

## Wind turbine generator system power performance test report for the Entegrity EW50 wind turbine



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No binding. Book Condition: New. This item is printed on demand. Original publisher: Golden, CO : National Renewable Energy Laboratory, 2011 OCLC Number: (OCoLC)733057073 Subject: Wind turbines -- Testing. Excerpt: . . . The EW50 was connected to the electrical grid at a nominal voltage of 480 VAC at a frequency of 60 Hz. The grid tolerances are 5 for voltage amplitude and 1 for frequency. 4. Description of Test Equipment All test equipment was calibrated; Appendix B contains the calibration sheets. Table 4 shows the equipment used and calibration due dates. Figure 4 depicts the placement of the meteorological instruments on the tower. The primary anemometer was sent out for recalibration after the test period. The difference between the pre-test and post-test calibrations is less than 0. 04m s for the range of 6 to 12m s, and this is within the tolerances allowed by the Standard ( 0. 1m s ). Table 4. Equipment used in the power performance test Instrument Make and Model Serial Number Calibration Due Date Power transducer Ohio Semitronics, DMT 1040E 07070473 12 Feb 10 001293045 Calibrated with power Current transformers Ohio Semitronics, 12974 001235428 transducer 001293049 Primary anemometer Thies, First Class 0707884 25 Feb 10 Reference anemometer NRG, Max 40 179500049025 25 Feb 10 Met One, 020C with Aluminum Vane Wind vane U1477 25 Feb 10 Pressure sensor Vaisala, PTB101B C1020015 3 Sept 10 Temperature sensor Met One, T200 0549828 10 Oct 09 Precipitation sensor Campbell Scientific, 237 None In situ Compact DAQ w LabView n a 12E4CEB cDAQ backplane ( 9172 ) Data acquisition 10 Nov 09 13DEC38 NI 9229 system 16 Dec 09 13FAE1C NI 9217 12 Nov 09 13E3D05 NI 9205 Page 12 of 50 This item ships from La Vergne,TN. unknown.



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