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BUREAU OF OCEAN ENERGY MANAGEMENT
BOEM
RENEWABLE ENERGY ON THE OUTER CONTINENTAL SHELF

PUBLIC OPINIONS ON THE
NORTH CAROLINA OFFSHORE WIND VISUALIZATIONS

Thursday, January 10, 2013

Public opinions taken at the Hilton
Wilmington Riverwalk Hotel, 301 North Water Street,
Wilmington, North Carolina, before Kathleen Tate,
Registered Professional Reporter and Notary Public,
on the above date, commencing at 6:00 p.m.

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1 LANCE KENWORTHY: My name is Lance
2 Kenworthy, and I'm from Beaufort, North Carolina. I
3 live in Wilmington, North Carolina. I think that
4 the panoramic -- where you actually sit and see the
5 panoramic view and you can turn your head side to
6 side shows the best how they would look from the
7 shore. I also think that the lighthouse shots are
8 good and probably important for Cape Hatteras, but
9 most people would be affected mainly by just looking
10 from the beach from ground level.

11 In terms of being able to access and
12 properly view the presentation media, unless you
13 have the panoramic set up in front of you, then
14 you're probably just going to look at it on a flat
15 screen or something like that, so it could be a
16 little bit distorted if you didn't know how to view
17 it from side to side.

18 To me, I would be acceptable with the
19 projects at ten or 20 nautical miles personally.
20 Frankly, I was a little bit surprised at how stark
21 the on/off was with the lights during the night
22 view. During the day, I would really -- it's really
23 pretty unobtrusive, but the night view was something
24 that I'd never seen before. I had seen
25 visualization studies during the day and that was

1 kind of -- that was a little bit shocking.

2 I would still always continue to use the
3 national parks. I think that the off-shore wind
4 development would be something that might visually
5 offend people at first, but it's like other things
6 where you become accustomed to something and it
7 wouldn't necessarily -- for generations to come it
8 wouldn't be a big deal.

9 PAT KELLY: My name is Pat, and this
10 is Paul Kelly, K-E-L-L-Y. We're from Raleigh, and
11 we also -- we're not here representing our Care of
12 Creation Ministry, but we will be reporting back to
13 them, which would be our faith-based group that is
14 interested in just that.

15 MR. KELLY: Environmental justice
16 issues are our interest and concern.

17 MRS. KELLY: We thought that the
18 visualization was extremely well done and very, very
19 informative. We are going home with a lot of good
20 information, but we also believe that there's going
21 to be a long period of time where the citizens of
22 North Carolina could learn a lot and we think we
23 have some wonderful avenues for that to occur.

24 We've got three newly renovated aquariums
25 in the beach areas where a lot of tourists go and do

1 a lot of scientific learning. That would be a spot
2 where BOEM could get information out, even exhibits
3 out. In Raleigh we also have a newly renovated
4 Museum of Natural Science, and that museum does have
5 an area that's dedicated to the marine environment.

6 We would love to see this information on a
7 continual basis getting to the citizens of North
8 Carolina. Also, we know that in the schools, the
9 high schools teach environmental science classes and
10 the colleges, of course, have majors in that area.

11 MR. KELLY: We have a university
12 system that has, what is it, 14, 17 universities?

13 MS. KELLY: Yes.

14 MR. KELLY: We have community colleges
15 in just about every county.

16 MS. KELLY: So, if there were a short
17 curriculum that would be available to those sites,
18 we think that would be very helpful.

19 MR. KELLY: And the visualization, I
20 know it takes some hands-on in the sense of making
21 sure that people understand the perspective, but I
22 think that could be something that could be
23 transferrable to people at any one of those sites to
24 do well with students or the public. And we're
25 excited. Thanks.

1 MS. KELLY: Yes.

2 RYAN BRAGG: My name is Ryan Bragg,
3 R-Y-A-N, B-R-A-G-G; Wrightsville Beach, North
4 Carolina. From a positive, I think that just being
5 able to see this visually definitely showed me a lot
6 more than I've heard from other people, like, you
7 know, of wind turbines where ten nautical miles you
8 wouldn't even see anything, but being an avid surfer
9 and on the beach a lot I was quite blown away with
10 how visual they are.

11 Am I against them? No. I think it is a
12 great thing, what you guys are doing. Just I wish
13 more people were here to actually see, I mean,
14 everything from nighttime, daytime you showed, I
15 thought was great.

16 Do I have a different perspective on them?
17 I'm going to say yes. Were they visually appealing
18 to me? Not at all.

19 KEELEY BOGGS: My name is Keeley,
20 K-E-E-L-E-Y, Boggs, B-O-G-G-S; Wilmington, North
21 Carolina. Well, I just want to say that I think all
22 of their media presentations do provide pretty good
23 insight to, you know, what you can expect out of the
24 turbine sites from different distances.

25 I would have to say that I think the ten

1 nautical miles were a little more visible than I
2 thought they would be. I have a feeling that the
3 sweet spot for a lot of people are going to be 20
4 nautical miles, but I also wonder how that will
5 drive up costs as far as wiring. I know that the
6 bigger the wire and the longer a wire when you're
7 talking about electricity, that increases the price
8 of a project. So, that would be one thing, you
9 know, I would be curious about.

10 Let's see; what else? National park or
11 state park? I don't think that -- I don't
12 personally think that the turbines being there would
13 really disrupt my use of a state park or a national
14 park or anything like that. I think I would still
15 use those the same as I always have.

16 Let's see. I think the only other thing I
17 would consider, it would be interesting to get the
18 perspective of businesses, hotels and things like
19 that that are on the beaches; how they think maybe
20 it might affect their tourism and the economy and
21 things like that. It would be, I think, beneficial
22 to get as many of those people in the next meeting
23 as possible. And I guess that's it. Thank you.

24 KEENEN ALTIC: Keenen Altic,
25 K-E-E-N-E-N, A-L-T-I-C. I'm from Wilmington. I can

1 definitely see how, like, at national parks or any
2 kind of state park nighttime viewing was a little
3 more than I thought it would be, but personally it
4 doesn't bother me because I think that wind is a
5 very important resource.

6 I was impressed by the presentations, both
7 night and day presentations. The day presentations,
8 I really don't -- I mean, the daytime viewing I
9 don't think is very bothersome at all, especially at
10 15 nautical miles. Thank you.

11 MICHAEL STOVALL: My name is Michael
12 Stovall, S-T-O-V, as in victor, A-L-L. I currently
13 reside part time in Wrightsville Beach, North
14 Carolina, the other time in Tulsa, Oklahoma. I have
15 become very concerned about off-shore wind, because
16 I think there can be a very negative impact upon the
17 North Carolina coast.

18 I have seen a great deal of the problems
19 that exist in the Gulf of Mexico where they have
20 drilling platforms and so forth and a great deal of
21 steel in the water, and I could foresee this
22 occurring here in North Carolina with the turbines,
23 if the turbines were allowed, and if it became
24 reality that they were built. At this point I would
25 hope that they are not, because I think the beaches

1 are some of the most pristine in the world and we
2 are very fortunate to live near them. I don't think
3 we need to add more and more junk to the ocean.

4 Also, I am concerned about the fish,
5 because of the fact that there will be a great deal
6 of sand that will have to be moved in order to put
7 the turbines in place, because they are going to
8 have to be anchored very deeply. I think that may
9 well change the fish habitats that we've had around
10 here for years and years, which have been excellent.
11 And as of now, those are my very, very big concerns.
12 Thank you.

13 KATHY STOVALL: Kathy Stovall,
14 K-A-T-H-Y. Ditto. We are concerned, too, about the
15 hurricanes that we have and how safe it is to have
16 those huge pieces of metal out in the ocean with the
17 wind and storms.

18 The negative impact of having them out
19 there, you know, interrupting our beautiful view is
20 upsetting. I'm particularly worried about the
21 lighting at night. I just think it's too
22 disruptive.

23 I've read some about the effectiveness of
24 the wind farms, the windmills, and they're really, I
25 mean, when you don't have wind, it's not -- it

1 doesn't work; and when you have wind, they're hard
2 to regulate. So, I think that's about it. Thank
3 you.

4 MOLLY DIGGINS: My name is Molly,
5 M-O-L-L-Y, Diggins, D-I-G-G-I-N-S; Raleigh, North
6 Carolina. So, two or three comments; one is it was
7 an outstanding educational presentation. Two, a
8 recommendation that it be on display in the State's
9 museums, the new science museum in Raleigh, and the
10 State museums on the coast.

11 And the third is that there needs to be
12 clarification on the night sky; that FAA does not
13 regulate beyond 12 miles, because the lighting will
14 not be required beyond 12 miles.

15 And also that there are -- in other
16 countries they use the equivalent of motion sensors
17 with the lights. So, rather than having them on all
18 the time, they only come on if there's a plane
19 flying overhead. So, those are my comments. Thank
20 you.

21 PAULINE ENDO: My real name is
22 Pauline, P-A-U-L-I-N-E, and my nickname is Priss,
23 P-R-I-S-S, and that's what everybody calls me. My
24 last name is Endo, E-N-D-O, from Wilmington, North
25 Carolina.

1 Wonderful visualizations, for instance, I
2 didn't even think about what I would see at night.
3 I support wind power all the way, and I just never
4 thought about the lights out over the ocean. I
5 think probably for the national seashore, because
6 people come there to experience nature in some type
7 of natural form, it might be a little disturbing,
8 but the tradeoff is, you know, getting the -- moving
9 us away from fossil fuels.

10 So, I think this kind of presentation is
11 wonderful and it would be nice if they could take
12 this and put it in the North Carolina Maritime
13 Museums up and down the coast, particularly at Pine
14 Knoll Shores, and I think there's one more north of
15 that, well, and then the Fort Fisher Maritime Museum
16 would also be a good location because that's near
17 Southport.

18 It was very helpful to have not so many
19 people here tonight because I could ask all of the
20 questions I had to the people who are the experts on
21 wind power. And, I don't know, if you put this in a
22 museum setting, I think you would need dozens to
23 help people go through it to really appreciate it.

24 DENNY BEST: Denny, like the
25 restaurant, Best, like the department store, and I'm

1 from Wilmington, North Carolina. Just general
2 feelings; I was very impressed with what you all
3 have done here. It looks like the proper radius,
4 especially with the small simulation ones at the 15
5 and 20 nautical miles, there's hardly anything you
6 could see during the daytime. So, I don't see any
7 physical problems there would be with having
8 off-shore wind turbines here. And I think there's a
9 very minor distraction at night.

10 So, I think all in all it's a good project
11 for North Carolina to involve itself in. I think
12 it's definitely better than some of the other
13 things, such as coal or nuclear power. I think this
14 is a much better prospect at having really good,
15 clean energy and a renewable resource for the State
16 of North Carolina. That's basically what I've got
17 to say. Thank you.

18 PAIGE WOODRUFF: My name is Paige,
19 P-A-I-G-E, Woodruff, W-O-O-D-R-U-F-F. I'm
20 originally from Charlotte, North Carolina, but I've
21 lived in Wilmington for five or six years.

22 For the daytime simulation, I would say
23 that the posters on the wall were my favorite. They
24 were really easy just to walk along and I didn't
25 have to, like, I didn't like using the string and

1 stuff like that. The nighttime visualization was
2 great.

3 In terms of the distance that would be
4 acceptable to me, I think the farther out ones were
5 better, 15 or 20 nautical miles, but I know it's
6 easier the more shallow the water is for them to
7 build the turbines so, you know, whatever is more
8 economical and practical works for me.

9 It doesn't really make a difference to me
10 whether it was at a national park, state park or
11 local community. Probably community would be the
12 best, because then everybody would be seeing it, and
13 I think that the wind turbine is a symbol of hope
14 really or inspiration for us to, like, try to be
15 more sustainable.

16 I would probably like to visit the places
17 where they're built to be honest, because I would
18 want to see them.

19 In terms of continued use, it probably
20 wouldn't make me go more or less to the beach.

21 The nighttime visualization was a little
22 disconcerting. It's not the prettiest thing I've
23 ever seen but, like I said, I would still support
24 off-shore wind, because I feel like it's a step in
25 the right direction to be a cleaner.

1 And let me think if there's anything else.
2 That's it for me. Thank you.

3 UNIDENTIFIED SPEAKER NUMBER 1: The
4 windmills, they need to be there. They don't have
5 to be pretty; they just need to be there. Thanks.

6 UNIDENTIFIED SPEAKER NUMBER 2:

7 Q. Which presentation media do you think best
8 shows how an off-shore wind development would
9 actually look from shore? You might have a
10 different answer for day and night simulations, or
11 different reasons why one is better for some reason,
12 but another better for another reason.

13 A. I think the videos and the panoramic
14 pictures work the best for showing, but all are
15 wonderful pictures.

16 Q. Which presentation media are you more
17 likely to be able to access and properly view? Was
18 it difficult to properly view any of the media? How
19 comfortable are you using each media?

20 A. I was able to access all of them.

21 Q. What is the closest distance (20, 15 or 10
22 nautical miles) to the project that is visually
23 acceptable to you? Is it different for the day and
24 the night? Would it matter if the viewpoint is a
25 national park, state park, or local community?

1 A. Anything is acceptable to me because I
2 would rather see wind turbines than oil rigs.

3 Q. In what ways do you think having off-shore
4 wind energy development will affect your enjoyment
5 of being at a national park, state park, or local
6 community?

7 A. I don't think it would affect it
8 negatively. Again, I'd rather see clean energy than
9 oil rigs.

10 Q. How would views of off-shore wind energy
11 development affect your continued use of a national
12 park, state park, or local community?

13 A. I'd be just as happy to see the wind
14 turbines.

15 DREW HARDIN: Drew Hardin,
16 H-A-R-D-I-N, and I'm from Wilmington. Basically, I
17 am very impressed by this. I think the visibility
18 is not what I expected; it's a lot less. I don't
19 see it as a problem at all.

20 Honestly, I think it would be a great
21 addition to our coast. I would love to see this
22 information, you know, given to people who say it's
23 a huge eyesore, because clearly to me it's not; and
24 I think if people were to see this in this kind of
25 setting, they would agree. Thank you.

1 MANSFIELD FISHER: Mansfield Fisher,
2 F-I-S-H-E-R; Hickory, North Carolina. Let's see; I
3 was kind of surprised by the photos. I thought the
4 wind turbines would appear a lot bigger and I was
5 surprised at how small they appeared. I think
6 that's a good thing, because I think more people
7 will be open to it, because I know a lot of people
8 are worried by how their view shed will be affected.

9 Let's see; what else can I see about this?
10 I mean, it's my personal opinion that these
11 turbines, any loss that's incurred to me by losing a
12 little bit of view is going to be made up a hundred
13 times over by breathing cleaner oxygen in North
14 Carolina thanks to coal not being there.

15 Let's see; you know, I think for me too, I
16 also think it's partially an attraction. I would be
17 interested, if there was a trip to go out and check
18 out the turbines and, like, boat around them and
19 just see how massively huge they are, I think I
20 would find that really interesting.

21 As far as the media presentations, I
22 definitely think the ones, the panoramas where
23 you're sitting down and they're curved, they, like,
24 give you the best perspective of what it would
25 really be like on the beach, so I definitely think

1 that's the best way to show the view.

2 I mean, the closest the project is visually
3 acceptable to me is definitely ten nautical miles, I
4 mean, there's a minute difference between ten and 20
5 miles. You might as well put it closer. It seems
6 to me it would be cheaper. I think that's all.

7 Thank you.

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C E R T I F I C A T E

1
2 I, KATHLEEN TATE, a Registered Professional
3 Reporter and Notary Public, do hereby certify that
4 the foregoing is a true and accurate transcript of
5 the stenographic notes of testimony taken by me at
6 the time, place and on the date hereinbefore set
7 forth.


8 I do further certify that I am neither a
9 relative nor employee nor attorney nor counsel of
10 any of the parties to this action, and that I am
11 neither a relative nor employee of such attorney or
12 counsel and that I am not financially interested in
13 this action.

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KATHLEEN TATE, R.P.R.

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Date: January 17, 2013

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