



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In re: Spruce Mountain Wind Project

**AFFIDAVIT OF ALBERT ANIEL, MD**

Albert Aniel, being first duly sworn, depose and say as follows:

1. My name is Albert Aniel MD, I am a board certified physician in Internal Medicine, whose training and daily work deals with diagnoses and treatments of bodily functions and organs and the causes of their dysfunction, including the effects of sound on human physiology and organs.

2. I give this affidavit in support of concerns I have relating to the Spruce Mountain Wind Project.

3. I am not remunerated for this since as a physician I believe that it is my calling to prevent ill health effects to affect my fellow citizens.

4. I have added my Curriculum Vitae to this affidavit.

5. I have reviewed the documents pertaining to the Spruce Mountain Wind Project relating to noise.

6. I firmly believe that placing industrial wind turbines according to the planned project will most certainly cause mental and subsequent adverse health effects to people living within a mile of such project. In order to protect citizens from these health hazards, turbines should not be placed within a mile from a habitated dwelling and furthermore the sound levels should not be greater than 40dBA outside at the property limit and 30 dBA inside the dwelling. In addition to this setback limit, LFN measurements need to be taken and appropriate corrections made if dBC is 10dB greater than dBA. I base these conclusions on the following:

a. Maine's DEP Technical Assistance Bulletin 2000 states: a quiet house interior or rural nighttime is 20dBA.

b. An increase in 5 dBA is a doubling of volume and an increase of 10dBA equals a tenfold increase in volume.

c. Several worldwide and US peer reviewed studies, have demonstrated unequivocally that people living within a mile downwind of industrial wind turbines will be adversely affected thru sleep disturbance (difficulty falling asleep, staying asleep and alterations of sleep stages) but also by noise during sleep (increase in arousal, heart rate, respiration rate, increased body movements and cardiac irregular heart beats).

d. These effects lead to poor perception of sleep, fatigue, depression,

decreased mental and physical performance, stress, irritability, hypertension, headaches, nausea, dizziness.

e. Maine's DEP noise standard is 45 dBA at the property but the World Health Organization strongly recommends that the noise level be no greater than 40 dBA outside the property providing that the noise inside the dwelling be no greater than 30dBA ( WHO Europe 2009 page 109).

f. Sleep is highly disturbed at a level of 40 to 45dBA (WHO Europe page 104). Furthermore the WHO also recommends that ambient noise not be increased by more than 5 dBA during the day and 3dBa during the night.

g. No provisions are taken by Maine DEP to measure low frequency noise as recommended by the World Health Organization and implemented in Germany and Denmark. The evidence on low frequent noise (LFN) is sufficiently strong to warrant immediate concerns. Health effects due to low frequency components in noise are estimated to be more severe than for community noise in general. Disturbances may occur even though the sound pressure level is below 30dBA.. Wind turbines have a high LFN component to their operation.

h. Irregular noise is more stressful than continuous noise and so are short duration bursts thus one must take into account short duration repetitive sounds which may increase the noise level by 10 to 15 dBA

i. People become aware of noise above 35 dBA.

7. Maine's DEP guidelines and noise standards have failed to protect citizens in Mars Hill, Freedom and Vinalhaven.

8. Maine's DEP does not address LFN is tantamount to willful negligence in view of the available scientific data.

9. No adequate provisions are made for flicker phenomena.

Dated: 9.14.10

Albert Aniel, MD

STATE OF MAINE

~~Appointed~~ ~~as~~ ~~OXFORD~~

September 14, 2010

Personally appeared the above-named Albert Aniel, MD, and being sworn, made oath that the foregoing statements by him described are upon his own knowledge, information and belief and that, so far as upon information and belief, that he believes this information to be true.

Before me,

*Sheryl J. Briggs*  
Notary Public/Attorney-at-Law  
My commission expires:

**Sheryl J. Briggs**  
Notary Public  
Maine  
Comm. Exp. Sept. 14, 2010

**ALBERT ANIEL, M.D.**  
**Curriculum Vitae**

**PERSONAL DATA**

Born 1/5/48—Brussels, Belgium.  
U.S. Citizenship, 1969.

**UNDERGRADUATE  
WORK**

Los Angeles City College, 1966-1968.  
University of California (UCLA), 1968-1970.  
Graduated with B.A. in Zoology.

**EDUCATION  
Medical School**

University of Brussels/Medical School, Belgium, 1970-1977.  
Awarded medical degree with distinction.

**Internship**

Akron Hospital, Cleveland, Ohio, 1977-1978.  
Flexible internship.

**Residency**

Mt. Sinai Hospital, Cleveland, Ohio, 1978-1981.  
Completion of Internal Medicine residency.

Board certified by the American Board of Internal Medicine,  
September, 1982.

**HOSPITAL  
AFFILIATION**

Rumford Community Hospital.  
Active staff from 1981-August, 2001.  
Courtesy staff from August, 2001-2002.

**PROFESSIONAL  
EXPERIENCE**

Private practice in Internal Medicine in Rumford, Maine, 1981  
until present.

Director of Pulmonary Services, Rumford Community  
Hospital, 1998 until present.

Director of ICU/Cardiology for multiple years until present.

**DISTINCTIONS**

Introduced use of Nitroglycerin at Rumford Community  
Hospital for treatment of myocardial ischemia and  
infarction, 1981.

Set up thrombolytic therapy protocol for myocardial  
infarction at Rumford Community Hospital, 1985.

Proficiency in evaluation of cardiac ultrasound since 1995  
after having met the requirement criteria as per American  
College of Cardiology/Board of Echocardiography.

Albert Aniel M.D

Curriculum Vitae

Page Two

**Notables :** Speaking engagements for Parke-Davis Pharmaceutical, Novartis Pharmaceutical, Abbot Pharmaceutical : relating to hypertensive issues.

Speaking engagement for Pfizer :relating to efectile dysfunction  
hyperlipidemia, endothelial dysfunction and metabolic syndrome.

Able to perform and / interpret:

\*Stress tests

\*Stress echocardiogram

\*Dobutamine stress test and echocardiogram

\*Persantine and adenosine stress test

\*Temporary pacemaker insertion

\*Electrical cardioversion

\* Interpretation of pulmonary function tests

Testified on health issues on behalf of concerned citizens of Butler Township Zoning  
Hearing Board review of plans for a 27 wind turbine farm project by Broad Mountain  
Development Company, LLC in Butler Township, Schuylkill County, PA In July 2010