

**RE: APPLICATION OF ANTRIM WIND ENERGY, LLC FOR CERTIFICATE OF
SITE AND FACILITY FOR ANTRIM WIND ENERGY IN ANTRIM, NEW
HAMPSHIRE**

**SUPPLEMENTAL TESTIMONY OF TREVOR LLOYD-EVANS OF MANOMET
CENTER FOR CONSERVATION SCIENCES
ON BEHALF OF COUNSEL FOR THE PUBLIC**

11th October 2012

**I Trevor Lloyd-Evans do hereby state under the pains and penalties of
perjury that the following attached testimony is true.**



Trevor Lloyd-Evans

Qualifications – Trevor Lloyd-Evans

Please state your name and business address.

Trevor L. Lloyd-Evans. Manomet Center for Conservation Sciences, PO
Box 1770, Manomet, Massachusetts 02345-1770.

Who is your current employer and what position do you hold?

I am currently employed by Manomet Center for Conservation Sciences (MCCS) as Senior Staff Biologist and have held this position since 1972. My specialties are conservation biology, evolution and avian ecology. At various times I have taught these topics both informally to staff and interns, also as courses for credit to undergraduate and graduate students for a consortium of colleges and universities. (Faculty, Field Biology Training Program MCCS 1986-1997).

What is your background and qualifications?

Honours Zoology B.Sc. 1968 from the University of Wales (United Kingdom) and graduate coursework, qualifying exams and oral exams in Ecology at Boston University, Massachusetts. North American (Bird) Banding Council, Committee, Trainer (1998-present). Nuttall Ornithological Club, Cambridge, MA, Council, Vice-President, President (1977-1984). Committee member Partners in Flight NE Region (US), Partners in Flight (Commonwealth of Massachusetts), Massachusetts Avian Records Committee, member and Chair (1996-2003 and 2011-present).

I have headed the Bird Migration Banding Program at Manomet Bird Observatory (MCCS) since 1972 and conducted fieldwork for impact studies, State and Federally funded surveys, contract and in house research in avian conservation biology, ecology, physiology and evolutionary biology in US States

1 and several foreign countries. Refereed publications in professional journals,
2 presentations and contract reports are available on request.
3 This is my third appearance as an expert witness for the Counsel for the Public in
4 New Hampshire.

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7 **Purpose of Testimony**

8 The purpose of this supplemental testimony is to present the State of New
9 Hampshire with relevant material published subsequently to the Testimony I filed
10 on 31st July 2012. These materials relate to a letter and Endangered and
11 Threatened Species Takings Permit issued by the Agency of Natural Resources
12 (State of Vermont) both dated 25th September 2012. The Permittee (Vermont
13 Wind, LLC) under Mitigation (W.) “..... has entered into a partnership with the
14 U.S. Fish and Wildlife Service (USFWS), Bat Conservation International, Texas
15 Tech University, and the Vermont Fish and Wildlife Department (FWD) to
16 evaluate the success of the curtailment protocols described in *EVALUATING*
17 *AVIAN AND BAT POST-CONSTRUCTION IMPACTS AT THE SHEFFIELD*
18 *WIND FARM, VERMONT, Revised April 2012.*” Under Takings (L.) the permit
19 notes “Little brown bats have been killed at 19 of 20 wind energy facilities for
20 which data is available in the Northeast. Little brown bats comprised
21 approximately 15% of bat fatalities in the northeast and 17% of observed bat
22 fatalities at wind facilities in New England.” Wind projects mentioned include
23 Mars Hill, ME, Stetson, ME and Lempster, NH.

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2 The proposed study under the permit includes a cut-in curtailment study over
3 multiple years for up to 120 nights (June 1 to September 30) when ambient air
4 temperature is greater than 9.5 degrees C (49 degrees F) and wind speeds are
5 equal to or below 6 m/s (13.4 mph). Curtailment will occur during nights (1/2
6 hour before sunset to sunrise) when bats are active.

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8 I suggest that these materials strongly support the Testimony I presented (31st
9 July 2012) and should be carefully considered by the Proponent, USFWS and
10 NHFGD during revisions of the Proponents Avian and Bat Protection Plan. A
11 three –year study post-construction would provide rigorous data for the adaptive
12 management to follow, if the SEC grants this Antrim Wind Energy permit.

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14 **Q. What materials were consulted prior to this supplementary testimony?**

15 Letter from Deborah L. Markowitz, Agency Secretary, Agency of Natural
16 Resources, State of Vermont dated 25th September 2012 to accompany:

17 Endangered & Threatened Species Takings Permit granted by the Agency
18 of Natural Resources (VT) to Joshua Bagnato, Vermont Wind, LLC dated 25th
19 September 2012.

20 Proposal: Evaluating Avian and Bat Post-Construction Impacts at the
21 Sheffield Wind Farm, Vermont. Arnett, E.B. and Wallace, M.C. dated revised
22 April 2012.