PSC REF#:183160

Public Service Commission of Wisconsin
RECEIVED: 04/04/13, 2:23:26 PM

OFFICIAL FILING
BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN

Application of Highland Wind Farm, LLC for a Certificate of Public Convenience and Necessity To Construct a 102.5 MW Electric Generation Facility and Associated Electric Facilities, to be Located in the towns of Forest and Cylon, St. Croix County, Wisconsin

Docket No. 2535-CE-100

SECOND AFFDAVIT OF TIM OSTERBERG

STATE OF WISCONSIN)
) ss.
COUNTY OF WASHINGTON)

Tim Osterberg, being first duly sworn, on oath deposes and states as follows:

1. My name is Tim Osterberg. I am one of the three principals developing the Highland Wind Project. I have an engineering degree and coordinated with Highland's consulting experts during the turbine micro siting process for the Project.

2. Highland asked AWS Truepower ("AWS") to model the impact to the Project's overall production output of incorporating the curtailment of certain of the Project's turbines to achieve compliance with the PSC 128.14(3) 45 dBA nighttime sound limit and 40dBA nighttime sound limit for six sensitive locations. Ex.-HWF-Osterberg-5, attached to this Affidavit, contains the model reports from AWS. These model runs used the 0.0 ground attenuation factor based on curtailment schedules previously identified as Ex.-HWF-Blank-3 and Ex.-HWF-Blank-4. Based on these reports AWS projects that total production for the Project will be reduced by 1.6 percent per year for the Siemens SWT-2.3-113 turbine or by 4.5 percent per year for the Nordex N117/2400 due to curtailments necessary to comply with the PSC 128.14 nighttime standard and requested 40dBA limit for six sensitive locations.

These results are conservative because the model used by AWS assumes the wind is coming from all directions at the same time. Once the turbines are programmed to curtail only for wind directions which will cause a violation of the sound limit the amount of time the turbine will actually be curtailed will be less than projected in the AWS model. The results are also conservative because the model assumed the applicable turbines were curtailed during all evening hours (10 P.M.-6 A.M.) over the entire year using the 0.0 ground attenuation factor. The reduction in kWhs due to curtailment projected by AWS will not negatively impact the Project to a degree that makes the Project uneconomic.

3. Attached to this affidavit is a complete and accurate transcript of the Commission's March 1, 2013 Open Meeting marked as Ex.-HWF-Osterberg-6.

Dated this 4th day of April, 2013.

Tim Osterberg

Subscribed and sworn to before me
This 4th day of April, 2013.

Notary Public, State of Wisconsin
My Commission: September 18, 2016

JOSHUA S. SCHROEDER
NOTARY
PUBLIC
STATE OF WISCONSIN