For Submission to the Public Record re: Vineyard Wind Connector DRI

May 2, 2019

To the Honorable Chairman and members of the Cape Cod Commission:

Following my respectful reading of the CCC Staff Memo related to Vineyard Wind dated 4-5-19, the Transcript of the Public Hearing on 4-9-19, and the DRI Draft Decision dated 4-26-19, I'd like to make several points regarding the extent to which the CCC has, in this particular instance, accomplished its mission of 'building awareness of the community impacts, and providing the community with a wealth of data and research' relevant thereto.

I respect and honor the worthy intentions of all those who are taking the time to consider this DRI - Commissioners, staff and the public. That said, it is remarkable how the preponderance of staff analysis and public input on the proposal hews hand in glove to the developers' promises, as fully as does the Oak Bluffs [MVY] 8th-graders' letter of support: 'will produce 800MW…, reduce 1.6M tons CO2, …turbines will only look like small smudges, …cable will be at a minimum depth of 5' to prevent "hangs."'

No Fault. No Foul. None of us can hope to have mastered the truths about an infinity of new technologies. But we can focus our common sense on real world data, and give a gimlet eye to the BigWind Emperor - who has held the world in his thrall for the past 40 years. S/He is poised to slip quietly into our fragile ecosystem, decimate a fishing industry which supports 87,000 jobs in MA, send out sickening waves of infrasound to residents, their animals, visitors, and those whose marine environment we are surely charged to protect, increase CO2 emissions along with the use of fossil fuels, cause MA energy prices to skyrocket - with consequent damage to MA industries, jobs, the health and public safety of our citizens. ALL cost. NO benefit. Our decision, informed by the mistakes of others, must surely be not NIMBY but NOWHERE!

Given its mission to review and regulate developments of significant 'size, location, or character which affect more than one municipality,' I plead with the Commission to postpone a vote on this project of unprecedented impact until they have had the time and opportunity to apply the necessary critical thinking to the impartial real world data presented in the attachment to this submission.

NB that this is no traditional entrepreneurial business plan. Rather, the MA Contract requires its tax- and ratepayers to step forward and foot the **$2billion** bill for VW to load their salvage turbine equipment onto ships, cruise west, pile-drive their load into the seabed, and sail away home, leaving unimaginable detritus behind in our precious oceans. [There's the 3,600 FTE jobs: we'll pay folks from abroad to bring over their leftovers, pile drive them in and go home, supposedly leaving 30-40 FTE jobs for Vineyarders….. See how easy it is to slide around in the sewer of what is and isn't said, craft clever implications and make silk of a sow's ear?

Many impartial experts - virtually all passionately volunteering their time to bring truth to power, truth to light - have stepped up in this heart-wrenchingly crucial moment to inform, to explain……Why: No matter what the Climate Challenge, Industrial Wind is not the answer.

The **detriments** of the project to the Cape and Islands, indeed to all of MA, would be of unimaginable magnitude. Such an industrialization of the ocean would transform/destroy the unique Cape and Islands environment, and - YES - you would see them rising up, wheeling in the wind, with their FAA flashing red lights haunting the night sky all the way to your shores and beyond.* **At 795', these turbines reach higher than the 750' Prudential Tower, higher than "200 Clarendon" in Boston - the tallest building in New England.**

[An * herein indicate facts which are supported by objective data (not simply promising computer models) found in the attached 48 annotated submissions to the MVC 's DRI #688.]

Before moving on to considerations yet more specific to the cable, it seems important to note that it is at best disingenuous and surely illogical to claim that only comments specific to the cable/connector/substation… located in the waters of Barnstable county, the landing at Covell's Beach in Centerville and the export cable terminus are relevant to this discussion. Clearly, just as the CCC Staff memos and draft decisions, and the public comment consistently illustrates, the determination of this enormously important Development of Regional Impact is and must be based on benefits/detriments of the "overall energy generation project facilitated by the 'Vineyard Wind Connector Project' under consideration."

VW's **benefits** are non-existent, other than that it 'significantly advances the Commonwealth's renewable energy…policies' (CCC Staff Memo F121. [partial]). The remainder of F121, that 'The Vineyard Wind offshore wind energy generation project, *inclusive of the elements located in federal waters,* provides an opportunity to significantly advance the Commonwealth's… greenhouse gas emissions reduction goals…,' is contradicted by the evidence of real world data.*

The Staff Memo repeatedly defaults to "The Applicant maintains" this or that, thereby including an egregious number of inflated assumptions - or claims absolutely juxtaposed to the truth. For instance, F122: …maintains that "the VW offshore wind energy project ["VW"] "will deliver up to 800 MW of wind energy." No offshore wind installation ever delivers anywhere near its nameplate capacity (in VW's case 800MW). While a good start would come in at 39%, real world data show a paltry 15% average offshore production 10 years out.*

F118: '…will help alleviate price volatility': False.* '…will reduce reliance on fossil fuel generation': False.* F124: '…will reduce CO2 emissions': False.* F125: '…will reduce costs': False.* (See attached, and particularly for these latter two items, see #8 H Parker 2019-02-26 2 w Attach: Visuals shown and distributed at MVC DRI #688 Public Hearing 2–21–2019:

1. Retail Electricity Price Comparison (¢/kWh)
2. Electricity Costs as a Function of per Capita Installed Renewable Capacity (Scatterplot)
3. Germany vs France CO2 emissions 2016.

Note that were South Australia [the "Wind Capital of the World"] placed on the Scatterplot, with its highest retail electricity cost in the developed world and y of 934 kilowatts/capita installed renewable capacity, it would cluster with Denmark and Germany.

The crux of the NOWHERE argument - easily digested with less than an hour's attention to a 5th-grade-science level explanation of the physics of industrial-scale wind,* is that there is NO benefit to welcoming 84 795' tall towers left over from when Spain (Iberdrola) and Denmark (CIP) were installing them - hauled along with their miles and miles of cables - to our shores, where they may achieve the usual production numbers of offshore wind installations: 39% output when first up and running, 15% output after 10 years.* When obsolete and useless, who will get rid of them? Where will they go?



And ahead of that question: what happens if something goes very obviously very wrong? How will we stop the assault? Who will we turn to? Who will pay?
We know too little about the impact of infrasound on marine life, but what we do know urges extreme caution.*

Looking again at Benefits/Detriments: F39. "The Ocean Resources goal of the RPP is to protect, preserve, or restore the quality and natural values and functions of ocean resources. …

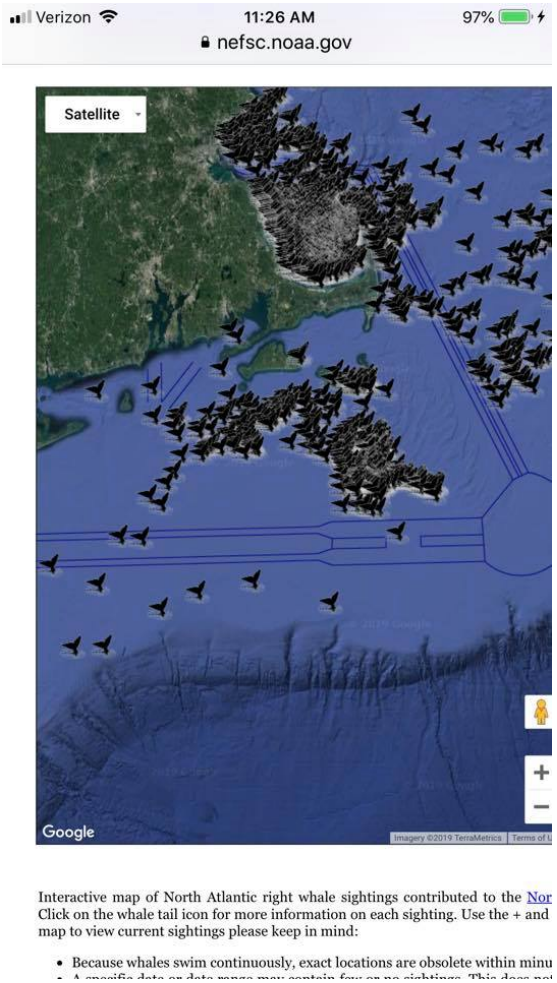
to: locate development away from sensitive resource areas and habitats (OR1); preserve and protect ocean habitat and the species it supports (OR2); and protect significant human use areas and vistas (OR3)." *And the findings are…?*

F50. "Whales, particularly North Atlantic Right Whales, have a very limited presence within the Project area and no core habitat for North Atlantic Right Whales is present in the Project area." What "Project area" is being referred to here? Certainly the Whales are all over the area of the proposed IWTs; the cable is designed to run within a few hundred yards of the designated Right Whale Habitat area off Martha's Vineyard. At right is an interactive NOAA map of whale sightings in early 2019.*

F56. "…it seems unlikely that the cumulative impacts of ocean-based development will degrade ocean habitats and human use areas within the Project area post-construction." Really?! Again, how delimited is the "Project area"? In any case, see below re Block Island Cable failure and imagine Covell's Beach in place of the BI Town Beach. Five years of equipment and activity beachside trying to tame the cable from the largest offshore wind installation in the world?

F75. "…The Open Space objectives that are applicable and material to the Project are to: protect and preserve natural, cultural, and recreational resources (OS1)." (See above.)

Turbulence - which de-stabilizes the structures themselves, scours the ocean floor with severe impacts on marine life* - increases as turbine size increases. So does the infrasound emitted.



VW is consistently [proudly?] described as "the first large-scale offshore wind energy project in the US." In fact, **this** *first phase of the already- auctioned 1,400 square mile buildout* - this 800MW array, covering a mere 250-square-miles, would be **the largest offshore wind installation IN THE WORLD.***

We know conclusively the devastating impacts of infrasound on human health.* Infrasound has been measured up to 56 miles *across land* from a *96MW* wind array in NM.* Objective expert testimony tells us that infrasound from the size and power of the proposed, unprecedented array 15 miles from Martha's Vineyard and Nantucket ***will be*** experienced there.* Will residents and tourists feel it on CCod? Good question.

Back to the cable - to the risks of this project, and to the attitude of the Applicant to concerns once-permitted. At the 2-21-19 MVC Public Hearing on their DRI#688, the Applicant focused on cable burial as assuring safety. No mention was made of difficulties with cable burial on the nearly three year old 30MW Block Island installation. I brought those difficulties to the attention of the MVC, the MVTimes and the MVGazette on 2-24. Further submissions to the MVC detailed and elaborated on the problems. To date, none of the permitting agencies nor the local media has appeared to care.

And now in the CCC staff memo, F46, and also in the Draft Decision, #54, we read: "Given the proposed burial of the majority of the offshore export cables to a target depth of approximately 5-8 feet below the ocean floor, the post-construction impacts from cable installation on ocean resources and pre-existing human activities are anticipated to be temporary and minor." Again: Five years of equipment and activity on and around Covell's Beach trying to tame the cable from the largest offshore wind installation in the world?

The letter/CCC submission from Wayne Kurker of Hyannis Marina re the 30MW Block Island Wind farm's continuing 3-year failure to adequately bury its sea-to-shore cable was a welcome breath of reality-based fresh air: "VW repeatedly confirmed that there was no chance of their cable becoming exposed or creating an electric shock. I think it is very safe to assume that the people who ran the cable into Block Island said the same thing."

Kurker suggests that "the CCC needs to be extra vigilant with VW **by putting a condition in their permit**…. bury their cable much deeper below the sea floor."

'..fishermen dragging between VW's turbines and Covell Beach…. could pierce the cable insulation if the cable gets close to the surface like in Block Island.' '**CCC needs to ensure public safety** on our beaches and beyond. **CCC needs to make a serious request**… **to insist that cabling be buried deeper** than proposed.'

Fresh as is Kurker's input, those who have followed the wind industry's reign know how absolutely ineffectual such conditions, serious requests, and insistences will always and forever be. Once permitted, these things go rogue. On the one hand, those who have the power to step in don't (witness the Falmouth tragedy), and on the other, the disaster is simply too large to contain; the damage is done. (The Cape and Island shores covered with the carcasses of the last of the Atlantic Right Whales is far too easily imagined). Lastly, life-and-death consequences will simply be ignored by those who pocket the millions and billions from this industry, whether or not it is even producing any energy at all…..

See the <3-minute trailer for the 2010 movie Windfall: https://www.youtube.com/watch?v=cBYjZG8O6qE
@1.50 "How could you expect that when a program of this magnitude - which could be $75-100 million - that they're going to compassionately feel bad for me or for you?"
@2.17 "Ask Questions, do your homework. Because once you let these guys in, your world is going to change forever, and there's not a thing that you're going to be able to do about it."

Look at the **8-8-18 BITimes** report: '**RICRMC..is requiring**…a quick solution, an immediate resolution…, taking this very seriously, pushing NG to implement measures asap.'

Four months later, **12/13/18 BITimes** report: 'A survey is being conducted to determine a solution to prevent two of the BIWF's transmission system cables from remaining exposed.'

"**There has been an issue of improper burial depth with National Grid's sea2shore cable since it was installed in June of 2016**. The subsea cables…were intended to be buried four to six feet beneath the seabed when installed, but after Grid's technicians encountered hard seabed off Town Beach they were unable to meet the burial depth requirement in that locale….

"New Shoreham **town officials have insisted** that National Grid and Ørsted implement a long-term solution to mitigate cable exposure at the beach."

Now see **4/25/19 BITimes**: "There will be a field of buoys off the Town Beach this summer, and possibly next summer, as National Grid determines a plan for reinstalling a section of its exposed cable. An early estimate to reinstall the cable is about $10 million…. the cable installation could occur in the **fall of 2020**. As for who will pay for the installation, Roberge said he would "defer to National Grid" to answer that question."

Please just say "NO" to the Vineyard Wind Connector DRI. Thank you.

Helen Schwiesow Parker, PhD
Licensed Clinical Psychologist
Chilmark, MA

*Annotated SpreadSheet: Submissions to the Record re MVC DRI #688 Spring 2019 - Experts Advise Caution re Vineyard Wind Proposal

	Note that clicking on the underlined item in this column brings up the submission itself on MVC website	
1	• DRI 688 Vineyard Wind Correspondence J Riggs Parker 2019-03-27	Restore protections of Public Trust Doctrine/do not allow the industrialization of our fragile Oceans with IWTs which will struggle to last 20 years.
2	• DRI 688 Vineyard Wind Correspondence J Boone 2019-03-12	***Warren Buffett: 'tax credits are the only reason to build wind projects.' ...Wind technology masquerades as a competent source of electricity so that corporations with a lot of taxable income but high tax obligations...can generate massive profits via tax avoidance. Vineyard Wind is essentially a financial docking operation ...Profits could approach 30% on investment, guaranteed by government. Vineyard's owners—Spanish Iberdola and Danish Orsted—... have been trying to unload their outsized dysfunction to the US for the better part of a decade, since neither Spain nor Denmark want any more wind installations (the industry torpedoed the Spanish economy a decade ago and has overwhelmed the Danish countryside for a generation). Because of the volatile nature of wind performance, the more wind, ...the more need for fossil fuels. ...Note that these "equity partners" are suffused in fossil fuel projects. They realize wind will both enhance those projects and perversely give them PR cover. All part of a massive bi-partisan dive to the bottom... Allowing global corporate hucksters to foul the region's nest, exploiting the desire to improve the environment while seeking approval to wreck it, ...[is a policy of fools....]
3	• DRI 688 Vineyard Wind Correspondence H Parker 2019-02-26 1 Attach rev 03-11	***Visual comparisons of BOEM MVY/ACK VisSims v. truth of what naked eye sees, +regional turbine size comparisons, +reality check of Bourne turbine intrusion, Falmouth victim noise 'journal'
4	• DRI 688 Vineyard Wind Correspondence B Durkin 2019-03-07 2 partners	Who is VW? "Should VW, by past actions of its corporate partners, be reasonably expected to extend public or environmental benefits?": "...exploitation and social dumping practices that, if carried out in Denmark, would carry a custodial sentence." 'Iberdrola chief says global renewable sector facing Enron-style endgame.' 'Iberdrola is the target of multiple fraud and corruption cases across Europe, according to CT's Public Utilities Regulatory Authority, with millions of dollars in fines, tens of millions in proposed fines and a worldwide ban on World Bank financing. LINKS.
5	• DRI 688 Vineyard Wind Correspondence S Wylie 2019-03-09	***Vinalhaven, ME victim describes lies in proposal, health issues, a community torn apart. "This [80+ turbine] project is insanity..., sending infrasound across the water into your homes. Do your homework and make sure you really understand the impact of such a tremendous wind turbine installation on the ocean, on wind currents, fisheries, migrating birds, and islanders. Please, do not forget your community members who will have no choice but to try and sell the homes they love or to live day in and day out with the consequences of the choices you make.
	WHY WIND WON'T WORK	
6	• DRI 688 Vineyard Wind Correspondence J Boone 2019-03-07	laws of physics: unpredictable, unreliable, diffuse, need 100% (inefficient) backup, insecure
7	• DRI 688 Vineyard Wind Correspondence H Parker 2019-03-27	***3-21-19 MVC presentation to public hearing: VW benefits? None: Skyrocketing power prices, Costs covered by MA tax-/ratepayers; BigWind the opposite of energy conservation, results in >fossil fuel consumed and >CO_2 emissions. Actual output of offshore turbines declines from 39% to 15% after 10 years.... BOEM VSs: how trust anything in their EIS? Blackouts due to wind in the energy portfolio. Time to re-direct into R&D. Invite to clinical study, n=10,000++ .....on the health impacts of infrasound should the MVC vote yes. I pray we never go there. 10 LINKS to the literature.
8	• DRI 688 Vineyard Wind Correspondence H Parker 2019-02-26 2 w Attach	price comparison and as function of per capita renewable energy + CO_2 Germany v France
9	• DRI 688 Vineyard Wind Correspondence S Lange 2019-03-13 NA PAW	***NAPAW: cable issues, jobs, marine creatures, massive structures, de-commissioning
10	• DRI 688 Vineyard Wind Correspondence H Parker 2019-03-15	***Wind before storage=<fossil fuel use, <CO_2emission, <Cost. 5th-grade science explains WHY. Output is NEVER 100% (VW's 800MW figure). Actual offshore output goes from average of 39% initially to 15% in 10 years. Battery performance: real world illustration. Spot pricing spikes from $40/Mwh to $14,500/Mwh. Power price hikes force households to go without power entirely. 4 LINKS
	BLOCK ISLAND CABLE FAILURE (June will mark 3 years they've been trying to get them buried right.)	4/25/2019 BITimes update "Grid to deploy buoys, again, and maybe again." Re-installation may be attempted in Fall of 2020.
11	• DRI 688 Vineyard Wind Correspondence H Parker 2019-02-26 3 w BI Times Exposed Cable	***BI cable still exposed: improper burial depth since installed in June of 2016
12	• DRI 688 Vineyard Wind Correspondence M Stamos 2019-03-12	***Block Island wind farm is experiencing high voltage cable exposure, never yet buried as permitted, [yet] no mention of this in either local paper. 2012 BOEM report: mid-size IWTs visible @ >26 miles
13	• DRI 688 Vineyard Wind Correspondence F Haggerty 2019-03-05	MA poor history re underwater cables [Boston Harbor/BI]; MA failed history BigWind:2000MW=120
14	• DRI 688 Vineyard Wind Correspondence B Durkin 2019-03-12	***IWTs corroding at sea w/in few years, Cable failure = >70%" of offshore wind ins claims @ $6.5M each. Tax shelter. Industry gets 40%>$ when switched off than when producing electricity. Iberdrola chief forecasts Enron–style endgame.' 6 LINKS
15	• DRI 688 Vineyard Wind Correspondence S Lange 2019-03-17	***offshore wind tanks in Europe; developers to sell to the US. Germany's BARD1! Riffgart failed cable=$$ because "seabed is riddled by old WWII munitions, to be removed before repair work can start." Stray munitions from Nomans' bombings relevant here? US subsidy$ going overseas?
16	• DRI 688 Vineyard Wind Correspondence B Durkin 2019-03-07 Trans Cable	70% [/80%] offshore wind projects' insurance claims are for cable failure with average costs of € 5 million per repair. Hx of attempts to bury BI cable: 'plans to relocate or replace" the cables following nearly 3 years of failure. Links to FAILURE OR WEAR AND TEAR IN EUROPEAN OFFSHORE': 'Vattenfall to dismantle the Yttre Stengrund in Swedish waters after only 13 years of operation. "Only one in (5) turbines is currently operational."'
	MARINE ENVIRONMENT Including Fisheries and Endangered Species	
17	• DRI 688 Vineyard Wind Correspondence J Levesque 2019-03-18 4 EMF	95-page research report re EMF in Dutch North Sea: See 2-page ExecSummary:Offshore Wind Farms cables generate electromagnetic fields (EMFs) and induced electric fields (iEFs) in the marine environment. The impact of these electromagnetic fields on the marine ecosystem is largely unknown.
18	• DRI 688 Vineyard Wind Correspondence B Durkin 2019-03-21	compromised health and safety of fishermen... anticipated by the chairman of the RI's fisheries, Lanny Dellinger, who predicts loss of life.
19	• DRI 688 Vineyard Wind Correspondence B Brady 2019-03-18	Offshore Wind Turbines:Impacts on Marine Life and Habitat from pile driving, dredging, jet plowing, "Scour," EMF and magnetic fields, 700,000 gallons oil at VW site alone, vulnerable to turbine malfunction where fish, right whales and other marine mammals congregate, and where fishermen catch sustainable species.
20	• DRI 688 Vineyard Wind Correspondence N Pierpont PhD 2019-03-18	ILFN impact on fish and other marine life
21	• DRI 688 Vineyard Wind Correspondence J Worthington 2019-03-27 (1)	environmental concerns
22	• DRI 688 Vineyard Wind Correspondence F Haggerty 2019-02-24	How project might impact whales is a "hard question to answer."
23	• DRI 688 Vineyard Wind Correspondence A Britton 2019-03-25 with attachments	3 LINKS re offshore turbines a bad mix with wildlife and marine life
24	• DRI 688 Vineyard Wind Correspondence J Leveseque 2019-03-18	***from Long Island Commercial Fishing Association: install noise up to 220db can maim/kill fish, Thanet scour, EMF affects migration, food sourcing; 700K gal oil onsite, Right Whale sightings in the area since January 1, 2019 Multiple LINKS!!
25	• DRI 688 Vineyard Wind Correspondence to BOEM from NOAA	***statements re scale of impacts for biological and socioeconomic resources not well supported,' 'potential impacts to biological resource not fully evaluated or analyzed, e.g. Habitat Areas of Particular Concern (HAPC) for juvenile Atlantic cod: (the cable route runs directly thru this sensitive habitat.) Impacts re displacement of fisheries? Safety/collision potential for commercial fishing? Concern that pile driving analysis is insufficient, and cumulative impacts analysis is too narrow.
26	• DRI 688 Vineyard Wind Correspondence M Ottens-Sargent 2019-03-28	voltage thru cable may be as much as 40 times > than existing cables and may be detrimental to marine ecology: proceed with caution
27	• DRI 688 Vineyard Wind Correspondence J Levesque 2019-03-18 DMF to Nan CC	MA DMF to ACK ConComm includes numerous 'shoulds' re the Benthic Habitat Monitoring Plan which ignore the basic reality that once in, no one is going to make these guys adjust anything for the good of the locals, or the sea..... Muskeget Channel is utilized by many marine fisheries species: squid, river herring, shad, sea herring, striped bass, lobster, Jonah crab, horseshoe crab, and conch. Muskeget Channel is a major thoroughfare for many migratory fish and marine mammals, including endangered turtles.
28	• DRI 688 Vineyard Wind Correspondence R Strayton 2019-03-22	***turbine design inadequate for local wind velocities and icing; insidious pollution; hazard to navigation, to passage, to anchoring; hazardous to endangered Right Whales/sea turtles, protected seals/sharks, avian migration. ILFN effect. We pay 30% so developer profits. Not where we started.
29	• DRI 688 Vineyard Wind Correspondence J Levesque 2019-03-18 3 NMFS comments	***NMFS reiterates significant issues noted also in 2-22-19 re mitigation measures related to marine mammals and fishing activities

30	• DRI 688 Vineyard Wind Correspondence B Funfar 2019-03-11	Corrosive salt water, much higher maintainance expenses, ILFN travels even greater distances over water, unknown potential adverse effects on fish/ocean organisms, hopeless intermittency of wind power, hidden costs resulting from government subsidies
	INFRASOUND AND LOW FREQUENCY NOISE ("ILFN") Impact on Humans/Animals	Most vulnerable are children, elders, and those who are especially reactive to sensation - those with a prior PTSD, autism, abuse victims, ...and many who prefer the world of nature to the assault of an industrial setting.
31	• DRI 688 Vineyard Wind Correspondence S Ambrose 2019-03-06	INCE Bd Cert, Emeritus: '45years' experience conducting environmental sound measurements and implementing noise and vibration control.... I learned to respect unknowns... Biggest unknowns from large wind turbines are the strong infrasound waves that can adversely affect about one-third of the population. Infrasound can propagate miles with minimal atmospheric attenuation. Acoustic investigators have measured wind turbine infrasound over flat ground at distances beyond 25 miles emitted from large wind facilities operating smaller turbines. VW's 84 turbines are >4-5-times bigger than those at Plymouth/Bourne and Falmouth. Larger turbine blades will produce even stronger infrasound waves.
32	• DRI 688 Vineyard Wind Correspondence H Parker 2019-02-21 Prepared Remarks at P.H.	***LINKS to documentation on infrasound, also re Industry deceptions, 96MW array measured to 56 miles
33	• DRI 688 Vineyard Wind Correspondence H Parker 2019-03-28	March 2019 video from upstate NY w/ many industry specifics + theme: the truth of what was coming was kept tightly under wraps, just like here.
34	• DRI 688 Vineyard Wind Correspondence C Devlin 2019-03-13	Irreversible pericardial thickening in both people and animals is the hallmark of Vibroacoustic Disease, caused by long term exposure to infrasound.
35	• DRI 688 Vineyard Wind Correspondence C Sands 2019-03-26	Bourne victim on the truths of wind power
36	• DRI 688 Vineyard Wind Correspondence J Boone 2019-03-26	links to 3-part Life Under a Windplant youtube series
37	• DRI 688 Vineyard Wind Correspondence A Lawrence 2019-03-16 w Attach	***Jerry Punch, PhD Audiologist Letter to the Ohio Power Siting Board re WTS***
38	• DRI 688 Vineyard Wind Correspondence J Worthington 2019-03-27 (3)	Fairhaven wind victim Karen Isherwood's story
39	• DRI 688 Vineyard Wind Correspondence M Wexler 2019-03-28	link to thoroughly discredited 2012 MA DEP/DPH IWT Health Impact Study. The 3-16-12 MVC comments on the study, directed to then Commissioners Auerbach and Kimmell, described it as a "useful, though limited, literature review...[which] could lead to misinterpretations that understate the actual or potential health impacts of wind turbines.... In the absence of definitive studies clearly indicating the absence of significant impacts, the Martha's Vineyard Commission suggests that the Commonwealth of Massachusetts...apply the Precautionary Principle, which states that if an action or policy has a suspected risk of causing harm to the public or to the environment, in the absence of scientific consensus that the action or policy is or is not harmful, the burden of proof that it is not harmful falls on those taking the action...."
40	• DRI 688 Vineyard Wind Correspondence James and Patricia Rogers 2019-03-05	...residents of good will welcomed the turbines until they were turned on. Consult impartial acoustic experts. Once wind turbines are erected, they are not readily taken down.
41	• DRI 688 Vineyard Wind Correspondence J Worthington 2019-03-27 (2)	drawing by Sophia Hartke, Illinois, 'we moved into a mobile home because we couldn't sleep.'
42	• DRI 688 Vineyard Wind Correspondence Dr W Klug 2019-03-08	***ILFN, industrialized landscapes, ice throw, undependable and intermittent wind = continuous (inefficient) backup needed, >CO_2, all cost/no benefit
43	• DRI 688 Vineyard Wind Correspondence B Janssen 2019-03-19 with attachements	***Waubra victim: "we must go beyond the poverty of imagination that promotes Industrial Wind as one of the only alternatives." + link to Persson Waye (Sweden), 'Effects of low frequency noise,'*** + personal testimony*** at NHMRC (Australia) Forum on Wind Farms and Health.
	APPROVAL PROCESS	
44	• DRI 688 Vineyard Wind Correspondence J Levesque 2019-03-06	Wind power permit approvals consistently premised upon serious errors, omissions and misrepresentations of fact, and professional cautions routinely ignored by permitting authorities
45	• DRI 688 Vineyard Wind Correspondence Oak Bluffs 8th Graders 2019-03-21	***CC and 3,600 FT jobs! "will produce 800MW..., >1.6M tons CO_2, ...turbines will only look like small smudges, ...already four other cables... cable will be at a minimum depth of 5' to prevent "hangs." Their evidence? The Applicant's claims.
46	• DRI 688 Vineyard Wind Correspondence J Levesque 2019-03-07	compartmentalized tunnel vision (e.g., cable only) degrades ability to grasp the entirety of a project's impacts
47	• DRI 688 Vineyard Wind Correspondence J Levesque 2019-03-06 2	lack of comprehension by decision makers as to the true impacts [of infrasound].
48	• DRI 688 Vineyard Wind Correspondence F Haggerty 2019-03-23	Direct Current cables appear to provide the most efficient technology to access all of the lease areas with the smallest environmental footprint.