NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Wind Turbine Blade Test Definition of the DeWind DW90 Rotor Blade

Cooperative Research and Development Final Report

CRADA Number: CRD-09-326

NREL Technical Contact: Scott Hughes

NREL is a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency & Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.

CRADA Report
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Cooperative Research and Development Final Report

In accordance with Requirements set forth in Article XI.A(3) of the CRADA document, this document is the final CRADA report, including a list of Subject Inventions, to be forwarded to the Office of Science and Technical Information as part of the commitment to the public to demonstrate results of federally funded research.

CRADA number: CRD-09-326

CRADA Title: Wind Turbine Blade Test Definition of the DeWind DW90 Rotor Blade

Parties to the Agreement: Dewind, Inc.

Joint Work Statement Funding Table showing DOE commitment:

Estimated Costs	**NREL** Shared Resources
Year 1	$ 7000.00
Year 2	$ 00.00
Year 3	$ 00.00
TOTALS	$ 7000.00

Abstract of CRADA work:

This CRADA was developed as a funds-in CRADA with DeWind to assess the suitability of facilities and equipment at the NWTC for performing certification blade testing on wind turbine blades made from advanced materials. DeWind produces a wind turbine blade which includes the use of high-strength and stiffness materials. NREL and DeWind had a mutual interest in defining the necessary facilities, equipment, and test methods for testing large wind turbine blades which incorporate advanced materials and adaptive structures, as the demands on test equipment and infrastructure are greater than current capabilities. Work under this CRADA would enable DeWind to verify domestic capability for certification-class static and fatigue testing, while NREL would be able to identify and develop specialized test capabilities based on the test requirements.

Summary of Research Results:

Due to changes in the blade development schedule, no work was performed under this CRADA.

Subject Inventions listing:

No subject inventions were created as a part of this work.

Report Date: March 15, 2012 Responsible Technical Contact at Alliance/NREL: Scott Hughes

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