

Breton, Mary B

16

FOAA 31

**From:** Littell, David P  
**Sent:** Thursday, February 12, 2009 12:25 PM  
**To:** Brooks, James P; Severance, Ronald W; Fisk, Andrew C; Cassida, James  
**Cc:** Boutilier, Lynn A; Garrett, Deborah N  
**Subject:** FW: Wind Turbine Points  
**Follow Up Flag:** Follow up  
**Flag Status:** Red  
**Attachments:** Wind Turbine Points 02 11 09.doc

Jim and Andy, you can see I sent Andy's comments to CDC this morning but asked for 48 hours to make finer revisions if any. So please look at the document again to see if we would suggest any further revisions – and get anything further (as redlines on top of Andy's redline) to Lynn by end of business tomorrow (friday).

Jim/Ron, if you have better information on the avoided pollutants, we can provide. If not, we should look at the NRCM numbers enough to validate or not given that Dr. Mills specifically asked us if we have better numbers. I know this is not what we regularly do.

Thanks.

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**From:** Littell, David P  
**Sent:** Thursday, February 12, 2009 8:58 AM  
**To:** Mills, Dora A.; Harvey, Brenda; Green, Geoffrey; Martins, John A; Kerry, John; Farmer, David W; Ende, Patrick  
**Cc:** Fisk, Andrew C; Garrett, Deborah N; Brooks, James P  
**Subject:** RE: Wind Turbine Points

Attached are quick comments and suggestions on the draft document (which is very good for a quick draft). Our Air Bureau can not validate the NRCM numbers on such a short time frame, but Andy Fisk has been able to look at the noise pieces and has provided suggested edits. Given your tight time schedule to get the information back to the reporter we wanted to provide you with these immediate suggestions. We recommend giving us 48 hours to do a fine read of the document if you intend to release the document itself or post in anywhere.

Thank you for pulling this summary together on such a short timeframe.

David Littell

---

**From:** Mills, Dora A.  
**Sent:** Wednesday, February 11, 2009 1:57 PM  
**To:** Harvey, Brenda; Green, Geoffrey; Martins, John A; Littell, David P; Kerry, John; Farmer, David W; Ende, Patrick  
**Subject:** Wind Turbine Points  
**Importance:** High

Attached is a rough draft of a Q&A I drafted to answer the questions that the Sun Journal is asking in response to the Rumford Hospital's medical staff letter calling for a moratorium on wind turbines until further research delineates and mitigates health effects. I've pasted the medical staff's letter below this email. I do not find evidence to support their conclusions, and I state that in the last question in the FAQ. There are no firm statements I could find from non-industry sources stating there are no adverse health effects from wind turbines, but that would be true of most

I did not state this in the Q&A, but unless DEP rules have been recently updated and are not online yet, there may be room for improving the noise rules for developments to take in account wind farms. The last time these rules were updated appear to be 1989. Massachusetts has rules that take in account the change over ambient noise levels rather than a level cap. And, there are some proposals from Canada that take into account low frequency noise emissions. However, that said, I am not a noise expert and Maine is fortunate to have statute and rules on noise levels in place, given that many states do not. I will send my findings under separate a cover to Commissioner Littell on this matter.

Please review the enclosed Q&A and provide any feedback. I started working on this very early (2 am) today, and have also been busy doing other things, so I'm sure it needs some refinement. The reporter wanted to talk with me today or tomorrow, so if I can get feedback on this by late today or early tomorrow am, that would be great, and at least I can use this as my speaking points.

Also, I did not spend much time in the Q&A writing about the medical staff's sources of information, but I did check them out, and can tell the reporter, as I did yesterday (I had checked a few out early yesterday morning after reading the email from Dr. Aniel) that they are not from peer-reviewed studies. Most of the information was not from legitimate sources, though some were and had misinterpreted.

Thank you! Dora

## Health hazards Generated by wind turbines

As members of the Rumford Community Hospital medical staff we endorse the concept of alternative energy including but not limited to wind turbines.

As wind turbine generated power has been introduced on an industrial level around the country as well as in the world, there is literature emerging worldwide expressing a multitude of side effects affecting those who live, work, attend school in the vicinity of wind farms.

These health hazards include problems arising not only from the audible noise frequencies but also from inaudible low frequency noise waves.

There are growing scientific observations and studies suggesting that some people living within 2 to 6 miles of these industrial "wind farms" area affected at a variety of levels from a variety of symptoms.

In light of these growing serious medical concerns we propose a moratorium on the building of any such "wind farms" for at least a year and possibly longer until more research is being done on the public health impact that such facilities can and will have on a segment of the communities surrounding such technology.

The Medical Staff of Rumford Community Hospital

**Breton, Mary B**

**From:** Littell, David P  
**Sent:** Sunday, February 22, 2009 6:03 PM  
**To:** Garrett, Deborah N; Fisk, Andrew C  
**Subject:** Fw: Wind Turbine Editorial

**Attachments:** Wind Turbine Points 02 15 09.doc



Wind Turbine Points  
 02 15 09.d...

Deb, let's discuss after you review.

David Littell, Commissioner  
 Maine DEP  
 Via Blackberry

----- Original Message -----

**From:** Mills, Dora A.  
**To:** Kerry, John; Littell, David P; Farmer, David W; Harvey, Brenda; Green, Geoffrey  
**Sent:** Sun Feb 22 17:58:34 2009  
**Subject:** Wind Turbine Editorial

I'm glad to help address the issues raised in the Sun Journal editorial last Thursday, pasted in below. I do not think there is sufficient evidence at all that this needs to be studied (the proponents of the moratorium do not cite credible studies or grossly misinterpret credible studies). ( There is evidence that turbines should be built at an adequate distance from houses to avoid annoyances from the noise and vibrations. I've attached the latest draft of the Q&A/fact sheet I've been developing on the topic. Just let me know what I can do to help. Dora

[http://www.sunjournal.com/story/304299-3/OurView/A\\_case\\_study\\_for\\_windmills\\_and\\_health/](http://www.sunjournal.com/story/304299-3/OurView/A_case_study_for_windmills_and_health/)

A case study for windmills and health

Thursday, February 19, 2009

Of course windmills are dangerous. If one of those turbine blades comes unbolted during a gale, for example, it could boomerang around the whole territory and cause awful carnage.

We're kidding. Maybe if Stephen King were writing a new wind turbine-themed thriller set in rural Maine, that would be his plot. The more possible, yet unproven, dangers from windmills come from their operation, and whether unforeseen health effects could stem from it.

The medical staff of Rumford Hospital has voiced its health concerns about windmills, as turbine projects spring up all around them like tulips. There's Record Hill in Roxbury and now Black Mountain in Rumford, for starters. More are sure to come.

Dr. Albert Aniel has led the scrutiny. His concern is straightforward - there have been plenty of things we, as a culture, thought were health-harmless, only to later discover there were dangers that could have been avoided. History tells us this is a salient point.

Breton, Mary B

**From:** Littell, David P  
**Sent:** Thursday, February 12, 2009 4:13 PM  
**To:** Mills, Dora A.; Harvey, Brenda; Green, Geoffrey; Martins, John A; Kerry, John; Farmer, David W; Ende, Patrick  
**Cc:** Fisk, Andrew C; Garrett, Deborah N; Brooks, James P  
**Subject:** Wind power pollutant reductions

Dora, here is the answer on the pollutant reductions we've checked NRCM's statement that generating 5% of the electricity in Maine from wind power would reduce CO2 emissions by 480,000 tons, SO2 by 1,680 tons, and NOx by 1,152 tons, they are close for CO2, but off for SO2 and NOx (of course it does depend on which sources of power generation are replaced by the wind power). DEP engineers calculations based on the following:

DEP's air bureau engineers have checked the NRCM generated figures.

Our annual reductions would be as follows:  
 CO2: 464,520 TPY vs. NRCM's 480,000 TPY  
 SO2: 252 TPY vs. NRCM's 1,680 TPY  
 NOx: 147 TPY vs. NRCM's 1,152 TPY

The on-peak marginal emission rates represent the energy weighted average emission rates of generating units in New England that typically would increase their output when the energy demand increases. These units are referred to as "marginal fossil" units that are fueled with oil (including distillate, residual, diesel, and jet fuel) and/or natural gas. These are generally the higher cost power generating units that are called upon to operate because the lower cost units are already operating, so these marginal emission rates are probably reasonable to use when determining what type of power generation and associated emissions would be replaced by new wind power.

Maine generates about 16.8 million MW-hrs of electricity annually.  
 5% of this would be 840,000 MW-hrs.

The New England on-peak marginal emission rates are as follows:  
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 SO2: 0.6 lbs/MW-hr  
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We are still having our licensors who deal with noise standard details review the talking points in detail.

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**Breton, Mary B**

FOAA 35

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**Subject:** FW: references and peer review relating health hazards generated by wind turbines  
**Follow Up Flag:** Follow up  
**Flag Status:** Red  
**Attachments:** pierpont-healtheffects-20050301.pdf; committee\_siting\_of\_windfarms location-location.doc; Dr Amanda Harry study.doc; Todd et al, Human vestibular system & low frequency vibration 2008.pdf; committee\_vibroacoustic\_disease.doc; kamperman-and-james-9-pp.pdf

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I've included the documents Dr. Aniel is circulating to the MMA membership. I will also work on an op ed piece these next few days. I thought I'd also email the MMA the fact sheet I did on this topic, so I'd appreciate any feedback on that -- let me know if you'd like me to resend it.

Thank you! Dora

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**From:** Kellie Miller [mailto:kmiller@mainemed.com]  
**Sent:** Tuesday, February 24, 2009 6:23 PM  
**To:** Charles Danielson, MD; David Clark, MD; Mills, Dora A.; Lani Graham, MD; Lisa Letourneau, MD; Amy Madden; Andrew MacLean; Arvind Patel, MD; Barbara Wirth, MD; Daniel Oppenheim, MD; Douglas Boyink, MD; Edward Walworth, MD; Erik Steele, DO; Gordon Smith; Gregory D'Augustine, MD; Jacob W. Gerritsen, MD; James H. Maier, MD; James Schneid, MD; Jeff Benson, MD; Jo Linder, MD; John Garofalo, MD; Julian Kuffler, MD; Kellie Miller; Laura Blaisdell, MD, MPH; Lee Ann Baggott MD; Lynnette Nichols; Mitchell Ross, MD; Norma Dreyfus, MD; Richard Evans, MD; Robert Holmberg, MD; Robert McAfee, MD; Ronald Blum, MD; Stephanie Lash, MD; Stephen Sears, MD; Tim Goltz, MD; William Strassberg, MD  
**Subject:** FW: references and peer review relating health hazards generated by wind turbines

Dear Public Health Committee Members - in regards to following up from today's meeting on wind turbine health effects, Dr. Aniel has provided me with the following information for your review. He has agreed to formally present on this subject matter at our next meeting on March 25th, 4-6pm. I look forward to having you with us as we learn more about this emerging issue.

Regards,  
Kellie

*Kellie P. Miller, M.S.*  
Director of Public Health Policy  
Staff Liaison, Maine Radiological Society & Maine Urological Association



Maine Medical Association  
30 Association Drive, P.O. Box 190  
Manchester, Maine 04351  
Office: 207-622-3374, ext. 229  
Cell: 207-462-5713  
Fax: 207-622-3332  
[kmiller@mainemed.com](mailto:kmiller@mainemed.com)

24

FOAA 39

*Kellie P. Miller, M.S.*  
Downeast Association of Physician Assistants  
Staff Liaison  
30 Association Drive, P.O. Box 190  
Manchester, Maine 04351  
Office: 207-620-7577  
Fax: 207-622-3332  
[deapa@mainemed.com](mailto:deapa@mainemed.com)

*"There's more to see than can ever be seen,  
more to do than can ever be done." (From the Lion King)*

-----Original Message-----

**From:** athos [mailto:[athos@wildblue.net](mailto:athos@wildblue.net)]  
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**To:** Kellie Miller  
**Subject:** references and peer review relating health hazards generated by wind turbines

Hi Kellie  
Here are some references but another good and inclusive web site which includes WHO recommendations is:[www.windturbinehealthhumanrights.com](http://www.windturbinehealthhumanrights.com) ( the bible of references covering multiple studies).  
Also Dr Pierpont's [www.windturbinesyndrome.com](http://www.windturbinesyndrome.com) and [www.wind-watch.org](http://www.wind-watch.org)  
Let me know if you got this and if further information is needed for now.  
What I have sent you covers pretty well all the issues  
Albert Aniel MD

Your message is ready to be sent with the following file or link attachments:  
pierpont-healtheffects-20050301  
committee\_siting\_of\_windfarms location-location  
Dr Amanda Harry study  
Todd et al, Human vestibular system & low frequency vibration 2008\_pdf  
committee\_vibroacoustic\_disease  
kamperman-and-james-9-pp

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25

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**Breton, Mary B**

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**To:** Fisk, Andrew C  
**Cc:** Boutilier, Lynn A  
**Subject:** RE: references and peer review relating health hazards generated by wind turbines

It would greatly help me if sooner than later someone sent me a brief update on how DEP is addressing the noise issues. Wasn't there a task force last year? Aren't there revisions to the rules or how they're carried out you're considering or implementing? This issue seems to be gaining traction....

Thanks! Dora

---

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Dora,

I talked with David this morning. I take it you will be presenting at MMA on 3/25. I will try and talk with you early next week, as we have a pending conversation with our peer reviewer about aspects of our noise rule that you should be aware of in this conversation.

We will get you the minor edits to your piece asap.

Please let me know if this timing doesn't work for your conversations with MMA. I want to be sure your statements and conversations follow what our peer reviewer is presently thinking. We're talking with him today and will likely want to set up something for either you or a delegate on this to discuss with us jointly next week.

Hope you're feeling better.

**Andrew Fisk**  
 Bureau Director, Land & Water Quality  
 Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

---

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10/16/2009

helpful.

FOAA 41

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[kmiller@mainemed.com](mailto:kmiller@mainemed.com)

*Kellie P. Miller, M.S.*

Downeast Association of Physician Assistants  
Staff Liaison  
30 Association Drive, P.O. Box 190  
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10/16/2009

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**Attachments:** Wind Turbine Points 02 15 09.doc



Wind Turbine Points  
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Edits and comment attached.

Andrew Fisk  
 Bureau Director, Land & Water Quality  
 Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

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Please review for final comments and coordinate your redlines with Deb and Lynn so we send back one version.

Last week BLWQ's edits were made but BAQ's were missed by CDC because (my fault) we sent over separately due to press of time.

Lynn, please send Jim Brooks my email to Dora et al with final air edits which I cleaned up before sending on. Thanks!

David

David Littell, Commissioner  
 Maine DEP  
 Via Blackberry

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**To:** Littell, David P; Fisk, Andrew C  
**Sent:** Thu Feb 19 06:55:14 2009  
**Subject:** Wind Turbine

The wind turbine noise and health issue keeps arising. The Maine Public Health Association has been contacted for their opinion, etc. Attached is a revised version of the Q&A I quickly developed last week. I'd appreciate any further review or suggestions on this. I'd like to be able to provide it as a resource to those interested in this

topic. Thank you! Dora

79

FOAA 44

**Breton, Mary B**

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**From:** Boutilier, Lynn A  
**Sent:** Tuesday, March 03, 2009 1:46 PM  
**To:** Fisk, Andrew C  
**Subject:** Wind Turbine Points revised 2-26-09.doc

**Attachments:** Wind Turbine Points revised 2-26-09.doc



Wind Turbine Points  
revised 2-...

31

FOAA 46

**Breton, Mary B**

**From:** Mills, Dora A.  
**Sent:** Thursday, March 19, 2009 5:33 PM  
**To:** Fisk, Andrew C  
**Subject:** RE: Wind Turbine

These are great edits, esp the ones on the LFN. Thank you! Dora

**From:** Fisk, Andrew C  
**Sent:** Thursday, March 19, 2009 5:30 PM  
**To:** Mills, Dora A.  
**Subject:** FW: Wind Turbine

Take a read through my suggested edits that get to the recent work we've done with the consultant. If its not clear, give a call and we can chat. 592-0327 is my direct line.

**Andrew Fisk**  
 Bureau Director, Land & Water Quality  
 Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

**From:** Mills, Dora A.  
**Sent:** Thursday, March 19, 2009 1:11 PM  
**To:** Fisk, Andrew C  
**Subject:** Wind Turbine

<http://web.mit.edu/aeroastro/partner/reports/proj1/lfreport-2007-001.pdf>

Next Wednesday afternoon is the discussion at the Maine Medical Association on wind turbines. There are two physicians promoting the moratorium – Dr. Aniel from Rumford and a radiologist from Fort Kent (forget his name, but he's been in the papers on this issue). Angus King will be there as well as myself. This meeting doesn't usually attract too many, but with Angus' appearance, who knows. If you or the noise consultant want to attend, I believe that's fine. It certainly seems like things have ratcheted up a bit!

I'm including the revised FAQ attached, which includes your edits (thank you!) as well as a bit more info. After reading a bit more, including the airport study linked to above, I can see why the consultant and you were discussing how the A filter does not reflect the full impact of LFN.

Are there any updates that I should know about before this meeting – updates about any review of the rules, etc?

Thank you so much! Dora



32

FOAA 47

**Breton, Mary B**

**From:** Mills, Dora A.  
**Sent:** Thursday, March 19, 2009 5:34 PM  
**To:** Fisk, Andrew C  
**Subject:** RE: Wind Turbine

And, just to clarify, adding the requirement for the dBC measurement is being done within the existing rule?

**From:** Fisk, Andrew C  
**Sent:** Thursday, March 19, 2009 5:30 PM  
**To:** Mills, Dora A.  
**Subject:** FW: Wind Turbine

Take a read through my suggested edits that get to the recent work we've done with the consultant. If its not clear, give a call and we can chat. 592-0327 is my direct line.

**Andrew Fisk**  
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**Subject:** Wind Turbine

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Are there any updates that I should know about before this meeting – updates about any review of the rules, etc?

Thank you so much! Dora

33

FOAA 48

**Breton, Mary B**

**From:** Mills, Dora A.  
**Sent:** Friday, March 20, 2009 3:37 PM  
**To:** Fisk, Andrew C; Littell, David P  
**Subject:** Wind Turbine Research  
**Importance:** High

I was contacted by Peter Rabinowitz, MD, who is an Associate Professor of Medicine at Yale School of Medicine as well as the Director of Clinical Services in Occupational and Environmental Medicine at Yale, and specializes in health issues related to noise. As you can see from Yale's website (<http://www.med.yale.edu/intmed/faculty/rabinowitz.html>) he has an impressive track record of conducting peer reviewed original research, including many that were federally-funded.

He is interested in applying for a NIH grant to study health effects of noise related to wind turbines. He'd like to use the Mars Hill community as one of the sites to study. We just talked at length by phone, and his take on the situation is that the increasing expressed concerns about noise and health effects related to wind turbines, especially as they relate to low frequency noise, needs to be addressed with some non-biased research.

I shared with him the FAQ that I wrote recently and that Andy has helped me with. He asked if I would write a letter of support for the grant application. He's going to send me a brief description of it in writing, but it sounds like the kind of research we'd want to support? I'd like to write a letter of support, but certainly would not want to do so without your okay. He is including a community participation component, a focus on the 18 families living within ~half mile, and a measurement piece taken in each season of the year and including some low frequency noise (dBC) measurements. This will go through Yale's IRB.

I told him that Andy is really the person he should be in contact with, and he is eager to talk with you. The grant application is due April 1<sup>st</sup>, so he's eager to connect, though will need to connect more thoroughly if it is funded.

His email address is: [Peter.Rabinowitz@yale.edu](mailto:Peter.Rabinowitz@yale.edu)

His direct line # is: 203-785-7267

Thank you! Dora

**Breton, Mary B**

**From:** Littell, David P  
**Sent:** Friday, March 20, 2009 4:27 PM  
**To:** Mills, Dora A.; Fisk, Andrew C  
**Subject:** RE: Wind Turbine Research

Dora, more data and analysis by a world-class expert can only help. The issue for me is whether Mars Hill is the best site since already evaluated by our expert and the companies. We are putting special conditions for additional monitoring into the permits we are considering now and one of those two sites or both may be better or good for additional data. Andy, any thoughts on which site?

Certainly we can support the NIH grant application.

David

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**From:** Mills, Dora A.  
**Sent:** Friday, March 20, 2009 3:37 PM  
**To:** Fisk, Andrew C; Littell, David P  
**Subject:** Wind Turbine Research  
**Importance:** High

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His email address is: [Peter.Rabinowitz@yale.edu](mailto:Peter.Rabinowitz@yale.edu)

His direct line # is: 203-785-7267

Thank you! Dora

**Breton, Mary B**

**From:** Mills, Dora A.  
**Sent:** Friday, March 27, 2009 3:57 AM  
**To:** Fisk, Andrew C; Littell, David P  
**Subject:** RE: Wind Turbine Issue at MMA

I probably dropped the ball – I think Dr. Rabinowitz is expecting to hear from you at your convenience. The application to NIH is due I think today, but he's very interested in any monitoring data you have to provide insights. I think Dr. Nissenbaum's non-scientific study points out the need for a scientific approach if there is to be more research. His contact info is below. Thanks!  
 Dora

[pmr9@email.med.yale.edu](mailto:pmr9@email.med.yale.edu)

[peter.rabinowitz@yale.edu](mailto:peter.rabinowitz@yale.edu)

(203) 785-7267

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**From:** Fisk, Andrew C  
**Sent:** Thursday, March 26, 2009 9:15 AM  
**To:** Mills, Dora A.; Littell, David P  
**Subject:** RE: Wind Turbine Issue at MMA

Thanks – the Sun Journal article seemed reasonable.

Let me know if you need anything else in the interim. I have not heard from the Yale researcher you mentioned.

**Andrew Fisk**  
 Bureau Director, Land & Water Quality  
 Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

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**From:** Mills, Dora A.  
**Sent:** Thursday, March 26, 2009 6:00 AM  
**To:** Fisk, Andrew C; Littell, David P  
**Subject:** Wind Turbine Issue at MMA

The meeting last evening at the Maine Medical Association went okay - very interesting, as it was my first experience with a number of players in the room. Besides some genuinely interested physicians and leadership from the medical society, there were several representatives from the wind industry, including from an association, First Wind, and the company that former Gov Angus King is heading up. There was also Drs. Nissenbaum and Aniel, to present their case for a moratorium.

The latter two were very insistent that they present last, which seemed odd since the only reason we were all there was because of the issues they were bringing forward. But, I didn't push too strongly on that.

Angus presented first, and was quite eloquent. He made the case that the entire issue boils down to siting, and he talked about how he thought a number of homes in Mars Hill are just too close. I then talked for 15 minutes as well - telling my story of how I was contacted by Dr.

36

**Breton, Mary B**

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**From:** Mills, Dora A.  
**Sent:** Friday, March 27, 2009 4:01 AM  
**To:** Peter Rabinowitz, MD 2; Peter Rabinowitz, MD ; Fisk, Andrew C; Littell, David P  
**Subject:** Maine DEP - Yale Connections

This email's purpose is to connect Dr. Peter Rabinowitz with Maine DEP. Andy Fisk is the Director of Land and Water Quality, and David Littell is DEP Commissioner.

Peter – DEP has expressed interest in your possible research in the Mars Hill area, but I know you can describe your proposal better than I can. Additionally, they have quite a bit of monitoring data that may be helpful.

Thank you! Dora

**Breton, Mary B**

**From:** Littell, David P  
**Sent:** Friday, March 27, 2009 2:22 PM  
**To:** Fisk, Andrew C; 'Peter Rabinowitz'; Mills, Dora A.  
**Cc:** 'Peter Rabinowitz, MD 2'  
**Subject:** RE: Maine DEP - Yale Connections

Andy, thanks. I'll let you brief Dr. Rabinowitz. My thinking is that we've looked hard at Mars Hill with a year of data, albeit not necessarily the quality or scope of data the Dr. Rabinowitz would collect.

Because sound propagation and receptor impacts in mountainous, hilly and/or forested terrain is potentially influenced by topography, time of year issues (snow, ice cover, lack of foliage), we know we want to collect such data at one or both of the current wind sites under review by the department if permitted. My thinking is it is worth considering looking at one or both of those sites if they are permitted and built this summer (study beginning next winter over all four seasons).

Having a different and extensive data set to compare to Mars Hill in different topography, conditions and different receptor locations may be more helpful to develop a comprehensive expertise with our consultants and the CDC as Maine is projected to continue to see wind power proposals given our wind resource in many areas of the state. Dr. Rabinowitz's expert analysis would be most helpful.

Dora, thank you for thorough work and providing your independent expertise to date and identifying Dr. Rabinowitz's as a resource for both CDC and DEP.

Best,

David

-----Original Message-----

**From:** Fisk, Andrew C  
**Sent:** Friday, March 27, 2009 1:26 PM  
**To:** Peter Rabinowitz; Mills, Dora A.  
**Cc:** Peter Rabinowitz, MD 2; Littell, David P  
**Subject:** RE: Maine DEP - Yale Connections

Peter,

Let's talk at your convenience about your study design and scope. We can offer some thoughts given the existing and pending projects coming on line in several locations in the state.

My direct line is 207-592-0327.

Andrew Fisk  
Bureau Director, Land & Water Quality  
Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

-----Original Message-----

**From:** Peter Rabinowitz [mailto:Peter.Rabinowitz@yale.edu]  
**Sent:** Friday, March 27, 2009 11:26 AM  
**To:** Mills, Dora A.  
**Cc:** Peter Rabinowitz, MD 2; Fisk, Andrew C; Littell, David P  
**Subject:** Re: Maine DEP - Yale Connections

Mills, Dora A. wrote:

>

**Breton, Mary B**

From: Mills, Dora A.  
 Sent: Friday, April 10, 2009 6:18 PM  
 To: Littell, David P; Fisk, Andrew C; Farmer, David W  
 Cc: Harvey, Brenda; Green, Geoffrey  
 Subject: FW: I suspect you already received the certified mail letter please acknowledge receipt

I'll go ahead and draft a response but not send it until you've reviewed it. Dora

From: athos [mailto:athos@wildblue.net]  
 Sent: Friday, April 10, 2009 9:34 AM  
 To: Mills, Dora A.  
 Subject: I suspect you already received the certified mail letter please acknowledge receipt

Dear Dr.Mills

I believe that the meeting of 03/25/09 was useful on several fronts.

As Dr.Nissenbaum has shown ,the Mars Hill people living within 3500 feet of the Turbine project there are truly suffering, in a real medical sense. Clearly, any regulation that results in placement of turbine, anywhere, in Maine, at less than 3500 feet setback is courting a bad human outcome, regardless of the sound modeling used by the industry to show that there will be no ill effects in that range.

Mr.King acknowledged that the Mars Hill project was a total fiasco. His partner Mr.Gardiner went on to acknowledge serious problems in Freedom, Me. He went on at some length about this after the meeting closed.

Please note that the same acoustic consultants used at Mars Hill performed the noise modeling studies for Stetson II , Rollins and Record Hill and the same assumptions were used for each of these projects. This is worrisome.

As is clearly demonstrated by the post construction measurements at Mars Hill, the model used by the wind industry for that project was seriously flawed. Among other things it seems to have disregarded line source effects of multiple turbines in a linear arrangement perpendicular to residential neighborhoods, and of course ignores low frequency dBC detected noise even though low frequencies are known to travel much longer distances and are shown to correlate with turbine related health effects, particularly sleep disturbance, and all the negatives that flow from that fundamental ill effect.

We can reasonably conclude that the MDEP and DHHS are currently unprepared and largely unaware of the noise and health issues related to wind factories. We can all agree that we need to ensure that additional Maine citizens should not suffer the same results as those Mars Hill residents who live within 3500 feet. In this regard, please note that there are no residents living between 3500 feet and approximately a mile and a quarter or so. As such, we cannot state what distance between those two is the point at which ill effects abate, if they do at all within that range. The sound regulations imposed by European jurisdictions effectively result in setbacks of 1 to 1.5 miles depending upon the topography. We can now state with some confidence that ill effects are likely when homes are placed within 3500 feet of a ridge line arrangement of turbines. Ridgeline placements seems to be the prevalent pattern of turbine placement the industry would like to impose upon Maine.

It is logical for us to expect the State regulatory agencies to familiarize themselves as soon as possible with the relevant physics and physiology, and put appropriate setback regulations in effect before additional turbines are placed.

For example we noted that the MDEP, in its variance issued to First Wind regarding Mars Hill, described the

allowance to 50 dBA as creating a noise "similar to songbirds". This statement alone speaks to the lack of understanding of the nature of sound and a failure to appreciate that a dBA level alone is just one component of a sound's makeup. One can no more describe a sound by its dBA level alone than describe a Van Gogh painting by saying "it is blue"

We believe that if poor outcomes such at Mars Hill and Freedom are to be avoided, it becomes necessary to stop rushing ahead with a "gold rush" mentality, relying solely on the clearly faulty wind modeling currently used by the projects we are aware of, which have to this point been rubberstamped by MDEP and LURC.

Tangentially we note that Mr. King was in error when he stated that Maine's guidelines were close to those of the World Health Organization.

There is a world of difference between 30 dBA and 45dBA. The WHO furthermore goes on to state that when low frequency sounds are part of the noise pollution, levels lower than 30 dBA or incorporating dBC parameters should be used.

As physicians and clinicians it is our foremost duty to do no harm. It is reasonable to adopt the current best practices of jurisdictions that have decades of experience with these technologies. We must look to France, Germany, Holland and the like in this regard, and slow down the permitting until those regulations are in place. France enacted regulations in 2006 stipulating that a level of 25 dBA should not be exceeded in the home and the WHO recommends that no industry should be allowed to increase ambient daytime noise (L90) by 5 dBA and nighttime noise (L90) by 3 dBA. The WHO also recommends that bedroom noise level should not exceed 30 dBA.

Modeling done by the wind companies must take into account allowances for icing on the blades (+6dBA) as well as pulsatility and line source effects among other things. It is easy for the industry to manipulate the models to provide results that they are looking for, which can then be somehow overlooked by the third party consultants hired by MDEP, if they are not diligent.

We know this can happen since it has happened and is now fully documented in the case of Mars Hill. First Wind representatives at the MMA meeting admitted to having made a serious mistake, yet we have no regulations on the books to ensure they do not do so again.

Furthermore the State must have means to not only check for compliance but also enforce compliance with credible threats to insure compliance, up to and including the ordering of stopping turbine rotation and where necessary the removal of non compliant turbines.

We have concerns that MDEP is currently not up to this task, given their recent statements regarding their current overburdened status.

As you see there are many issues that still need to be worked out. A moratorium under such circumstances is certainly logical, unless we quickly move to the adoption of more stringent European and Australian standards.

The State's failure to act responsibly on this issue is equivalent to abandoning it's responsibility to protect the health of Maine's citizens, leaving them with little option but to seek remedy and redress thru the courts.

Sincerely and respectfully,

Michael Nissenbaum MD

Northern Maine Medical Center

Albert Aniel MD

Rumford Hospital

cc. Honorable John Baldacci Governor

Senator P. Bartlett : Senate Majority

10/16/2009

FOAA 54



> Dear Dora, David, and Andy,

>  
Thank you for the email. As Dora has mentioned, we have been working on a grant to NIEHS to do an assessment study of wind turbine sound (including low frequency, "infrasound" and vibration) and shadow flicker exposures and also do some surveying of reported health symptoms and annoyance of nearby residents. It does seem there is a need for some objective research in this regard, I realize ~~the topic is getting pretty polarized and there may be more hyperbole than evidence at present.~~ We had been planning to use Mars Hill as a potential study site, although this was before another party (unbeknownst to us) conducted a symptom survey there recently.

It would be wonderful to share some ideas about these issues, especially since you have spent so much time in the field doing some assessments. We are trying to identify the most valuable ways to add to existing knowledge, not reinvent wheels, looking forward to being in touch, best, Peter Rabinowitz MD MPH

> This email's purpose is to connect Dr. Peter Rabinowitz with Maine  
> DEP. Andy Fisk is the Director of Land and Water Quality, and David  
> Littell is DEP Commissioner.

>  
> Peter - DEP has expressed interest in your possible research in the  
> Mars Hill area, but I know you can describe your proposal better than  
> I can. Additionally, they have quite a bit of monitoring data that may  
> be helpful.

>  
>  
> Thank you! Dora  
>

Senator K.Ray : Senate Minority

FOAA 56

Representative J.Piotti : House Majority

Representative J.A.Tardy : House Minority

Doctor C. Danielson : Chair MMA Public Health Committee

David P.Littel : MDEP

**Breton, Mary B**

4/2

**From:** Mills, Dora A.  
**Sent:** Monday, August 03, 2009 7:30 PM  
**To:** Fisk, Andrew C  
**Subject:** FW: August 12th Wind Energy Subcommittee Meeting cancelled

**Attachments:** Wind Energy Draft Resolution 7-29-09.doc



Wind Energy Draft  
 Resolution 7...

Can you provide comments on this draft resolution - I'm glad to submit them to MMA? Thanks! Dora

-----Original Message-----

**From:** Kellie Miller [mailto:kmiller@mainemed.com]  
**Sent:** Monday, August 03, 2009 2:12 PM  
**To:** Albert Aniel, MD; Charles Danielson, MD; Mills, Dora A.; Gordon Smith; Kellie Miller; Lani Graham, MD; Larry and Daniel Muttu, MD; Michael Nissenbaum, MD; Norma Dreyfus, MD; Richard Jennings, MD; Ted Walworth, MD  
**Subject:** August 12th Wind Energy Subcommittee Meeting cancelled

Sent on behalf of Dr. Danielson:

Re: Wind Energy Subcommittee:

Many members of this subcommittee are passionate and hold strong views on this issue. Our mission is to recommend a policy direction for the MMA. It is my opinion and that of the MMA Executive Committee that another meeting of the subcommittee is unlikely to result in a better recommendation. Therefore we are canceling the 8/12/09 subcommittee meeting. We will present a draft (current form is attached) to the Public Health Committee on 8/26/09, 4-6pm at the MMA office. I appreciate your having taken the trouble to compile a great deal of information. Since we are under time constraints to develop the policy statement for this draft resolution, the most efficient way to get this done will be for me to sit down with Kellie and go over the material that has already been submitted, along with any new evidence-based information you would like to provide by August 12th.

Regards,  
 Charles Danielson, MD, Chair, MMA Public Health Committee

<<Wind Energy Draft Resolution 7-29-09.doc>>

Kellie P. Miller, M.S.  
 Director of Public Health Policy  
 Staff Liaison, Maine Radiological Society & Maine Urological Association Maine Medical Association 30 Association Drive, P.O. Box 190 Manchester, Maine 04351  
 Office: 207-622-3374, ext. 229  
 Cell: 207-462-5713  
 Fax: 207-622-3332  
 kmiller@mainemed.com

Kellie P. Miller, M.S.  
 Downeast Association of Physician Assistants Staff Liaison 30 Association Drive, P.O. Box 190 Manchester, Maine 04351  
 Office: 207-620-7577  
 Fax: 207-622-3332  
 deapa@mainemed.com

**Breton, Mary B**

**From:** Mills, Dora A.  
**Sent:** Monday, September 14, 2009 8:34 PM  
**To:** Fisk, Andrew C  
**Subject:** RE: Maine Med resolution on wind power

I just found it - it's actually awful. Especially the "whereas" I'm appalled they passed something like this! Kellie Miller said the few people in the room were all new to the issue, had no idea what the issue was about, and were quite swayed that this was pretty harmless...At least someone can say in response that the membership that spent time on this issue - the Public Health Committee - voted 9 to 1 against a similar resolution.

Dora

-----Original Message-----

**From:** Fisk, Andrew C  
**Sent:** Monday, September 14, 2009 8:29 PM  
**To:** Mills, Dora A.  
**Subject:** Re: Maine Med resolution on wind power

Tx. I saw it on the industrial wind action page. No need to send it.

Andrew Fisk  
Maine DEP, Land & Water Quality

- sent via Blackberry, apologies for brivty or typos

----- Original Message -----

**From:** Mills, Dora A.  
**To:** Fisk, Andrew C  
**Sent:** Mon Sep 14 20:13:33 2009  
**Subject:** RE: Maine Med resolution on wind power

It's a long story, but yes, the Public Health Committee voted about a month ago 9 to 1 not to forward a resolution. However, any MMA member can introduce a resolution on their own. So, Dr. Aniel submitted a resolution on his own. The resolutions were taken up and discussed early Saturday morning, when there were not many members present, and I understand no members of the PH Committee were present. So, he made his case, and some kind of resolution passed, though I guess it was fairly harmless sounding. I think Kellie has sent me a copy of it, and I'll forward it to you. Ugh....I was due to arrive not until Sunday morning, so did not attend Saturday morning. Dora.

---

**From:** Fisk, Andrew C  
**Sent:** Monday, September 14, 2009 4:49 PM  
**To:** Mills, Dora A.  
**Subject:** FW: Maine Med resolution on wind power

Kellie is out this week, do you know the answer?

Andrew Fisk

Bureau Director, Land & Water Quality

Maine Department of Environmental Protection

**Breton, Mary B**

---

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**To:** Mills, Dora A.  
**Subject:** FW: Maine Med resolution on wind power

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**Andrew Fisk**  
 Bureau Director, Land & Water Quality  
 Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

---

**From:** Fisk, Andrew C  
**Sent:** Monday, September 14, 2009 4:35 PM  
**To:** kmiller@mainemed.com  
**Subject:** Maine Med resolution on wind power

Kellie,

Someone sent me this link:

<http://www.windaction.org/documents/23095>

which indicates MMA did adopt a resolution on windpower on 9/12. Is this accurate? I thought the Public Health committee didn't vote to endorse a resolution.

Let me know if you could, thanks. Hope things are well,

Andy

**Andrew Fisk**  
 Bureau Director, Land & Water Quality  
 Maine Department of Environmental Protection

207-287-7671  
[www.maine.gov/dep](http://www.maine.gov/dep)

**Breton, Mary B**

---

**From:** Callahan, Beth  
**Sent:** Wednesday, August 19, 2009 4:09 PM  
**To:** Fisk, Andrew C; Richardson, Marybeth; Kelley, Lorraine; Woods, Melanie R  
**Subject:** Record Hill Wind, LLC L24441AN&BN

Done with revisions. Ready for your review and signature.

Z:\L&WLAND-RRITowns CMRO Internal\LICENSES\Record Hill Wind, LLC. L24441AN&BN.doc

Melanie – See Lorraine. I know she would like your help with the final distribution of this Order. I will send you the email distribution list in a separate email.

Thanks,  
**BETH CALLAHAN**  
*Project Manager*  
*ME Dept. of Environmental Protection*  
*Division of Land Resource Regulation*