Quarterly Milestone Transmittal

To: Mike Derby

From: Nicholas Hamilton

Program: Wind Energy Technologies

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| Milestone Description/Objective | Specify instrumentation needs to make point measurements for time- and frequency-domain assessment of aeroacoustic emissions of DOE 1.5 MW wind turbine. |
| WBS: | WETO.1.3.4.403 |
| Milestone Status: | Completed |
| Completion Date: | 12/23/19 |
| Accomplishment: | All audio recording and data acquisition instrumentation necessary for the successful execution of the Aeroacoustic Assessment project has been specified in compliance of the relevant standards. |
| Project Impact of achieving this milestone: | Specifying the equipment required for the Aeroacoustics project will ensure that to the fullest extent possible, all observations of wind turbine noise will comply with the related IEC standards for noise testing and sound level meters. Acquisition of the described instrumentation in FY20Q2 will lead to deployement of acoustic equipment around the DOE 1.5 MW wind turbine, and ensure successful aeroacoustic studies for future research projects. |
| Reference/supporting data/deliverable | A report describing the noise observations, measurement locations, and the necessary equipment is attached. Data sheets for all audio recording and data acquisition equipment is included as an appendix. |