In The Matter Of:

Coastal Resources Management Council Semi-Monthly Meeting

> Semi-Monthly Meeting November 22, 2022

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Min-U-Script® with Word Index

1 STATE OF RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL IN RE: SEMIMONTHLY MEETING * * * * * * * * * November 22, 2022 Date: Time: 6:00 p.m. Place: Administration Building One Capitol Hill Conference Room A Providence, RI MEMBERS PRESENT Raymond Coia, Chairman Donald T. Gomez Lindsay McGovern Catherine Robinson-Hall Stephen Izzi Ronald Gagnon, DEM Anthony DeSisto, Esquire, Legal Counsel Mark Hartmann, Esquire, Legal Counsel STAFF PRESENT Jeff Willis, Executive Director Kevin Sloan David Ciochetto Justin Skenyon Lisa Turner, Recording Secretary Rebecca J. Forte Court Reporting Certified Professional Court Reporters 33 Rollingwood Drive Johnston, RI 02919 (401) 474-8441 stenorf@qmail.com

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1	(MEETING COMMENCED AT 6:13 P.M.)
2	CHAIRMAN COIA: Good evening, everyone.
3	Thanks for your patience. We waited a little bit
4	because people are coming through security
5	downstairs, and it's my understanding, everyone
6	that wanted to come in is now here.
7	So I will call to order the semi-monthly
8	meeting of the State of Rhode Island Coastal
9	Resources Management Council to order. Today is
10	Tuesday, November 22, 2022. I'd ask that the
11	record reflect the Council members and staff that
12	are present here this evening.
13	We have one matter that's on our agenda,
14	it's a continuation of 2021-07-005, Revolution Wind.
15	But prior to that matter, the first matter on our
16	agenda would be the approval of the minutes of the
17	previous meetings. We have two of them. Tuesday,
18	November 1, 2022, have been disseminated to Council
19	members. I would ask if the members are in a
20	position to make a motion to accept those as
21	presented?
22	MR. GOMEZ: I will accept them and move
23	do you want them one at a time?
24	CHAIRMAN COIA: Yeah, we'll do November 1

1 first. So a motion has been made to accept that. 2 Is there a second? MR. GAGNON: 3 Second. CHAIRMAN COIA: Motion and seconded. 4 Any discussion? 5 (NO RESPONSE) 6 7 CHAIRMAN COIA: Hearing none, all in favor 8 say, "aye." 9 (WHEREUPON, A VOICE VOTE WAS TAKEN) CHAIRMAN COIA: Anyone opposed? 10 11 (NO RESPONSE) 12 CHAIRMAN COIA: That motion carries. 13 (MOTION PASSED) 14 CHAIRMAN COIA: Next on our agenda is 15 review and approval of the minutes of 16 November 9, 2022. I'd ask for a motion pertaining 17 to those. MR. GOMEZ: Move approval. 18 CHAIRMAN COIA: Motion's been made to 19 20 approve. Is there a second? 21 MS. McGOVERN: Second. 22 CHAIRMAN COIA: Motion made and seconded. 23 Any discussion? 24 (NO RESPONSE)

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1 CHAIRMAN COIA: Hearing none, all in favor 2 say, "aye." 3 (WHEREUPON, A VOICE VOTE WAS TAKEN) 4 CHAIRMAN COIA: Anyone opposed? 5 (NO RESPONSE) CHAIRMAN COIA: That motion carries. 6 7 (MOTION PASSED) 8 CHAIRMAN COIA: Any subcommittee reports? 9 MR. WILLIS: Yes, Mr. Chair, there is one subcommittee report. The Planning and Procedure 10 Subcommittee met at its November 15th meeting and 11 12 is seeking Council concurrence to begin rulemaking on a joint regulation change with the Rhode Island 13 Infrastructure Bank and Rhode Island Department of 14 Environmental Management to jointly adopt the 15 Ocean State Climate Adaptation and Resilience Fund, 16 17 commonly referred to as the OSCAR fund. The three parties would be administering 18 19 that fund in a review capacity, primarily being run 20 by the Infrastructure Bank, yet, the three agencies need to promulgate these regulations 21 22 simultaneously. This is CRMC's rulemaking part in that process. So we're just looking for Council 23 24 concurrence to begin rulemaking on that.

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1	CHAIRMAN COIA: So is there a motion from
2	the Council related to that?
3	MR. GOMEZ: I'll move approval on that.
4	I'm on the subcommittee, and I'm very familiar with
5	that, and I think that we should bring it forward
б	since it's ready to be brought forward.
7	CHAIRMAN COIA: A motion has been made.
8	Is there a second?
9	MS. McGOVERN: Second.
10	CHAIRMAN COIA: Motion's made and
11	seconded. All in favor say, "aye."
12	(WHEREUPON, A VOICE VOTE WAS TAKEN)
13	CHAIRMAN COIA: Anyone opposed?
14	(NO RESPONSE)
15	CHAIRMAN COIA: It passes unanimously.
16	MR. WILLIS: Thank you.
17	CHAIRMAN COIA: Any other subcommittee
18	reports?
19	MR. WILLIS: No other subcommittee
20	reports.
21	CHAIRMAN COIA: Staff reports?
22	MR. WILLIS: Yes. There is just one
23	two items on the staff report, Mr. Chair. I
24	mentioned at the last meeting that Water Place Park

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1 was being dredged and overseen by CRMC and the Nature Conservancy. That is going guite well. 2 Α 3 lot of the material has found its way to the south It is being put in those geotextile bags for 4 quay. dewatering, amended while it's being done so. 5 Once it's dewatered, it will be used as construction 6 7 fill material later on in another project on that Right now, the dredging operations have 8 site. ceased for the Thanksgiving holiday. They'll 9 resume again on Monday. 10 11 And then, the one other item is, while we're here for the Category B application for 12 Revolution Wind, we also have the federal 13 consistency review of the larger offshore project 14 for Revolution Wind. 15 As you remember, we had a December 27th, I 16 17 believe, deadline for a federal consistency decision on that, and we and the Revolution Wind 18 19 team have mutually agreed to another stay agreement 20 to have that decision be put off until February. 21 So thank you to the Revolution Wind team for that. 22 That gives us some more time as staff to engage with 23 the Fishermen's Advisory Board, other stakeholders 24 on that particular project over the next couple of

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1 months, rather than having to rush it before the 2 end of December. That's it, Mr. Chair. 3 CHAIRMAN COIA: Any questions of Mr. Willis from Council members before we begin? 4 5 (NO RESPONSE) CHAIRMAN COIA: Hearing none, we will be 6 7 back on the record with 2021-07-005, Revolution Wind. As I indicated, the matter was 8 previously heard here on November 1, 2022. 9 Attorney Robin Main for Revolution, along with 10 11 Attorney Christine Dieter, if I said it correctly. The description of the project has been read into 12 13 the record -- it's lengthy on my agenda -- it's 14 been read into the record. It is part of the 15 application and our record, so I won't reread it in. 16 That's correct, yes. MR. DeSISTO: 17 CHAIRMAN COIA: So, Attorney Main, the floor is yours. 18 19 MS. MAIN: Thank you, Mr. Chair. Good 20 evening, Council members. We appreciate, again, 21 the opportunity to be before you tonight to present 22 the remaining parts of the Revolution Wind 23 application. 24 And what I would like to accomplish

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1 tonight is, if the Council would allow, is to put 2 on our witnesses pertaining to the mitigation 3 requirements under the OSAMP, and then we have two requests for relief, a variance and a special 4 5 exception presumptive approval to also argue. And at some point, I would like to make a very brief 6 7 closing at the close of the applicant's matter. So without further ado, I could call up the first 8 9 witness, if you would like, on the mitigation 10 aspects. 11 CHAIRMAN COIA: Okay. Please proceed. Thank you. 12 MS. MAIN: I'd like to call up Dr. Kite-Powell. And maybe you can guide us on the 13 best spot to stand, if you'd like. 14 MR. MOORE: You can have him stand either 15 right next to the table, or if he wants to sit down 16 17 at the table, he can do that, too. MR. KITE-POWELL: I don't need to sit 18 19 down, but I don't want to block anyone's view of 20 the screen, that's my main problem, and I really 21 don't want to turn my back to anyone either, but I 22 think that may be unavoidable. Sorry. 23 MS. SAVAGE: Oh, you can turn your back to 24 me.

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1 MR. KITE-POWELL: So is it okay if I stand 2 here? Can everyone see okay? 3 Is this okay for you? MS. MAIN: 4 MR. CIOCHETTO: You -- Robin, you may want to move a little bit. 5 MS. MAIN: Does that work? 6 7 MR. CIOCHETTO: That's better. 8 MS. MAIN: Tony, you want to swear in the 9 witness. MR. DeSISTO: I beg your pardon. 10 Please 11 raise your right hand. Do you swear or affirm to tell the truth, the whole truth, and nothing but 12 the truth, so help you God? 13 14 MR. KITE-POWELL: I do. 15 MR. DeSISTO: Please state your name and spell it for the record. 16 17 MR. KITE-POWELL: My name is Hauke Kite-Powell. H-A-U-K-E, is the first name, 18 19 K-I-T-E, hyphen, P-O-W-E-L-L, is the last name. 20 MS. MAIN: Great. Thank you, 21 Dr. Kite-Powell. 22 EXAMINATION 23 BY MS. MAIN: Dr. Kite-Powell, where do you work? 24 Ο.

1	Α.	I work at the Woods Hole Oceanographic Institution
2		on Cape Cod.
3	Q.	And how long have you worked for may I call it
4		Woods Hole for short?
5	Α.	Of course.
6	Q.	Okay. How long have you worked for Woods Hole?
7	Α.	I first came there as a student in 1985, and I've
8		been there full-time since 1992.
9	Q.	And what is your position at Woods Hole?
10	Α.	My title is research specialist in the Marine
11		Policy Center at the Oceanographic Institution.
12	Q.	And could you briefly give the Council a
13		description of your educational background.
14	A.	Sure. I have an undergraduate degree in marine
15		engineering and Naval architecture, and I did
16		graduate work in technology, policy, and economics,
17		and management.
18	Q.	And your Ph.D.?
19	Α.	My Ph.D. is in ocean systems management from MIT.
20	Q.	Great. And prior to joining Woods Hole, briefly
21		describe your professional background, meaning the
22		job you held before Woods Hole.
23	Α.	I have been at Woods Hole really my whole life. So
24		my job before that was student. That's probably

1		the best way to describe it.
2	Q.	And, Dr. Kite-Powell, are you familiar with the
3		project Revolution Wind?
4	A.	I am.
5	Q.	Okay. Have you performed any work for
б		Revolution Wind?
7	A.	Yes, I have.
8	Q.	And please describe briefly and we'll get into
9		more details about the specific nature of the
10		work but just describe, in an overview, what
11		work you've done for Revolution Wind.
12	A.	The work that I did for Revolution Wind, with my
13		colleagues from Woods Hole, is to examine the data
14		on fisheries landed value generated from fishing in
15		and around the Revolution Wind areas and then to
16		estimate what portion of that value in the future
17		might be exposed to the development of that project.
18	Q.	We're going to hear that word, "exposed." Can you
19		just describe what you mean by, "exposed to the
20		project."
21	Α.	Yeah. By, "exposed," I mean the value that may be
22		foregone to the fishing industries as a result of
23		the development of the project. If you assume, in
24		the baseline scenario where the project isn't

1		developed, that fisheries value continues to be
2		generated the way it has been and with the project,
3		there may be some loss of that value, that
4		difference is the exposure, what I call the
5		exposure.
6	Q.	Okay. And is another word for that impact, as
7		well, on the project?
8	A.	You can call it impact, yes. When we use impact in
9		our analysis, we typically mean not just the landed
10		value of the fish but also the induced and indirect
11		economic effects that that landed value generates
12		in the state of Rhode Island, and I'll talk more
13		about that later.
14	Q.	Great. Thank you. And, Dr. Kite-Powell, could you
15		please give the Council a description of the other
16		members of the Woods Hole group who worked with you
17		on the Revolution Wind project.
18	A.	Sure. My colleagues, Dr. Di Jin Di Jin is here
19		with us this evening and Dr. Michael Weir, both
20		also at the Marine Policy Center, worked with me on
21		the analysis directly. Dr. Di Jin is a marine
22		resource economist and has been working at
23		Woods Hole I think almost as long as I have, and
24		Michael Weir is a more junior economist who

1		recently joined us.
2	Q.	Thank you. And so they worked on your the
3		presentation that you're making tonight, correct?
4	Α.	They did, yes.
5	Q.	Okay. And, Dr. Kite-Powell, have you worked on any
6		other wind farm projects?
7	Α.	Yes. We did similar work for the South Fork Wind
8		project, and we are currently engaged in work also
9		for the Sunrise project.
10	Q.	And are you familiar with the area of
11		Narragansett Bay where Revolution Wind will be
12		located, both, you know, the export cables going
13		through state waters and then out to federal
14		waters?
15	A.	I am. Actually, I've been sailing in these waters
16		probably almost as long as I've been working at
17		Woods Hole so I know the area well.
18	Q.	All right. And have you done any work in that area
19		of Rhode Island Sound where the export cables will
20		be located?
21	Α.	Yes, for this project
22	Q.	Right.
23	Α.	I've been working there.
24	Q.	So let's turn specifically to the work that you did

1		for Revolution Wind's analysis of the export cables
2		in state waters in Rhode Island. Did you prepare
3		any written work product?
4	Α.	We did. We prepared a report describing the
5		baseline values that we estimated and the exposure.
б	Q.	Okay. Would you walk us through your report on the
7		baseline values and the exposure as you've defined
8		it previously for Revolution Wind in state waters.
9	A.	Sure.
10	Q.	And I think you've got some demonstratives that may
11		help you with that.
12	Α.	I do. As I mentioned, I worked on this together
13		with Dr. Di Jin and Michael Weir from the
14		Woods Hole Oceanographic Institution. And the
15		fundamental question that we tried to address, as
16		we've already mentioned, is what are the baseline
17		values, the historical values of fisheries
18		activities around the state waters portion of the
19		Revolution Wind export cable and how might those
20		values change in the future with the development of
21		that project.
22		We want to do this analysis in a way that
23		can be replicated by others, and so we want to rely
24		on data that are publicly available, that are

readily accessible. There are two sources of data on commercial fishing that we use. One is NOAA. The other is the Rhode Island DEM. And I'll talk more about both of those.

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We also needed data on for-hire charter fishing in the area, and that information is not available in any publicly accessible data set, so we actually conducted a survey of charter captains to get that information. And as I mentioned, we then took the values that came out of that analysis and estimated the induced and indirect impacts that those activities have in the state of Rhode Island.

And what we mean by that is, if you take 13 the landed value of the fish that are caught in 14 these areas, those fish are brought ashore in 15 Rhode Island. The economic impact of that is not 16 17 just the value of those fish that are landed but also the ancillary activities that are supported by 18 And that includes things like the purchases 19 that. 20 of ice and other expendables by the fishing boats. 21 It includes things like the expenditures that the 22 crew on these boats make in businesses in 23 Rhode Island. All of that is linked to the value 24 of the fish that are landed, and so that's an

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1 important part of the total impact estimation. 2 And once we had the baseline values, we 3 then went through a process of estimating the exposure, looking at construction effects, possible 4 5 effects during operations, and effects during decommissioning of the cable. And I'll talk more 6 7 about each of those. 8 This is the overall project map that I think everyone here is very familiar with. 9 The part that we're concerned with is just this purple 10 11 section of the export cable route in state waters. So this is the state-federal waters boundary. 12 And so our first question is, what are the 13 14 baseline commercial values of fish caught around 15 that cable route in state waters? If you look at 16 the NOAA data, the NOAA data set we were able to 17 obtain is for the entire export cable route. So starting all the way at the project site through 18 19 federal waters and through state waters. And those 20 data suggest that the value of landings around that cable route are something on the average, on the 21 22 order of \$5,000 per square kilometer per year. 23 That's for the entire route in the NOAA data. 24 MR. GOMEZ: Excuse me, but that was per

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1 kilometer or per --2 THE WITNESS: Per square kilometer. 3 MR. GOMEZ: Okay. Thank you. And we believe that that is an underestimate of the 4 Α. value of landings from the state waters portion 5 because the NOAA data doesn't include landings from 6 vessels that carry only state permits. 7 They focus 8 only really on the federal vessel permit landings. The NOAA data are better for estimating landings 9 from federal waters and less complete when it comes 10 11 to state waters. So we looked at, also, data from the 12 Rhode Island Department of Environmental Management. 13 14 DEM collects fisheries data for a large region 15 called Area 539. That's roughly sketched here. And that area includes the cable route, but it also 16 17 includes a lot of other waters. In fact, it extends further to the south than this map does, 18 and it extends all the way up to the northern 19 20 reaches of the bay up here. 21 If you look at that data set, the average 22 value of landings from that entire area is about 23 \$47,000 per square kilometer per year. So ten 24 times the value that the NOAA data suggests for the

cable route. But that's also both for state waters and federal waters in this area. And we think, again, that is likely also an underestimate of the value from the state waters portion of the cable route.

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We think the best way to get at that is to 6 7 assume that the NOAA data are reflective of what's 8 being caught in the federal waters portion of the cable route and then to assume that that value 9 applies to the federal waters portion of Area 539 10 also on a per square kilometer basis, and then 11 calculate from that how much has to come from the 12 state waters portion of Area 539 and the RIDEM data. 13

14 We have to go through this process because, unfortunately, it's not possible to 15 disaggregate the RIDEM data spacially. 16 RIDEM doesn't have information about how that landing is 17 distributed over Area 539. But when we take the 18 19 approach that I've described, we come to a value 20 for landings from the state waters' portion of the 21 cable route of just over \$100,000 per square 22 kilometer per year. And that is the baseline value 23 on which we think these data allow us to settle with some degree of confidence. 24

1 If you then take that per square kilometer 2 value and apply it to the export cable corridor, 3 which we define here as two, 180-meter wide lanes, one for each of the two export cables, you get a 4 baseline estimate of \$1.41 million per year in 2020 5 dollars as the average landed value in Rhode Island 6 7 from commercial fishing in these two corridors over 8 the last ten years or so. And that is what we assume to be the baseline value also for the 9 future, what would continue to happen if the 10 11 project were not developed.

For a wider working area that we define 12 for purposes of thinking about exposure, a 13 14 1.6 kilometer-wide working area around the export cable routes, that value is \$6.28 million per year. 15 And if you include, on top of the 1.4 million from 16 the export cable corridors, the indirect and 17 induced effects in the state of Rhode Island, you 18 have total baseline annual impacts of just over 19 20 \$3 million per year from landings from those export cable corridors. 21

We think this is a conservative estimate because, in reality, the two export cables are not always more than 180 meters apart, and so the

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-	actual area that is affected by the cables is less
2	than what we use in this calculation. So that's
}	our baseline assumption for commercial fishing,
F	about 3 million in annual impacts from the export
5	cable corridors.

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For charter fishing, as I mentioned, there 6 7 is no data set we can refer to. So Revolution Wind agreed to support a survey of charter captains that 8 we conducted from Woods Hole, an online survey, and 9 it allowed charter captains to provide information 10 11 about where they fish in this area and how often. And you can see on this map image some of the 12 fishing locations they've identified in and around 13 the cable corridor in state waters. 14

15 They also provided information about how many people were on those fishing trips. 16 And we have information from NOAA on the average revenue 17 from charter fishing per angler for these 18 So with that and a scale factor that 19 operations. 20 reflects how many total boats we think operate in 21 this area, compared to how many responded to the 22 survey, we can calculate the annual impact 23 associated with charter fishing around the cable 24 routes. And this estimate is actually for the

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1 entire yellow area that you see in this map image 2 So it's a much bigger area than just the here. 3 cable corridors themselves. That total annual impact, including a 4 multiplier of the same sort of induced and indirect 5 effect multiplier as we used for commercial 6 7 calculations, leads to an annual impact from 8 charter fishing, at the high end, of about \$340,000 per year. So that is the baseline annual charter 9 fishing impact we estimate for that yellow area 10 around the export cable. 11 So just to sum up the baseline numbers one 12 more time, commercial fishing Rhode Island landings 13 14 from the state waters' portion of the export cable corridor, about 1.4 million per year, with the 15 induced and indirect effects associated with those 16 landings, it's 3.06 million in economic impact each 17 year in Rhode Island. And, for charter, fishing 18 19 it's about 211,000 in revenue and about 342,000 in 20 total economic impact. 21 So then the question is, if that's the 22 baseline, what fraction of that could we expect to 23 see affected somehow by the development of the

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project? And to estimate that, we consider a

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1	number of different effects. There are effects
2	associated with construction, there are effects
3	associated with operations, and there are effects
4	associated with decommissioning. And I'll talk
5	about each of those in more detail, so I don't have
6	to read this whole table.

7 The work on the export cable is scheduled for a period of about six months, mainly in the 8 second half of 2024. And we assume that, during 9 that work period, there will be two kinds of 10 effects. One is that, in the vicinity of the 11 12 working vessel on the cable route, there will be 13 periods when fishing boats can't access the area in the immediate vicinity of the cable vessel. So we 14 call that access constraint. 15

16 The second effect is that because of the activities of that vessel, some finfish will be 17 displaced from the area. They'll leave because of 18 the vessel activity. And some shellfish may be 19 20 lost to fishing because of the way the bottom is 21 disturbed and the cable is deployed and so on. And 22 so there are two categories of effects. For the first, for that constrained 23 24 access, we assume two things. We assume that

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during the entire six-month window of construction activity for the cable, at any given time, 5 percent of that cable route length is being worked on, and, for a width of 1.6 kilometers across that cable route, that 5 percent area is unaccessible to fishing. That's for a period -- a total period of six months.

8 In addition to that, we also assume that for two months there's effectively no fishing on 9 the export cable corridors, the narrow corridors 10 11 themselves where the cables are. That's probably redundant. I think one could argue that the first 12 effect alone really accounts for all of the access 13 constraint, but as in all cases, we try to be 14 conservative and, if anything, err on the side of 15 overestimating the exposure. So that's the access 16 17 constraint.

For availability, we assume that the shellfish that are in the -- on the bottom in the cable corridors are lost to fishing in the way described here. That is mobile species, like lobster and crab, 25 percent reduced for one year, and nonmobile shellfish for four years because it takes them longer to repopulate. And we also

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assume that, for the entire 1.6 kilometer-wide working area, there's a 10 percent reduction in all landings for one year around the construction period.

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We don't expect any effects during 5 operations because, in our assessment of the way 6 7 the cable is being deployed, fishing should be able to resume normally after construction is finished 8 for the duration of the operation of the project. 9 For decommissioning, we assume a similar set of 10 11 effects as during construction but less severe and, of course, further out into the future, and so the 12 present value of those effects is smaller. 13

14 So if you go through the calculation 15 implied by those assumptions, you get these numbers 16 here. The construction activities result in a loss of landed value on the order of \$854,000. 17 The decommissioning activities add another 112,000. 18 These are both discounted to 2020 dollars from the 19 20 years in which those activities take place. So 21 that's \$966,000 in present value of lost fisheries 22 landings, which translate to 2.09 million in 23 impacts if you add the induced and indirect effect. 24 The charter fishing assumptions here,

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1		based on taking the baseline values I showed before
2		and assuming that those are lost for a period of
3		six months in fact, that's probably an
4		overestimate because the construction activity is
5		mainly in the second half of the year, in the
6		winter, when there is less charter fishing than
7		earlier in the year; but, again, it's a
8		conservative assumption.
9		So the total estimated exposure, including
10		induced and indirect effects, is 2.26 million in
11		2020 dollars. I think that is the last of my
12		slides.
13	Q.	Thank you, Dr. Kite-Powell. Just a few more
14		questions to wrap up. Your report discusses
15		potential impacts to commercial fishing and
16		for-hire charter fishing. Did Woods Hole do any
17		analysis of the private recreational fishing that
18		may be exposed for Revolution Wind? And by,
19		"private recreational fishing," I mean, you know,
20		people going out on the weekend in their own
21		private boat to either fish or do other activities.
22		Was that considered?
23	Α.	Yes, we did think about that as well. Private
24		recreational fishing is important in the state of

Rhode Island, just as it is in Massachusetts and elsewhere around the coast. There are thousands and thousands of private fishing trips that take place every year in these waters, and it contributes to the economy of the state in a significant way.

7 But if you look at the fraction of those 8 thousands and thousands of trips that coincide with the export cable corridor, that's a much smaller 9 And if you then look at the fraction of 10 number. those that are potentially impacted, because during 11 this six-month period, there is a vessel operating 12 somewhere along that route, that number gets very 13 14 small.

And then, it's also the case that the people who maybe wanted to fish exactly where that cable operating boat is on that given day have other places they can go instead. That may not be their preferred choice, but it's not the case that they can't go fishing somewhere else.

And so trying to estimate with any sort of confidence that very small fraction of exposure to recreational fishing, I think is fraught and extremely uncertain. My own estimate is that the

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1 impact of that is far below \$100,000 per year for the state as a whole. 2 3 And does that estimate, of far below \$100,000 per Ο. year, take into consideration at all the time of 4 year when Revolution Wind will be doing its work in 5 the west passage in Rhode Island Sound? 6 7 It does, yeah. And it's mainly in the fall and Α. 8 winter, and so the number of private fishing trips likely affected by that is miniscule compared to 9 the total of trips that take place in Rhode Island. 10 Thank you. And, Dr. Kite-Powell, did you receive 11 Q. any feedback from others in the fishing community 12 to the work that you presented today? 13 14 We did, from several different sources. Α. And I want 15 to acknowledge this because it helped us improve our analysis, I think, in many ways. We had direct 16 17 input from fishermen who we spoke to primarily in telephone interviews. We had very constructive 18 interactions with Todd Gilcoose (phonetic) and 19 20 indirectly with the FAB, in going back and forth on 21 some of the assumptions in helping us improve our 22 estimates. And we had very helpful reviews of our 23 reports by two fisheries experts who are also in 24 the room today, Rob Griffin and Steve Cadrin. And

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1 I think all of that review and feedback really 2 helped us gain more confidence in the work that we 3 represent. 4 Great. Thank you. Q. 5 MS. MAIN: I have no further questions for Dr. Kite-Powell. 6 7 CHAIRMAN COIA: Any questions from Council 8 members of the witness? Mr. Gomez. 9 MR. GOMEZ: That was an eye chart for me. I don't know. I've got 20/15 vision, but I have 10 11 problems with it, I think. We heard at the last session, I believe, 12 that we talked about how quickly the bottom would 13 basically start to recover, and it was a very short 14 15 The way -- the information I get from you is time. that you're considering, I think, a much longer 16 17 time. Do you have any idea on the recovery time that we're talking about? And the other question, 18 how many kilometers of cable are we worried about 19 20 relative to Rhode Island? Is it 23 from the site? 21 What's the --22 MS. MAIN: It's 23 miles. 23 Twenty-three miles? MR. GOMEZ: Yeah, 30-odd kilometers. 24 THE WITNESS:

1 MR. GOMEZ: The other thing, I mean, 2 you've got some big numbers there, and it just 3 seems that, you know, as you're putting this in you've got some speed of getting it there so it's 4 5 only going to be probably a small segment, maybe small, segment of the bottom being disturbed at any 6 7 point in time. And, in my opinion, that would 8 reduce your numbers considerably, but, you know, I'm not ready to think that way yet. 9 I know the fishermen are very upset and things. 10 But between 11 the last briefing we had with the -- you know, the sediment settling pretty quickly and if you've done 12 all the pre-surveys on rocks and submerged objects 13 and things, the numbers just seem very large to me 14 given the actual circumstances. And I don't 15 know -- I guess I'm allowed to talk about 16 17 stipulations or not, am I, in the staff report at this point? 18 19 MR. DeSISTO: It's premature at this 20 point. 21 MR. GOMEZ: Okay. Thank you. 22 If I may just respond THE WITNESS: 23 I think I want to emphasize, again, that briefly. 24 whenever we had a range of values that we thought

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1	were reasonable to consider for example, for how
2	long it might take for an area to be repopulated by
3	lobster or something like that we always tried
4	to err on the side of conservative. That is,
5	overestimating. And so you're right, I think, some
6	of these assumptions about duration are probably
7	excessive; but, again, we tried to err on the side
8	of overestimating exposure.
9	MR. GOMEZ: Okay. You know, I just I
10	was able to follow it along pretty well. I just
11	thought we were getting you were very
12	conservative.
13	THE WITNESS: We tried to be, yes. That
14	was intentional.
15	MR. GOMEZ: Thank you.
16	CHAIRMAN COIA: Any other questions? Yes,
17	Ms. Hall.
18	MS. ROBINSON-HALL: I have a question and
19	just a point of clarification. In your report, on
20	Page 19, you talk about the construction schedule.
21	And it says here it will take place during the
22	third and fourth quarters of 2024. And I think you
23	may have just said before that it would occur in
24	the fall and the winter. So I'm just maybe a

1 point of clarification, I don't know if those 2 are -- I'm pretty sure -- I may have misheard you. 3 Maybe I misspoke, too. THE WITNESS: Fall and winter are not precise terms, but I think the 4 5 precise construction schedule has been spelled out by the project developer, and I believe it begins 6 7 with work sometime in September and extends to So it's more or less the third and fourth 8 January. quarter with a little bit of overlap into January. 9 MS. ROBINSON-HALL: So when you say in the 10 11 report that it will take place in the third and fourth quarters, you're saying now, like, the very 12 end of the third quarter, September? 13 Because I'm just going back to your figure with the seasonality 14 15 question and the seasonality of the highest landings. I just want to understand relative to 16 17 those landings being exceedingly high, in that third quarter in particular and going into the 18 19 fourth quarter, how that factors into your analysis 20 relative to exposure. 21 THE WITNESS: Yeah. So the third quarter, 22 as you note, September is at the end of the third 23 It's really mostly the fourth quarter quarter. 24 that's relevant. So we did not try to estimate the

1seasonal component of the RIDEM data because the2RIDEM data is what we really base our values on3here, and we don't have consistent seasonal4information for that data set like we do for NOAA.5So the NOAA data does have seasonal information.6We think that's mainly relevant for what's going on7in federal waters. And so for the analysis here,8we did not assume any seasonal difference.9MS. ROBINSON-HALL: Okay. Thank you.10CHAIRMAN COIA: Any other questions? Yes,11Mr. Izzi.12MR. IZZI: Yeah, I just want to focus on13your exposure numbers. That's a number that takes14into account the exposure of about 25 years in time15and reduces it to present value 2020 dollars; is16that correct?17THE WITNESS: Yes. It yes. It18discounts the values from the construction year and19the decommissioning year back to 2020 dollars.20MR. IZZI: Okay. There's a big gap in21MR. IZZI: Okay. There's a big gap in22between during that gap of 23 or 24 years. Were		
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	20	That is correct.
22 between during that gap of 23 or 24 years. Were	21	MR. IZZI: Okay. There's a big gap in
	22	between during that gap of 23 or 24 years. Were
23 you assuming that there would be no exposure?	23	you assuming that there would be no exposure?
24 THE WITNESS: That's correct.	24	THE WITNESS: That's correct.

1 Because there was no activity? MR. IZZI: 2 THE WITNESS: There was no activity, and 3 our assumption is that fishing can go on more or less the way it did before during that time period. 4 5 MR. IZZI: So is there any way to break out the initial exposure during construction and 6 7 give us a number for that period and then the --8 and exposure for the decommissioning process? THE WITNESS: So that's what I tried to do 9 So this 854,000 is the exposure associated 10 here. 11 with construction. And the 112,000 is the exposure associated with decommissioning, but they look very 12 different because the decommissioning value is 13 discounted from far in the future to the present 14 dollar. Otherwise, they'd be much closer together. 15 And in the report, we have it broken down in finer 16 detail also. 17 And I just want to make sure, MR. IZZI: 18 19 you're comfortable with the charter fishing value 20 of 340,000 a year? 21 THE WITNESS: Yes, we are. I think that 22 given the area that it reflects, it's a small 23 portion of the total Rhode Island charter fishing 24 And if you look at the information on the extent.

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1	total value of Rhode Island charter fishing, I
2	think that fraction makes sense, generally
3	speaking. But we didn't try to estimate it that
4	way. We tried to estimate it from what the charter
5	captains actually told us they were doing.
6	MR. IZZI: All right. Thank you.
7	CHAIRMAN COIA: Anything else?
8	MR. GOMEZ: Just for purposes of
9	discussion, you know, it's my experience, and I'm
10	very familiar with the Sakonnet River region and
11	the fishermen over there, and they do come over but
12	usually not in the bay here, out at Cox's and
13	things like that, but the whole fishing industry
14	has changed so drastically because of climate
15	change, in the last four or five years even. I
16	mean, lobsters are getting to be nonexistent in the
17	Sakonnet River, and the black sea bass has taken
18	over. And I don't know the commercial value. We
19	do have traps set over there for fish. But I don't
20	think I know you have them off of Newport. I
21	don't think you have any over in that area.
22	So, again, I think it's pretty
23	conservative because I think the fishing with
24	the exception of oysters and, you know, the muscle
1 farms and the kelp farms and those types of farms, which as I look through the material don't appear 2 3 to be that close to where the cable lay is. So, 4 again, I guess, I see it as being conservative. 5 You know, in a 25-year bite, it's just changing so fast, which I'm sure you're aware of. 6 And I don't 7 know what -- the commercial market now is becoming 8 the oysters and the kelp and muscles. And even the muscles have trouble with birds and other things 9 stripping them and storms and things, so I keep 10 getting back to it's really, really conservative, 11 12 what I'm looking at. I would expect you would agree with me because it's to your benefit to do 13 14 that but --THE WITNESS: It is what we tried to do. 15 And I think you're right, it's very difficult to 16 17 try to forecast what the true baseline is for the next 30 years of fisheries landings. 18 19 MR. GOMEZ: It's going to be real big 20 changes. Climate change, fisheries 21 THE WITNESS: 22 management changes, you know, all kinds of things, 23 seafood market. The thing is, the other 24 MR. GOMEZ:

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1	fisheries that are coming in to take the place of
2	what we consider the norm at this point and getting
3	back to things like the kelp farms, and they're
4	coming up with different things that they are
5	trying to farm in aquaculture that we need to have
6	a little foresight in that and try not to ruin
7	those best areas. But I think you're pretty much
8	coming up through the middle of the area there. It
9	looks like it's been mapped out fairly well.
10	THE WITNESS: Yes, I think that's true.
11	If you look at the areas of Rhode Island waters
12	where aquaculture is growing rapidly, this is not
13	in the way of those.
14	MR. GOMEZ: Just an observation.
15	CHAIRMAN COIA: There are no more
16	questions of Council members.
17	MS. MAIN: Thank you. Thank you,
18	Dr. Kite-Powell. We have three more witnesses, two
19	are very short, and then we'll wrap up with our
20	mitigation proposal to the Council.
21	CHAIRMAN COIA: Okay.
22	MS. MAIN: Okay. My partner,
23	Christine Dieter, will present the next two
24	witnesses.

1 MS. DIETER: Mr. Chair, if I may, I'll 2 call our next witness, Dr. Ben Cotts. 3 Please raise your right MR. DeSISTO: Do you swear or affirm to tell the truth, 4 hand. 5 the whole truth, and nothing but the truth, so help you God? 6 7 THE WITNESS: I do. 8 MR. DeSISTO: Please state your name and 9 spell it for the record. THE WITNESS: My name is Benjamin Cotts. 10 11 That's B-E-N-J-A-M-I-N, C-O-T-T-S. 12 EXAMINATION BY MS. DIETER: 13 14 Dr. Cotts, where do you work? Q. 15 I work for Exponent in the electrical engineering Α. and computer science practice. 16 17 Ο. And what's your position at Exponent? I am a principal engineer. 18 Α. Could you briefly describe for the Council your 19 Q. relevant educational and professional background. 20 21 Α. Certainly. I have an electrical engineering degree 22 from the University of Portland, as well as a 23 master's and a doctorate in electrical engineering, which I received from Stamford University. 24 Since I

1graduated and joined Exponent, I have been working2primarily in my area of speciality, which is3electromagnetics. That involves electromagnetic4evaluations from anything from medical devices to5U.S. military and, obviously, electric and magnetic6fields from transmission lines such as the7Revolution Wind project.

8 Prior to joining Exponent, I was an international science outreach manager, and my 9 role there was to support the International 10 11 Heliophysical Year and International Space Weather 12 Initiative, a program sponsored under the auspices of the United Nations and NASA. As part of that 13 project, my role was to help bring the science of 14 electromagnetics to developing countries. 15 And I was cofounder of an international conference series 16 17 with that purpose, and I cofounded that and attended those conferences as an official 18 representative of NASA and the UN. 19 20 Did you perform any work for Revolution Wind? Ο. Yes, I did. 21 Α. 22 Could you describe that work. 0. 23 I performed the electrical engineering Α. Certainly. 24 modeling of the magnetic fields from the export

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1 cable and the inter-array cables from the transmission line. 2 3 What does your modeling involve? Ο. In general, it takes the input data from the 4 Α. transmission line, looking at the cable parameters, 5 the size of the cable, how much current is going to 6 be flowing on the cable, putting that together into 7 an engineering model to calculate the magnetic 8 field levels that are going to be coming from the 9 transmission line, which are measured in units 10 called milliqauss. 11 What did your modeling find? 12 Ο. There are two main findings from the modeling. 13 Α. The first is, intentionally, was that we develop it to 14 15 be very conservative. So the field levels are relatively conservative compared to what would 16 actually be out there. 17 The two evaluations in particular were 18 19 over the portion of the route, which is covered by 20 a concrete mattress. The maximum magnetic field 21 level at maximum loading would be about 22 1,025 milligauss, similar to what Mr. Skenyon cited 23 in the testimony previously. We also did a calculation of the field 24

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1	levels where the cable would be buried to a depth
2	of one meter, which is conservatively low compared
3	to the four to six feet specified for the project.
4	And at that location the magnetic field level was
5	82 milligauss. I bring that up, because as
б	Mr. Skenyon described it in his report, this is a
7	level at which there were a significant reduction
8	in all potential theoretical impacts.
9	The second aspect of the modeling that
10	this showed is that the field levels decrease very
11	rapidly with distance. So that even for this case
12	where you're looking at just a one-foot thick
13	covering of the mattress, by the time you get
14	approximately three to three-and-a-half feet to the
15	side of that of the center of the cable, the
16	field level has decreased from the 1,025 milligauss
17	down to about 82 milligauss, similar to what it
18	would be for the burial case.

One other thing, if you go even further away, as you go about ten feet to the side of the mattress or ten feet to the side of the cable, the calculated magnetic field levels, whether buried to a depth of one meter or covered by the concrete mattress, the magnetic field level is about half a

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		4.
1		milligauss or so.
2	Q.	So if I can recap that. What you first described
3		is when you're at peak loading, which in this case
4		would be about 704 megawatts, and you're right on
5		top of the cable, that's when you're getting that
6		maximum value that you described?
7	Α.	That's correct. And that's also assuming that it's
8		just got the one foot thick mattress covering on
9		top of it.
10	Q.	And whether it's buried or covered by the mattress,
11		once you're about three-and-a-half feet from the
12		center of the cable to the side, you're seeing
13		reduced readings to about 82 milligauss?
14	A.	That's correct.
15	Q.	And then, when you get out to ten feet on either
16		side of the cable, you're saying, at that point,
17		you've reduced it to under one milligauss?
18	A.	That's correct.
19	Q.	And you mentioned before that I think your modeling
20		was intended to be conservative. Are there factors
21		that it didn't account for?
22	A.	Yes. The first aspect is that, as I mentioned
23		before, for the buried portion of the cable, we
24		modeled it at a one meter burial depth to the top

1 of the cable compared to the four to six feet as 2 So that will reduce the part of the project. 3 magnetic field levels over the portion of the cable where it's buried. 4 In addition, there is an armoring around 5 the outside of the cable, a steel armoring, and 6 7 that armoring will, in fact, reduce the magnetic field level from the cable. That was also not 8 included in the modeling. It should reduce the 9 magnetic field of everything I said by about a 10 11 factor of two or so. And then the last aspect, as you pointed 12 out, is that this modeling that was cited was done 13 for the maximum output of the wind farm, the peak 14 15 loading. So every turbine is generating the maximum amount of power all at the same time. 16 17 That's not going to happen most of the time. Α more typical average loading is going to be on the 18 order of 50 to 75 percent of that. 19 20 So if you take that 1,025 milligauss 21 number that I talked about, a one-foot thick 22 mattress, and include these other factors, such as 23 the reduction from the armoring and the reduction 24 from the loading of the cable, you're probably

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1		looking at a maximum number that's closer to maybe
2		250, 350 milligauss compared to that 1,025.
3	Q.	Dr. Cotts, are you able to describe whether the
4		milligauss levels you've just walked us through
5		will affect fish and crustacean behaviors in
6		Narragansett Bay?
7	Α.	That's an excellent question, and as an electrical
8		engineer, I'm not the right person to answer that.
9		Fortunately, my colleague, Dr. Palmquist, has a
10		specialization in that area.
11		MS. DIETER: Mr. Chair, if I may, I would
12		call our next witness, Dr. Katherine Palmquist.
13		And then I can leave them both here if the Council
14		has any questions after she's testified?
15		CHAIRMAN COIA: That's fine. Any
16		questions of Dr. Cotts right now from anyone?
17		MR. GOMEZ: I have some, but
18		CHAIRMAN COIA: Do you want to wait?
19		MR. GOMEZ: I don't know if we need to
20		wait, relative to issues that we just went through.
21		Do you want us to wait?
22		CHAIRMAN COIA: Sure. Let's have the next
23		witness testify.
24		MS. DIETER: If I could have Dr. Katherine

1 Palmquist. 2 MR. DeSISTO: Please raise your right 3 Do you swear or affirm to tell the truth, hand. the whole truth, and nothing but the truth so help 4 5 you God? THE WITNESS: T do. 6 7 MR. DeSISTO: Please state your name and 8 spell it for the record. 9 THE WITNESS: It's Katherine Palmquist, K-A-T-H-E-R-I-N-E, P-A-L-M-Q-U-I-S-T. 10 11 EXAMINATION BY MS. DIETER: 12 Dr. Palmquist, where do you work? 13 Q. I work for Exponent in the eco sciences practice. 14 Α. 15 And what's your position with Exponent? Ο. My position is senior managing scientist. 16 Α. 17 Ο. Could you describe your relevant background for the Council. 18 19 Α. Sure. I have undergraduate degrees in entomology 20 and communications from Washington State 21 University. I did my doctoral research at 22 Oregon State University in ecotoxicology. I have 23 15 years' experience in conducting ecological risk 24 assessments and natural resource damage

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1		assessments, with the past eight years looking at
2		EMF issues.
3	Q.	And are you familiar with the Revolution Wind
4		project?
5	Α.	I am.
б	Q.	Did you work with Dr. Cotts on
7	Α.	I did.
8	Q.	the project?
9		Can you answer the last question I posed
10		for Dr. Cotts, and I'll repeat it for you. Are
11		you able to describe whether the milligauss
12		levels, that Dr. Cotts referred to, will cause any
13		effect to fish and crustacean behaviors in
14		Narragansett Bay?
15	Α.	I can. There are no predicted effects to fish and
16		crustaceans in the bay.
17	Q.	And why is that?
18	Α.	Yeah, so based on all of the available research
19		with AC EMF, the levels modeled by my colleague
20		Ben, do not are not detectible by fish or
21		crustaceans. And this is because these organisms
22		can detect the geomagnetic field, which is static
23		and zero hertz, the same way a DC field is zero
24		hertz. They do this because they have tiny

1		magnetic particles in their bones and organs, and
2		they interact with the geomagnetic field and the DC
3		field, kind of like a compass. So just like you
4		can take a compass out in your neighborhood and
5		walk all under the AC lines and still detect
6		geomagnetic north, the AC fields do not interact
7		with these particles the way the DC fields do. And
8		that's borne out by the research where fish and
9		crustaceans have been exposed to these field
10		levels of around a few hundred milligauss to
11		1,100 milligauss and higher.
12	Q.	You referred to something called, "AC EMF." What
13		did you mean by that?
14	Α.	So the proposed cable for the Revolution Wind is
15		alternating current so it oscillates at 60 hertz,
16		and that's that is a frequency that is not found
17		in nature, whereas the frequency of DC cables is
18		zero hertz, same as the geomagnetic field. So
19		there's a lot of similarities there, and they
20		interact with those particles the same way. The
21		60-hertz fields don't.
22	Q.	So when you refer to the geomagnetic fields, that's
23		referring to DC cables?
24	Α.	Well, it's the field that the earth produces that

1		these fish and crustaceans evolve to detect and
2		help guide migration.
3	Q.	At the field levels we've been discussing, will
4		there be any population level effects to fish and
5		crustaceans?
б	A.	No.
7	Q.	Why not?
8	Α.	So, again, there's no behavioral effects so the
9		distribution will remain the same. There have also
10		been studies looking at effects on very sensitive
11		life stages, primarily the embryonic life stages,
12		and there's no impact on embryonic survival at the
13		field levels predicts, even at peak loading along
14		the cable routes.
15	Q.	Now, the Fishermen's Advisory Board has cited to
16		some articles as part of their comments on export
17		cables. Are you familiar with those articles and
18		studies?
19	Α.	I am.
20	Q.	Are those studies relevant to the Revolution Wind
21		export cables?
22	A.	Not this cable, no.
23	Q.	Why not?
24	Α.	So the publications cited in that report kind of

1		fall into two categories. The first are DC cable
2		studies. And like I said, those are not relevant
3		because of the differences in the nature of the
4		magnetic field and how they interact with those
5		particles. And then the second part were review
6		articles, which are too general for this type of
7		assessment.
8	Q.	So are there any AC or alternating current studies
9		that you would find particularly relevant to the
10		Revolution Wind export cable?
11	Α.	Yeah, there have been a series of studies conducted
12		off the coast of California at 60 hertz AC cable
13		sites. Two studies looking specifically at
14		crustacean behavior relative to the AC cables and
15		one looking at the population of fish,
16		invertebrate, and other marine species along the
17		cable sites.
18		So the first two use caged crab and looked
19		to see whether the crab distribution relative to
20		the cable change and whether they could cross the
21		cable based on the energized state. So these
22		studies looked at anywhere from 400 to 1,100
23		milligauss and found no impact on crab behavior.
24		They were neither more likely to be near the cable

1		or less likely to be near the cable, and they could
2		cross with ease, which led the authors to conclude
3		that there was no effects on trapping.
4		The third study was a multi-year survey of
5		the populations at the cable, looking specifically
6		at whether the energized state of the cable changed
7		the species that were present or the numbers, and
8		they found no effects on any of the fish or
9		invertebrate species.
10	Q.	And are you familiar with the 2006 study of the
11		Nysted Wind Farm by dena that the FAB has
12		referenced?
13	Α.	I am.
14	Q.	And what did that study find?
15	Α.	Well, specifically that study did not find
16		population level effects on the important species
17		that they surveyed at the site. So they went out
18		prior to the construction of the wind farm, took
19		population surveys, and then did that again while
20		the wind farm site was operating. And there was no
21		difference in the catches from prior to after the
22		operation. And they did look at EMF, but that
23		section was entitled, "No Proven Effects in EMF."
24	Q.	So I want to turn a little closer to home now and

1 talk for a minute about the Block Island Wind Farm. 2 You worked on the Block Island Wind Farm project? 3 I did. Α. 4 If you were to hear reports that as soon as the Ο. 5 power was turned on at the Block Island Wind Farm, fishermen couldn't catch fish there anymore, what 6 7 would your reaction to that be? That is not in line with the research that's been 8 Α. conducted there. 9 Can you describe that for the Council, what you 10 Ο. mean by that. 11 Yeah. So there have been population surveys 12 Α. conducted at the Block Island Wind Farm, and 13 similar to the previous studies that I just 14 mentioned, looked at populations before and after. 15 The surveys were also conducted in the vicinity of 16 17 some of the cabling, the areas of high EMF, and there were no adverse impacts of any aspect of the 18 wind farm on the population so they remained 19 20 stable. 21 Ο. And is there any possibility of getting that kind 22 of behavioral effects that I've described of fish 23 fleeing the area entirely from an AC cable? 24 Based on my review of the literature, there's only Α.

1		been one time where a fish has been shown to react
2		to a 60 hertz AC magnetic field, and that was a
3		field level of 1.6 million milligauss generated in
4		the lab.
5	Q.	And how does that level of milligauss compare to
б		what we expect to see at the Revolution Wind cable?
7	Α.	I believe it is somewhere on the order of 20,000
8		times higher.
9	Q.	Is there any possibility of either the Block Island
10		Wind Farm or the Revolution Wind Farm export cables
11		generating 1.6 million milligauss?
12	Α.	No.
13		MS. DIETER: Thank you. I have no further
14		questions for either of these witnesses.
15		CHAIRMAN COIA: Any questions for either
16		witness? Mr. Gomez.
17		MR. GOMEZ: Since you're there, you
18		mentioned that was one of the questions. In fact,
19		this is 60 hertz that we're dealing with.
20		MS. PALMQUIST: Yes.
21		MR. GOMEZ: Is that liable to have any
22		harm on it? I think what I'm hearing you say is
23		that any there's a wide range of frequencies
24		that don't produce a problem basically.

1 MS. PALMQUIST: Yeah. 2 And I didn't know -- I had MR. GOMEZ: 3 somebody approach me regarding harmonics and if they were going to be present. Obviously, it 4 5 depends on whether we have clean signals or not and whether they would have impact. My guess, and what 6 7 I told him was, that since it's higher frequency, 8 it would probably attenuate faster. 9 MS. PALMQUIST: Yeah. And like the research I mentioned off the West Coast, that would 10 11 have incorporated any of that, and there's no evidence that that impacted any of the species in 12 the vicinity. 13 14 MR. GOMEZ: Not to be insulting, but it 15 sounds like you have a reasonable amount of 16 hands-on at sea tests and things? 17 MS. PALMOUIST: No. This is a risk-assessment calculation so it's --18 19 MR. GOMEZ: No, but I mean, your own 20 background, you get to sea often or not? MS. PALMQUIST: Not as much I'd like. 21 22 MR. GOMEZ: I get seasick, so. Underwater 23 is not bad. MS. PALMQUIST: Most of my work has been 24

1 done -- I think the last time I was out it was on a 2 river. 3 MR. GOMEZ: I had a lot of contracts out at the University of Washington --4 5 MS. PALMQUIST: It is great out there. MR. GOMEZ: -- so I'm jealous. 6 At any 7 rate, I'll switch over to the harmonics -- not the 8 harmonics, but at the last briefing we had, I was told there was no shielding. Now you're indicating 9 there is shielding, and it is steel. 10 Is that Is there something 11 steel, in itself, contained? over the seal to prevent, you know, cathodic 12 reactions with the saltwater and stuff? So I quess 13 14 maybe we can wander down that a little bit. 15 MR. COTTS: Yeah, absolutely. So the 16 construction of the cable has three phase 17 conductors that are actually carrying the power. Outside that, there is insulation, and there are a 18 19 couple of additional layers. And, at the very 20 outside of the cable, there is this ring of steel 21 wires that's there for the armoring. And then 22 immediately outside of that is a cross-linked 23 polyethylene or XLPE layer that encapsulates the entire cable. 24

1 MR. GOMEZ: Okay. That clears up some I don't think I've got anything 2 issues for me. 3 Shielding, blah, blah, blah. Okay. else. I'm 4 done. Thank you. CHAIRMAN COIA: Mr. Izzi -- oh, no, whose 5 hand is up? 6 7 MR. IZZI: Katherine's. 8 CHAIRMAN COIA: All right. Ms. Hall. All 9 I saw is a hand. Ron was in the way. MS. ROBINSON-HALL: On the 60 hertz AC 10 11 cables in the case that you referenced in California, what were the cables for in California? 12 13 MS. PALMQUIST: I believe they were going 14 out to some offshore platforms. So they were 15 powering some -- I want to say they were offshore 16 oil platforms. But the frequency is the same, 17 still 60 hertz, and the magnetic fields are the same as what would be produced at the 18 Revolution Wind cables based on the modeling. 19 20 MS. ROBINSON-HALL: In that comparison regarding that, is there a difference in the depth 21 22 of water between there and here? 23 MS. PALMOUIST: Yeah. I don't know off 24 the top of my head. The primary difference is that

1 those cables were not buried. So what they had to 2 look at were was sediment unenergized cables ar 3 energized cables. Because the most significant 4 effect they found is the physical structure	ıd
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5 affected the cable. But when they compared the tw	
6 cables, the energized and the distant unenergized,	
7 there was no effect of those EMF. I do know that	
8 there were similar species. There was the crab,	
9 they had some bottom fish, they had a flounder.	
10 And so it was it was a relatively similar yo	u
11 know, there was some species that were similar.	
12 MS. ROBINSON-HALL: When you say, "the	
13 crab"	
14 MS. PALMQUIST: Rock crab.	
15 MS. ROBINSON-HALL: Rock crab. But the	
16 depth of water would be just incomparable, right,	
17 just relative to the continental shelf?	
18 MS. PALMQUIST: It could be deeper becaus	е
19 the continental shelf is	
20 MS. ROBINSON-HALL: By a wide margin,	
21 right?	
22 MS. PALMQUIST: Potentially.	
23 MS. ROBINSON-HALL: It's pretty	
24 significant.	

1 MS. PALMQUIST: Yeah, it depends on how 2 close to shore they were. 3 MS. ROBINSON-HALL: Does that impact at all with respect to -- it may not be a major impact 4 relative to the impact of that on nonmobile 5 shellfish, but it might on more mobile finfish and 6 7 shellfish; would you agree with that? 8 MS. PALMQUIST: You mean like a depth plus 9 the EMF? 10 MS. ROBINSON-HALL: Yeah. 11 MS. PALMQUIST: No, no. Because they still weren't detecting the EMF at either which 12 13 way. 14 MS. ROBINSON-HALL: But as far as a 15 comparison study for what we might see here --16 MS. PALMQUIST: No. 17 MS. ROBINSON-HALL: -- in a totally different environment with respect to the depth. 18 19 MS. PALMQUIST: No, no. The --20 MS. ROBINSON-HALL: They're completely 21 equal in your mind? 22 MS. PALMOUIST: The detection of EMF is 23 not depth dependent. 24 MS. ROBINSON-HALL: Okay. So depth of

1 water has zero impacts on the impact of EMF on any 2 species? 3 MS. PALMQUIST: That's correct. 4 MS. ROBINSON-HALL: Okay. Thank you. 5 CHAIRMAN COIA: Any other questions? (NO RESPONSE) 6 7 CHAIRMAN COIA: Okay. Thank you. 8 MS. DIETER: All right. Thank you both. Mr. Chair, we have one more witness to call briefly 9 before Ms. Main turns back to the wrap-up witness. 10 11 If I may call Dr. Drew Carey briefly. Sir, please raise your right 12 MR. DeSISTO: 13 Do you swear or affirm to tell the truth, hand. 14 the whole truth, and nothing but the truth so help 15 you God? 16 THE WITNESS: I do. 17 MR. DeSISTO: Please state your name and spell it for the record. 18 19 THE WITNESS: Drew Carey, D-R-E-W, 20 C-A-R-E-Y. 21 DIRECT EXAMINATION 22 BY MS. DIETER: 23 Dr. Carey, you testified at the prior hearing; is Q. 24 that right?

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1	A.	That is correct.
2	Q.	So I'm not going to go into your background again,
3		but just to remind the Council, you're the CEO of
4		Inspire Environmental?
5	Α.	That is correct.
6	Q.	Have you been involved in any survey work at the
7		Block Island Wind Farm relating to concrete
8		mattressing?
9	Α.	Yes, I have.
10	Q.	And what was your survey work involvement?
11	Α.	So we were asked to conduct a survey of the
12		location and condition of the mattressing on the
13		export cable of the Block Island Wind Farm one year
14		after installation.
15	Q.	What was the purpose of that survey?
16	Α.	We were asked to determine whether there was any
17		fishing gear entangled on the mattresses and if any
18		of the mattresses had moved since installation.
19	Q.	What did the survey find?
20	A.	So we used high-resolution seafloor mapping tools,
21		multibeam and side-scan sonar. We had the
22		precision locations of the mattresses when they
23		were put into place. So as they were lowered to
24		the seafloor, the location was marked. So we went

1		back, and we mapped the entire cable. We compared
2		the location before or right after installation to
3		the images, and none of the mattresses had moved,
4		and there was no fishing gear entangled on any of
5		the 49 mattresses.
6	Q.	Did you find any evidence relating to trawling on
7		the mattresses in connection with your survey?
8	Α.	Yes, we did. The same seafloor imagery allows us
9		to see trawl marks that are left on the seafloor
10		during trawling.
11	Q.	And did you see evidence of that on the mattresses?
12	Α.	Well, we saw trawl lines that extended to and over
13		the mattresses in several different locations. So
14		these would have necessarily had to have occurred
15		after the mattresses were put into place since the
16		seafloor had returned. In some cases, we saw
17		sediment that had moved over the mattresses and
18		then trawl marks moving right across them.
19	Q.	I'm going to pull up an image here, and in the top
20		right it says, "BIWF Cable Protection Mat Survey
21		Field Summary Report," and then in the bottom left
22		it says, "Figure 6." Do you recognize this image?
23	Α.	Yes, I do.
24	Q.	What is it?

1 Well, we did a field summary report from this Α. 2 survey that I described. This is one of the 3 figures from that summary report. Let's see if I 4 can get the pointer here. 5 In the upper right there is an inset map of Block Island, the cable, the wind farm is down 6 7 here on this section. So this particular image is 8 coming from one portion of the cable. A little hard to see from over there, but each of these 9 black rectangles represents a location of a 10 11 mattress when it was installed. The red rectangle is this inset here. 12 Each one of those mattresses had a number 13 so they recorded them as they went down. 14 And what 15 you can see on both this side-scan sonar image and 16 this one here are the trawl marks cutting across 17 the cable. There's one up here as well. And you can see that they line up and they come right 18 across a couple of different mattresses. 19 20 So how do you interpret that image, and what Ο. 21 conclusions do you draw from it? 22 Well, in my career of looking at seafloor marks and Α. 23 images, to me this is consistent with a trawl -- a 24 number of trawls coming across this cable without

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1		any interruption. There's no break in the lines.
2		There's a little bit of seafloor sediment on top of
3		this one. But there's no gear entangled, and
4		there's no indication that, in this particular
5		case, they were interrupted.
6	Q.	Dr. Carey, I'm going to switch to some other
7		work that you've done in connection with
8		Block Island Wind Farm. Did you hear my discussion
9		just a minute ago with Dr. Palmquist?
10	Α.	I did.
11	Q.	And I asked her what her reaction would be to
12		reports that, as soon as the power was turned on at
13		Block Island Wind Farm, fish fled the area. Have
14		you been involved in any survey work at
15		Block Island Wind Farm relating to fish populations
16		in that vicinity?
17	Α.	Yes, I have. I designed and managed a seven-year
18		survey at the site. That survey was using
19		commercial fishing gear at the location.
20	Q.	And what was the survey designed to investigate?
21	Α.	So the scientific design was put into place to
22		assess the use of fish at the site of the wind farm
23		site and the surrounding area and to the way we
24		designed it was to distinguish the difference

1		between any potential wind farm effect and the
2		general environmental change that occurs in any
3		part of the ocean over time.
4	Q.	Did your sampling include the cable area?
5	Α.	Yes, it did. So the scientific design was to have
6		an area associated with where the project was going
7		to be built. So we started doing this before it
8		was built. And then two adjacent areas we
9		considered as controlled. Same water depth, same
10		type of bottom. Inside the area around the wind
11		farm, five of the various locations we could tow
12		went directly over cables after they were
13		installed, and in the control areas none of the
14		trawl locations crossed a cable.
15	Q.	What did the trawl survey find?
16	Α.	Well, we found no adverse effect on the abundance
17		of fish throughout the entire survey. The biomass,
18		so that would be the weight of the fish, varied
19		very consistently with regional surveys. So the
20		State of Rhode Island and a national program do a
21		similar kind of study, same kind of equipment, a
22		commercial trawl, and they report seasonal biomass,
23		and the numbers varied very consistently with the
24		regional changes.

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1 So, overall, was your conclusion that there were no Q. 2 significant negative effects to fish and 3 invertebrate from the wind farm? That's correct. It's been published in a 4 Α. 5 peer-reviewed -- three peer-reviewed articles. And we had no evidence that fish disappeared from the 6 7 Block Island Wind Farm as a result of construction 8 or operation. 9 Thank you. Ο. 10 Α. Sure. 11 MS. DIETER: I don't have any more 12 questions for Dr. Carey. 13 CHAIRMAN COIA: Any questions of Dr. Carey from the Council? 14 15 MS. ROBINSON-HALL: I just have a really 16 quick question about if there is any impact 17 relative to the scouring, I mean, around the placement of these concrete pads in terms of 18 sediment scouring? 19 20 THE WITNESS: So the same study and 21 another study that was conducted by a project 22 sponsored by BOEM, we can see evidence of movement 23 of sediment. This is quite common off of 24 Block Island. There's sands and gravels in this

1 You get a storm, they move around. So there area. are areas near the turbines where you see the 2 3 sediment moving around as a result of that. This 4 particular area, which you can see where it's 5 located, we didn't see any scour in that area. MS. ROBINSON-HALL: 6 Thank you. 7 THE WITNESS: Mm-hmm. Yes. MR. IZZI: Doctor, have you conducted any 8 9 studies in your research that found that there was any damage to the concrete mattresses from trawling 10 11 activity? THE WITNESS: I haven't seen that. 12 Т mean, these -- these measurements for seafloor 13 14 mapping might be difficult to see that damage. 15 There were diver surveys conducted at roughly the same time, about a year afterwards. I haven't seen 16 17 any indication that the concrete itself is damaged by trawling. 18 19 MR. IZZI: Okay. 20 CHAIRMAN COIA: Anything else? All right, 21 please proceed. 22 MS. DIETER: Thank you, Dr. Carey. I'11 23 turn it back over to my partner, Robin Main. I would now like to call 24 MS. MAIN:

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1 Mr. Jesper Christensen, please. 2 Sir, raise your right hand. MR. DeSISTO: 3 Do you swear or affirm to tell the truth, the whole truth, and nothing but the truth so help you God? 4 5 THE WITNESS: I do. MR. DeSISTO: Please state your name and 6 7 spell it for the record. 8 THE WITNESS: Jesper Christensen, J-E-S-P-E-R, last name, C-H-R-I-S-T-E-N-S-E-N. 9 DIRECT EXAMINATION 10 11 BY MS. MAIN: Thank you. Jesper, where are you employed? 12 Ο. I'm employed at Ørsted. 13 Α. And what is your position at Ørsted? 14 Q. 15 Senior commercial project manager. Α. And as senior commercial project manager, do you do 16 Q. any work on Revolution Wind? 17 Α. I do. 18 19 Q. Briefly describe to the Council what work you do for Revolution Wind. 20 21 Α. It's a broad role, but primary responsibilities are 22 all aspects of commercial nature within the project 23 development. It also includes, you know, action, 24 discussion, negotiation with external parties,

1including state agencies, the fisheries, ports, etc.2Q. And, Jesper, have you worked on the mitigation3package for Revolution Wind that's here before the4Council tonight?5A. Yes, I have.6Q. Okay. Would you please explain to the Council the7work you have done on this mitigation package to8address the issues here before the Council tonight9on the export cables in state waters, and I think10for ease of response, probably doing it11chronologically would be helpful.12CHAIRMAN COIA: Can I interrupt. Can you13read back the question, please.14(WHEREUPON, THE PENDING QUESTION WAS READ15BACK)16CHAIRMAN COIA: I need to ask my counsel.17I don't think there's a mitigation package before18us this evening, is there?19MR. DESISTO: We don't have a mitigation20package yet.21MS. MAIN: And Mr. Christensen is going to22MR. DESISTO: Okay.			
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24 MS. MAIN: I can certainly rephrase the	24		MS. MAIN: I can certainly rephrase the

1 question, if that would be helpful. 2 MR. DeSISTO: I understand what you put on 3 to this point. 4 MS. MAIN: Yes. 5 And I'm not speaking for the MR. DeSISTO: Council, it's a Council determination, but my 6 7 understanding is that negotiations are still 8 ongoing, so this may be premature. Well, let me address that. 9 MS. MAIN: Based on the work that Woods Hole has done, we have 10 11 met with the Fishermen's Advisory Board and their representatives numerous times. As a result of 12 that, Revolution Wind has made an offer on 13 14 mitigation to the Fishermen's Advisory Board to 15 consider. And since that initial offer was made, 16 there has been considerable back and forth with 17 Revolution Wind and the Fishermen's Advisory Board. And what we intend to show through 18 19 Mr. Christensen's testimony is the progress of 20 those negotiations, the dollar amounts that have 21 been put on, what those dollar amounts represent, 22 and where we are today with that mitigation 23 package. We have not come to -- and I'll conclude 24 after I say this, and certainly representatives of

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1	the advisory board are here we're not here
2	before you tonight with an agreement with the
3	Fishermen's Advisory Board to present. We have not
4	been able to reach agreement.
5	MR. DeSISTO: Yet.
6	MS. MAIN: At this time, that's correct,
7	Mr. DeSisto.
8	MR. DeSISTO: And negotiations haven't
9	concluded.
10	MS. MAIN: Well, we would like to bring an
11	end to negotiations. And I respect the fact that
12	having adequate time to conduct negotiations is
13	very important, and there's been considerable back
14	and forth, but we do want to progress this project
15	and bring it to a vote. And we can't do that until
16	there's agreement on a mitigation number. So part
17	of our presentation tonight is meant to lay out
18	what we have done so far in mitigation.
19	MR. DeSISTO: Okay. I actually have a
20	suggestion right now because I'm looking at the
21	stenographer, and she's been going at it for over
22	an hour and a half now. I'm wondering if she needs
23	a break.
24	COURT REPORTER: I could use a break,

1 Thank you. sure. 2 (BREAK TAKEN) 3 CHAIRMAN COIA: We will reconvene. T'm 4 going to refer to our Attorney DeSisto for a few 5 comments. MR. DeSISTO: Okay. Mitigation is 6 7 definitely one of the issues that needs to be 8 addressed on this, but negotiations are still ongoing on the matter. And it's appropriate, I 9 think, at this time, to have the applicants make 10 11 their argument on the granting of the special exception and the variance. 12 13 The issue of mitigation, I think it's something that if there is not to be an agreement 14 15 on this, that staff would need to take a look and at least make a report out to the Council so an 16 17 appropriate decision can be had. And, of course, we're hopeful that the negotiations, which I 18 19 understand they're ongoing, will, in fact, be 20 fruitful, and there will be an agreement on this. Because we have a limited amount of time 21 22 in this building, I think it's appropriate to have 23 the applicants go forward on the main issues, and 24 we'll save mitigation to the last. And if there is

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1 no agreement, you can certainly make the 2 presentation that you're going to, as well as the 3 Fishermen's Advisory Board can make their pitch, too, and you can decide on that basis. 4 There's one final point. 5 Staff did reference the Section 46-23-1 and the role of the 6 7 General Assembly in approving matters of this I understand that Ms. Main and Ms. Dieter 8 nature. would like to address that issue. I think it's 9 appropriate to do that at this time. 10 11 Thank you very much, MS. MAIN: 12 Attorney DeSisto. And let me say to the Council that we agree that mitigation discussions are 13 14 ongoing. We think that we've made very good 15 progress on the actual claims handling and trust side of it. And so tonight was not meant to jump 16 17 over that in any way or to present like it was a fait accompli. 18 19 So I want to make that clear for the 20 It was to talk about the progression and record. 21 the fact that we have made, with some really 22 helpful input from FAB members, good progress on 23 the trust handling of claims. So I want to make that clear for the Council. 24

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1 CHAIRMAN COIA: Thank you. 2 MS. MAIN: So we had, as we mentioned 3 before, a request for a special exception and also a request married to that special exception that 4 the Council also find that Revolution Wind has 5 rebutted the presumption about the area the special 6 7 exception involves. 8 I find this gets somewhat complicated, but let me try to boil it down. You heard during the 9 November 1 hearing that the Revolution Wind export 10 11 cables pass through approximately 10 percent of the recreational area, of particular concern, in 12 Rhode Island Sound. And that recreational area, of 13 particular concern, relates not to fishing but to 14 15 things like sailboat racing, regattas, and so 16 forth. 17 Under the OSAMP, development in an area of particular concern, which I'll now call an APC, is 18 presumptively excluded, unless the applicant can 19 20 rebut that presumption, overcome that presumption, 21 jump over that presumption with evidence, which is 22 what I am going to go through in a moment.

23And CRMC has also suggested that another24avenue for relief here is a special exception. I

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1	think it could be looked at as a gray area as to
2	whether you should get a special exception or rebut
3	the presumption, and I don't want to have any legal
4	issues arising from this.
5	So I ask that you find that we rebutted
6	the presumption based on what I'm about to argue
7	and that we also deserve the special exception so
8	that there are no issues from a legal standpoint
9	here. The good news is that the evidence that
10	we've put in and that I'm going to briefly recap
11	cover both, so it won't be a long argument.
12	So as to this recreational APC, I want to
13	first address the criteria for a special exception,
14	which you're probably familiar with under the
15	Red Book. And under the Red Book, the Council may
16	grant a special exception for an activity that
17	would otherwise be prohibited if it can meet
18	certain requirements. And those are compelling
19	public purpose that benefits the public, including
20	energy projects. Here we have a renewable energy
21	project.
22	Another element is that it's either a
23	water-dependent activity or a use that generates
24	substantial economic gain to the state. You heard

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from Kellen Ingalls' testimony about the 1 substantial economic gain that Revolution Wind will 2 3 make to the state with the investments and job creation that he put into the record. 4 5 Another element of a special exception is that it's an activity that provides access to the 6 7 shore. Well, here that's really not relevant in This is an offshore wind farm, and the 8 any way. onshore work will not prohibit any access to the 9 shore, and Kellen showed you that shoreline route 10 during his testimony. 11 Importantly, another element of a special 12 exception is all reasonable steps have been taken 13 to minimize environmental impacts or use conflicts. 14 15 Ross Pearsall was here on November 1st and gave testimony about the fact that recreation in this 16 17 area of an APC -- and it's focused on, again, sailboat races, regattas, and so forth -- will not 18 19 be affected because those types of activities 20 either are not occurring during that time of year 21 or frankly, not even in the calendar year that 22 Revolution Wind expects to be out there. Whether 23 it's the Volvo Race, Newport to Bermuda, and so 24 forth.

1 Also, as you heard through several of our 2 witnesses, the construction schedule is such that 3 by the time you get to that southern tip of Beavertail and out into the Sound, it's much later 4 in the year, it's October, November. 5 And Megan Eakin testified to that. So, again, there's 6 7 not going to be a use conflict in this area. And finally, with a special exception, 8 there has to be no reasonable means of serving the 9 purpose described. And here there isn't. 10 The 11 recreational APC goes across the east and west 12 passage of Narragansett Bay. So there's no other route that could be taken to get the cables up, 13 other than going through the east and west passage 14 15 to get where the landing site is. And importantly, the Council should not 16 17 lose sight of, with all due respect, the fact that this cable route is indeed the cable route that's 18 in the Council's proposed cable charter 19 20 regulations. We're following that cable route. So 21 that covers the special exception criteria, and as 22 I just described, we can meet every one of them. In addition, moving over to rebutting the 23 24 presumption. Again, a somewhat awkward phrase.

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1 And I'll try to set forth as clearly as I can what 2 the regulations require. 3 Revolution Wind needs to demonstrate that there are no practical alternatives that are less 4 5 damaging or that the proposed project will not result in a significant alteration to the values 6 7 and resources of the APC. 8 As I explained above, you know, when I was 9 talking about the special exception, we are not going to have any impact on the values of the 10 11 resources of that recreational APC. And I'll also note that the OSAMP gives some latitude as well 12 when it says that underwater cables may be 13 installed within APCs. So the OSAMP recognizes 14 15 that. 16 So based on the evidence that I put before you on November 1 with our witnesses and what I 17 just described with the special exception, those 18 19 same issues carry over to rebutting the 20 Ross Pearsall's testimony about the presumption. 21 lack of these major recreational boating activities 22 not going on when we're constructing, the fact that 23 construction in that area where the APC is located will be much later in the year. And so for those 24

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1	reasons, those same reasons, we have satisfied the
2	requirement to rebut the presumption about having
3	development in that particular APC, and we ask that
4	the Council grant both the special exception and
5	find that Revolution Wind rebutted the presumption
6	against being in that APC.
7	Thank you. And I have nothing further on
8	that issue, unless there are any questions.
9	CHAIRMAN COIA: Any questions from the
10	Council members?
11	MR. GOMEZ: Just
12	CHAIRMAN COIA: Go ahead.
13	MR. GOMEZ: I'm not a lawyer so the
14	difference between the special exception and you
15	were talking about a rebutting presumption, what is
16	a rebutting presumption? See, I'm showing my
17	ignorance.
18	MS. MAIN: No, no, you're not. I find
19	it's an awkward phrasing. So the way I would try
20	to describe it is development in the areas of
21	particular concern in the OSAMP are presumed not to
22	support development for whatever reason. And
23	there's several APCs, right?
24	There's APCs that deal in state waters

1with glacial moraine. That's a totally different2value proposition than what we're talking about3with recreation, and there are others that deal4with shipwrecks, for example. Again, different5value proposition from the others. So they all6have their importance to some degree.7But the OSAMP was, I think, carefully8constructed to not say with APCs, oh, this is a9no-go zone, stay out of it. But what CRMC wisely10did was say, in certain circumstances, if you can11bring the right information before you before12us, we can let you be in it. So you're kind of13rebutting it and saying, no, you can't throw me14out, and I have good reason why you can't throw me15out, and I'm going to prove it to you.16And so that's basically what I've done17here, and what Christine, my partner, and I have18done with our witnesses, is to say here's the19evidence that shows we're not going to impact the20MR. GOMEZ: Okay.21MR. DESISTO: In other words23MR. DESISTO: with an APC, there's a		
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	24	MR. DeSISTO: with an APC, there's a

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1 presumption there's an element there that is not 2 good for the environment. They need to present 3 evidence to say that's not the case. 4 MR. GOMEZ: Okay. 5 MS. MAIN: And as the Council wishes, we have two more arguments, one of which I will make, 6 7 and then Christine will make the other. 8 CHAIRMAN COIA: Okay. 9 MS. MAIN: Would you like me to start the 10 next one now? 11 CHAIRMAN COIA: Sure. So the staff report speaks to 12 MS. MAIN: one stipulation, and it's probably the only 13 14 stipulation with which we have an issue. And that 15 is going to the General Assembly for a submerged 16 land lease. And we've looked at the CRMC enabling 17 act on this issue. And while we certainly always respect the CRMC's position on its enabling act and 18 19 the good work that the General Assembly does, we 20 find that the enabling act, which my colleague is 21 going to bring up on the monitor -- and can we 22 expand that at all? I don't think so, but hold 23 MS. SAVAGE: 24 on, let me try.

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1 If not, I can read it. Yeah, MS. MAIN: 2 So this top line that's highlighted in here we qo. 3 yellow -- and I'll read it because it's pretty short -- it says, the legislature, General Assembly, 4 hereby declares that in light of the unique size, 5 scope, and overall potential impact upon the 6 7 environment of large-scale filling projects 8 involving 25 acres or more, any lease of tidal lands or license to use those lands is subject to 9 the approval, disapproval, or conditional approval 10 11 by the direct enactment of the General Assembly. So the General Assembly has taken to 12 looking at projects of 25 acres or more and 13 14 declaring that's important to the state. We're a 15 small state. That's important. So we're going to need to enact or have special enactments for leases 16 17 and so forth. But that provision is only triggered by filling. 18 19 At the bottom of this particular 20 provision -- if you could scan down to that, Kat, 21 and blow it up a little bit -- there's a definition 22 of fill land, and it means portions of tidal land, 23 meaning land subject to high and low tides and so 24 forth, which have been rendered by the acts of man

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1	to be no longer subject to tidal action. So that's
2	akin to if you've got a piece of property on
3	Allen's Avenue and you want to fill 25 acres or
4	more so that you have more usable land, if you're
5	going to bring that 25 acres or more out into the
6	Providence River, General Assembly wants a say-so
7	on that. That's an important element, right?
8	It seems as though the stipulation is
9	focusing on that. What the stipulation I don't
10	believe acknowledges, though if we could go back
11	to the second, yellow highlighted is like with
12	any law there's always exceptions, right? So in
13	the second, yellow highlighted section and this
14	is in our prehearing filing that we made on
15	October 21st to CRMC. It says, with the exception
16	of any and all projects to fill land of 25 acres or
17	more. All right.
18	So that example I gave you in the
19	Providence River, with the exceptions of those
20	types, the General Assembly recognizes and declares
21	that CRMC is delegated the sole and exclusive
22	authority for the leasing of submerged and filled

So, again, we believe that that exception covers

23

24

lands and giving licenses for the use of that land.

1 our project. 2 Again, we respect CRMC's view of its 3 own enabling work and the good work of the General Assembly, but I certainly did want to note 4 5 this for the record on the CRMC stipulation, which, like I said, I believe that the project, otherwise, 6 7 is in agreement with. 8 And, again, this argument is also within our prehearing filing, and I'm going to conclude on 9 that note, unless there's any questions. 10 11 CHAIRMAN COIA: Any questions from Council members? 12 13 (NO RESPONSE) 14 CHAIRMAN COIA: Okay. There's none. 15 MS. MAIN: Okay. Thank you. And 16 Christine will present the argument on the 17 variance. Thank you, Mr. Chair. MS. DIETER: 18 So in 19 addition to the special exception and finding on 20 the rebuttable presumption, Revolution Wind is also 21 requesting a variance from a limited section of the 22 Ocean SAMP, and that section is 11.9.9. And what 23 Section 11.9.9 requires is that the project collect 24 two years of baseline biological assessments of

1 commercially and recreationally targeted fishing species before construction begins. 2 3 You heard the testimony of Kyle Cassidy last time that the project anticipates that the 4 survey in state waters, the ventless trap survey 5 that he described, will begin in about January of 6 7 2023, and you heard the testimony of Megan Eakin as 8 well that the project expects cable installation to occur in October and November of 2024. 9 And so what that means is that the project expects to collect 10 about one-and-a-half to one-and-three-quarters 11 years' worth of baseline data prior to 12 construction, rather than the two years required by 13 14 the Ocean SAMP. 15 But this request for a variance is really It's narrow because of the difference 16 narrow. 17 between what we expect to collect and the two years required, and it's also narrow because of the 18 19 geographic area that we're talking about. This is 20 a requirement of the Ocean SAMP which covers from 21 the mouth of the Narragansett Bay out to the three 22 nautical boundary of state and federal waters. 23 This requirement is not in the Red Book and doesn't 24 apply to the Narragansett Bay portion of the

project.

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And you also heard Kyle testify that there is preexisting RIDEM survey data that provides a reasonable supplement to the Revolution data that will be collected, Revolution Wind data that will be collected. And that RIDEM survey has been going on for 16 years, and it's collected a wealth of data during that time.

9 It's important to note that the Ocean SAMP 10 allows applicants to include existing survey 11 program data in their baseline assessment. So it 12 is appropriate under the OSAMP for Revolution Wind 13 to incorporate that preexisting RIDEM data within 14 the baseline assessment that the project intends to 15 do.

16 What I'd like to do very quickly is run 17 through the six requirements of a variance and just explain briefly how we've met each one of those. 18 19 The first is that the project -- the proposed 20 alteration conforms with the applicable goals and 21 policies of the Coastal Resources Management 22 And the Ocean SAMP considers underwater program. 23 cables offshore development, and it also identifies the development of offshore renewable energy as 24

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an important policy objective. So we are furthering both of those goals here. You heard Kellen Ingalls' testimony that the Revolution Wind project including these export cables will further these policy goals.

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The second requirement is that the 6 7 proposed alteration will not result in significant adverse environmental impacts or use conflicts. 8 And you have before you the extensive Category B 9 application that Revolution Wind has submitted that 10 11 describes in detail the reasons why the export cable will not result in significant adverse 12 impacts. And this is consistent with the 13 14 conclusions within the staff report that there will 15 not be significant adverse impacts.

16 I'll also note, as Robin did a minute ago, that the cable is located within the proposed cable 17 corridor that the Council put forth in the proposed 18 rulemaking. And just to add a little bit of color 19 20 on that, in the testimony that you heard the other 21 night, Gareth Ellis testified that there will be a 22 target burial depth of four to six feet for the 23 export cable; Megan Eakin discussed the time of year restrictions that will minimize adverse 24

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1	impacts to certain species; and you also heard from
2	Ross Pearsall, and Robin just summarized that the
3	project is going to avoid impacts to recreational
4	boating. And so as a result of all of these
5	factors, the project will not result in significant
б	adverse environmental impacts or use conflicts.
7	The third factor for granting the variance
8	is that, due to the conditions of the site in
9	question, the applicable standards may not be met.
10	This factor is a little bit difficult to apply
11	because we're not talking here about a site in the
12	traditional sense, but bear with me as I try to
13	take you through this.
14	Again, I want to point you to the
15	testimony that Kyle gave last time, that
16	Revolution Wind has partnered with RIDEM for this
17	ventless trap survey in state waters, and it took
18	time to develop that survey. As a result of this
19	partnership between Revolution Wind and RIDEM,
20	RIDEM engaged in extensive outreach with local
21	fishermen to design the scope of the survey and its
22	layout, and this work was critical to ensuring that
23	the survey is appropriately targeted and that
24	stakeholders have faith in the process. And the

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1 project is incredibly appreciative of the efforts 2 that RIDEM has undertaken on its behalf with 3 respect to this survey. So that's one reason that we have this brief delay in getting started. 4 The other is there's supply chain issues 5 beyond RIDEM's control that has delayed in getting 6 7 some of the equipment, specifically some of the 8 pots needed to conduct the survey. So these are the specific reasons relevant to this project as to 9 why we have this brief delay in this instance. 10 The fourth factor is that the modification 11 requested is the minimum variance to the applicable 12 standard necessary. And really we are talking 13 about a minimal variance here. As I said at the 14 outset, we expect to collect one-and-a-half to 15 one-and-three-quarters years' worth of data as 16 17 compared with the two required. So, essentially, six out of eight seasons required. So this is very 18 minimal. 19 20 And I want to emphasize again the 21 wealth of preexisting data that we have from the 22 RIDEM survey that's been going on since 2006. 23 This survey uses the same methodology as 24 Revolution Wind's survey, and in developing the

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Revolution Wind survey, RIDEM itself pointed to this preexisting survey as a reasonable supplement to the proposed Revolution Wind survey.

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I want to also highlight something Kyle 4 talked about last time, which is that RIDEM 5 conducted a power analysis of the proposed 6 7 Revolution Wind survey, and that's essentially how 8 many samples do you need to take in order to get a good survey result. And it's the case that even 9 with this brief delay in getting the survey 10 started, the number of samples that are going to be 11 collected from the Revolution Wind survey 12 significantly outpasses that minimum requirement. 13 So even with this brief delay, there's still going 14 to be more than sufficient sampling data to capture 15 any population changes. 16

The fifth factor is that the requested 17 variance is not due to any prior action of the 18 19 applicant. And I've already touched on this. The 20 brief delays are due to the good work of getting 21 the survey up and running and scoped and the supply 22 chain delays that were beyond anyone's control. 23 And then, finally, the sixth factor is 24 that due to the conditions of the site in question,

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the standard will cause the applicant undue hardship. And in this particular case, requiring Revolution Wind to complete the two full years of preconstruction sampling would cause an undue hardship.

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And here I want to remind you of the 6 7 testimony from Kellen Ingalls from night one. The 8 project is on very tight schedules to meet the milestones established by the power purchase 9 agreements. And if you recall of Gareth Ellis from 10 the other night, the cable lay can't start and 11 12 It has to be a continuous process. stop. So we can't start in one location, collect the data, and 13 then keep going. It has to -- once it gets 14 started, it goes. And so there's a risk here with 15 the time of year restrictions that any delay could 16 17 cause significant impacts because it would cause the project to miss its time of year construction 18 windows. 19

And this hardship is particularly evident where we have such good preexisting data from the RIDEM survey dating back to 2006. Again, this characterizes the entire area of Narragansett Bay, the Rhode Island Sound, and so we have a really

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1	good sense from that preexisting data of fish
2	species distribution throughout this area. And as
3	I said at the outset, the OSAMP allows the project
4	to rely on and refer to that preexisting data in
5	developing its baseline assessment.
6	And so for all those reasons, we do meet
7	those six criteria for a variance, and I would,
8	therefore, ask that the Council grant the project a
9	variance with respect to Section 11.9.9 of the
10	OSAMP.
11	CHAIRMAN COIA: Thank you. Any questions
12	from the Council?
13	(NO RESPONSE)
13 14	(NO RESPONSE) CHAIRMAN COIA: Okay. I didn't see any.
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14	CHAIRMAN COIA: Okay. I didn't see any.
14 15	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you.
14 15 16	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you. CHAIRMAN COIA: Thank you. Anything else,
14 15 16 17	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you. CHAIRMAN COIA: Thank you. Anything else, Attorney Main, on the issue of the variance and the
14 15 16 17 18	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you. CHAIRMAN COIA: Thank you. Anything else, Attorney Main, on the issue of the variance and the special exception?
14 15 16 17 18 19	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you. CHAIRMAN COIA: Thank you. Anything else, Attorney Main, on the issue of the variance and the special exception? MS. MAIN: I believe we've covered them.
14 15 16 17 18 19 20	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you. CHAIRMAN COIA: Thank you. Anything else, Attorney Main, on the issue of the variance and the special exception? MS. MAIN: I believe we've covered them. Thank you.
14 15 16 17 18 19 20 21	CHAIRMAN COIA: Okay. I didn't see any. MS. DIETER: Thank you. CHAIRMAN COIA: Thank you. Anything else, Attorney Main, on the issue of the variance and the special exception? MS. MAIN: I believe we've covered them. Thank you. CHAIRMAN COIA: Okay. So what we are

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1 a favorable one. If not, allow you to -- jump in if I'm misspeaking -- allow you to progress with 2 3 your mitigation arguments and then allow public FAB or anyone to be involved or anyone else that wishes 4 to speak relative to that issue or any other issues 5 that come before us as part of our decision on this 6 7 matter. I'm asking Attorney DeSisto, did I miss 8 anything? MR. DeSISTO: No, that's correct. 9 That would be the public hearing also, public comment 10 11 also on the Category B application. CHAIRMAN COIA: 12 Okay. MR. DeSISTO: And hopefully, the matter 13 concludes at that time. 14 15 CHAIRMAN COIA: All right. Anything else to come before us? 16 17 (NO RESPONSE) CHAIRMAN COIA: So I would entertain a 18 19 motion to adjourn. Did you raise your hand? 20 Excuse me, yes. I'm sorry. MS. MAIN: 21 CHAIRMAN COIA: I saw it peripherally. 22 Good job. What would the date MS. MAIN: 23 for that be? Would that be the next meeting in 24 December?

92 1 MR. SLOAN: December 13th. 2 December 13th is the next MR. WILLIS: 3 hearing date. We do have applications. CHAIRMAN COIA: Yeah, that works. 4 December 13th. It looks like December 13 will be 5 the next date, from what I'm told. With that, I'd 6 7 entertain a motion to adjourn. MR. GOMEZ: So moved. 8 9 CHAIRMAN COIA: Is there a second? 10 MS. McGOVERN: Second. CHAIRMAN COIA: Motion's made and 11 12 seconded. Any discussion? 13 (NO RESPONSE) 14 CHAIRMAN COIA: Hearing none, all in favor 15 say, "aye." 16 (WHEREUPON, A VOICE VOTE WAS TAKEN) 17 CHAIRMAN COIA: Anyone opposed? (NO RESPONSE) 18 CHAIRMAN COIA: Motion carries. 19 20 (MOTION PASSED) 21 CHAIRMAN COIA: Thank you to everyone. 22 Have a safe Thanksgiving. 23 (MEETING ADJOURNED AT 8:28 P.M.) 24

CERTIFICATE

I, Cindy M. Tangney, a Commissioner in and for the State of Rhode Island, hereby certify that the foregoing pages are a true and accurate record of my stenographic notes that were reduced to print through computer-aided transcription.

In witness whereof, I hereunto set my hand this 28th day of November, 2022.



CINDY M. TANGNEY, RMR My Commission (RI) Expires on 06/30/2025

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