



Development of an Industry Dynamometer/Spin Test Facility – Equipment Only

**Cooperative Research and
Development Final Report**

CRADA Number: CRD-05-164

NREL Technical Contact: Mark McDade

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In accordance with Requirements set forth in Article XI. Reports and Abstracts A.(3), of the CRADA agreement, 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.

Parties to the Agreement: The Gear Works

CRADA Number: CRD-05-164

CRADA Title: Development of an Industry Dynamometer/Spin Test Facility - Equipment only

Joint Work Statement Funding Table Showing DOE Commitment:

Estimated Costs	NREL Shared Resources
Years 1 through 10	\$500,000.00
TOTAL	\$500,000.00

Abstract of CRADA Work:

The Department of Energy/National Renewable Energy Laboratory (DOE/NREL) owns and operates a megawatt-scale dynamometer used for testing wind turbine drive trains up to 1.5 megawatt (MW) in rated capacity. At this time, this unit is the only unit of its type in the United States, available for use by the American Wind Industry. Currently this dynamometer is heavily backlogged and unavailable to provide testing needed by various wind industry members. DOE/NREL is in possession of two critical pieces of equipment that may be used to develop an alternative Dynamometer facility, but does not have the funds or other resources necessary to develop such a facility. The Participant possesses complimentary facilities and infrastructure that when combined with the NREL equipment can create such a test facility. The Participant is also committed to expending funds to develop and operate such a facility to the subsequent benefit of the Wind Industry and DOE Wind Energy program. In exchange for DOE/NREL providing the critical equipment, the Participant will grant DOE/NREL a minimum of 90 days of testing time per year in the new facility while incurring no facilities fees.

Summary of Research Results:

N/A – the partner was not able to raise sufficient capital to build the facility as planned.

Subject Inventions Listing:

None

Report Date:

October 24, 2016

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