth ^[2] - 2:12,
30:13
year ^[28] - 24:7, 27:5,
27:24, 34:15, 39:11,
42:5, 44:23, 51:10,
53:14, 59:19, 79:19,
80:9, 81:4, 99:14,
101:24, 111:15,
115:10, 118:23,
127:19, 131:16,
137:10, 142:21,
146:15, 171:7,
175:8, 186:11
year-long ^[1] - 111:15
year-round ^[5] -
53:14, 137:10,
142:21, 171:7,
186:11
yearly ^[1] - 93:22
years ^[78] - 28:2,
32:19, 32:20, 36:19,
38:9, 39:2, 39:8,
42:23, 44:8, 47:9,
50:14, 56:13, 61:22,
63:9, 63:20, 70:12,
76:3, 77:7, 80:13,
81:18, 82:7, 87:4,
88:5, 89:3, 89:4,
90:23, 92:8, 93:23,
96:23, 98:18,
107:15, 116:6,
118:21, 119:20,
128:14, 133:18,
135:21, 136:18,
136:19, 137:10,
138:5, 139:17,
142:20, 146:3,
149:8, 153:5,
157:10, 159:13,
161:3, 161:5,
161:14, 163:3,
163:11, 163:12,
167:12, 168:12,
171:8, 172:24,
173:2, 174:11,
176:18, 177:6,

177:8, 178:10,
180:8, 182:4, 182:6,
182:8, 183:23,
184:2, 184:21,
186:11, 189:20,
190:6, 190:21,
193:12

yell ^[1] - 142:14
yellow ^[2] - 9:16,
139:22

Yellowstone ^[2] -

111:21, 153:9

yesterday ^[2] - 75:11,
97:13

Yesterday ^[1] - 75:16

York ^[2] - 40:24, 107:7

Yosemite ^[1] - 111:21

young ^[2] - 128:6,
128:10

yourself ^[1] - 8:11

yourselves ^[1] -
143:20

Z

Zack ^[1] - 146:15

zag ^[1] - 138:20

zealous ^[1] - 107:3

zero ^[1] - 48:14

zig ^[1] - 138:20

zone ^[3] - 90:12,
101:17, 163:17

zones ^[1] - 50:3

Zoning ^[1] - 51:11

zooplankton ^[1] -
82:15