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Butler, Matthew

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From: valeriechristina@rocketmail.com
Sent: Friday, July 25, 2014 4:45 PM
To: Monica Jensen; Puco ContactOPSB
Subject: Re: #13-0990-EL-BGN R.James, acoustic engineer

Dear OPSB and Monica,

Please docket questions, case #13-0990-EL-BGN.

Perfect. Thank you. We love research, and will continue to explore facts (especially research that is not bogus, produced and funded by the wind industry).

Yes, Sandusky local schools (Ohio) had a wind turbine and it dangerously fell on the school and then it was tore down. Sad and dangerous use of more taxpayer money.

Yes, many schools have small-scale windmills, I'm aware. Like comparing watermelons and tangerines, um , or apples and oranges , maybe. There are distinct differences , especially due to effects of Infrasound Low-Frequency Noise.

Sadly, research shows 7/10 children perform more poorly academically when exposed, specifically, to industrial commercial grade large (ex: 490ft) turbine noise emissions (ILFN). Sadly, in Boone county Illinois there have been more absentees and tardies than ever recorded in one year after a turbine project came to town. All those fancy , expensive smart boards and equipment, but students unable to concentrate because these CHILDREN CANNOT SLEEP IN THEIR OWN BEDROOM AT NIGHT.

Yes, more research must be completed on small scale windmills in many settings. Much more effective than 49 story industrial commercial machines known to cause debilitating effects to health and property values around the world.

My question, there are seven local parks near these proposed turbines. What is the exact distance of the closest turbine to each of these respective parks? How many turbines are within three miles of each park?

You are aware, are you not , of research on the impact of ILFN (Infrasound Low-Frequency Noise) on sleep, rest , and brain activity? What are the levels of ILFN emissions predicted by these 25 rotating turbines**(see locations inquiries below)**? What is the speed at which the turbines will be rotating? (These are direct questions.)

Rick James, **Acoustics Engineer,** reports(all quotes below are by R.James), "As the blade passes the tower, the low frequency noise and infrasound is generated at a frequency related to the hub's rotation and number of blades. These pressure pulsations appear as tones during analysis, but are not heard as tones by most people. Instead they may feel the pressure changes as pulsations, internal organ vibration, or so pain (like earaches or migraines)."

"For modern utility-scale wind turbines this frequency is that 1 Hertz or lower. A three-bladed wind turbine with a hub rotation of 20 revolutions per minute (rpm) has a BPF of 1Hz. **This means there is a pressure**

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Technician AOP Date Processed 7/28/14

pulsation emitted into the community once every second at 15 rpm the BPF is .75 Hz; and at 10 rpm, .5 Hz."

"For impulsive sound of this type, the harmonics are all 'phase- correlated.' This means the peaks of each occur at the same time. Thus, the peaks add together in a linear fashion with their individual maximum sound pressures all coinciding."

"Thus, for an impulse having 4 equal amplitude harmonics (BPF, second, third, and fourth) each of the same amplitude the peak level is +12dB. 10 equal harmonics would produce a peak level of 20 decibals."

Again,(this is a direct question) what are the predicted noise emissions (ILFN) from this proposed industrial, commercial wind turbine power station?

What is predicted ILFN for:

a) the 668 homes (within 1.25 miles) exposed to these noise emissions?

b) the two schools and seven parks?

Thank you in advance Monica.

Cheers,

Valerie C. Malicki, MA, LPCC

From: Monica Jensen <monica.jensen@windlab.com>;
To: Valerie Malicki <valeriechristina@rocketmail.com>; <contactopsb@puc.state.oh.us>;
Subject: RE: #13-0990-EL-BGN Malicki Response & DOE schools with turbines on premises
Sent: Fri, Jul 25, 2014 7:16:53 PM

OPSB: Please docket response.

Mrs. Malicki,

Thank you for your questions regarding the distances to nearest turbines.

The exact distance from the Greenwich school: 2.04 miles, (measured from Turbine #23 to the front door of the South Central Elementary school). There are 13 turbines within a distance of 3 miles of the Greenwich school.

The exact distance from the Mennonite school: .63 miles, (3,329 feet), (measured from turbine #11 to the Mennonite school located East of Hwy 13 on Baseline Road). There are 18 turbines within a distance of 3 miles of the Mennonite school.

The following link may be of interest to you. It is the US Department of Energy's listing of schools that have wind generators located on their school premises:

http://apps2.eere.energy.gov/wind/windexchange/schools/projects.asp

The exact location from Greenwich Reservoir park to the nearest turbine: 1.05 miles (measured from Turbine #14 to the Reservoir Dam). The number of turbines within 3 miles of Reservoir Park is 22.

I am not able to understand your add on question: *and also distance of the seven parks these turbines are located?*

As this project foot print is 4.2 miles from North to South and approximately 2 miles on average east/west, a three mile distance from any location will include most of the turbines within the project area.

Best,

Monica Jensen

Vice President, Development | Windlab Developments USA Ltd

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From: Valerie Malicki [mailto:valeriechristina@rocketmail.com]
Sent: Friday, July 25, 2014 1:59 PM
To: Monica Jensen; contactopsb@puc.state.oh.us
Subject: Re: #13-0990-EL-BGN Greenwich Wind Turbines 49 stories tall

Dear OPSB and Monica,

Reference case #13-0990-EL-BGN.

Thank for answering this direct question, but many other unanswered questions remain, please respond:

What is exact distance from: our Greenwich school and our Mennonite school , to closest turbines?

What is exact location from Greenwich Reservoir Park to the closest turbine, and also distance of the seven parks these turbines are located?

How many turbines are within 3 miles of all of the above public meeting locations?

Again, seemingly first-grade type questions, we assume you will have no troubles answering.

Your kind prompt response appreciated.

Sincerely,

Valerie C. Malicki, MA, LPCC

From: Monica Jensen <monica.jensen@windlab.com>;
To: Valerie Malicki <valeriechristina@rocketmail.com>; <contactopsb@puc.state.oh.us>;
Subject: RE: #13-0990-EL-BGN Greenwich Wind
Sent: Fri, Jul 25, 2014 5:37:36 PM

OPSB: Please docket response.

Mrs. Malicki,

Thank you for your direct question of how many homes are 1.25 miles from the proposed turbines. There are 668 homes 1.25 miles from the proposed turbines. For reference, the Acoustical Study (Exhibit O: http://dis.puc.state.oh.us/CaseRecord.aspx?CaseNo=13-0990) included 906 non-participating residences, which encompassed a greater area than the 1.25 mile distance around each turbine location.

Best,

Monica Jensen

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From: Valerie Malicki [mailto:valeriechristina@rocketmail.com]
Sent: Friday, July 25, 2014 12:47 PM
To: Valerie Malicki; contactopsb@puc.state.oh.us; monica.jensen@windlab.com
Subject: #13-0990-EL-BGN Greenwich Wind Turbines 49 stories tall

Dear OPSB and Monica,

Referencing case #13-0990-EL-BGN

Research shows the predicted response from a community with an ambient 51 dBA noise level will be "vigorous community action" and "strong appeals to stop noise."

Hard questions.

The easy question Monica is this: HOW MANY HOMES are 1.25 miles from the proposed turbines?

You promised to answer questions, and we are still awaiting your prompt response.

Sincerely,

Valerie C. Malicki, MA, LPCC