Day 1, June 17, 2009:

Reliability: Impacts across the Spectrum
1) Welcome and Purposeful Criteria for this Workshop, Roger Hill, Sandia National Laboratories (Verbal Address)
2) A Video Message from the Chairman of The Senate Energy and Natural Resources Committee, Jeff Bingaman, US Senator, NM
3) Creating a Culture of Reliability, Megan McCluer, US Department of Energy (Verbal Address)
4) North American Wind Research and Training Center, Jim Morgan, Mesalands Community College (Verbal Address)
5) (Keynote Address) Reliability and the Future of Wind Energy, Jim Walker, Past President American Wind Energy Association

Operator Approaches to Managing the Costs of Unreliability
6) Wind Turbine Operations: Approach to Managing the Cost of Unreliability, Manny Sanchez, NextEra Energy Resources
7) Reliability Factors - Iberdrola Renewables, Kevin Devlin, Iberdrola Renewables
8) Reliability Management: Get the Basics Right, Antonio Coutinho, Horizon Wind Energy
9) Managing WTG Unreliability Costs through Failure Prediction and Proactive Maintenance, Mike Smith, enXco Service Corporation
10) Reliability Observations and the AWEA O&M Working Group, John Dunlop, American Wind Energy Association

Luncheon Address
11) Arnie Baker, Sandia National Laboratories (Verbal Address)

Wind Turbines in Today’s Environment
12) Reliability of GE’s 1.5 MW Turbine A Component View, John Murphy, General Electric Energy
13) Turbine Condition Monitoring, Mikkel Maehlisen, Siemens Wind Power
14) Reliability: Our Vision, Miguel Gonzalez-Posada, Gamesa Wind US

Components are the Source of Turbine Reliability
15) Manufacturing Blades for Turbine Reliability, Gary Kanaby, Knight & Carver Wind Group
16) Large Blade Testing Facilities in the U.S., Rahul Yarala, Massachusetts Wind Technology Testing Center
17) Reliability & Availability of Wind Turbine Electrical & Electronic Components, Peter Tavner, Durham University
19) Online Load Monitoring for Gear Boxes, Eckart Bodenbach, Winery Drive Systems Corporation

Day 2, June 18, 2009:

Gearbox Reliability
1) NREL Gearbox Reliability Collaborative, Francisco Oyague, National Renewable Energy Laboratory
2) Advanced Analysis Approaches for Wind Turbine Drivetrain Design, Ashley Crowther, Romax Technology
3) Challenges of the Design, Manufacturing and Validation of Large Gearboxes used in Wind Turbine Applications, Anthony Giammarise, General Electric Transportation
4) Gear and Bearing Micropitting, Sandy Butterfield, National Renewable Energy Laboratory

Condition Monitoring
5) Data Fusion Applied to Health Monitoring of Dynamic Mechanical Components, Paula Dempsey, NASA Glenn Research Center
6) Overview of GRC Condition Monitoring, Shuangwen (Shawn) Sheng, National Renewable Energy Laboratory
7) Two Keys of Reliability Initiatives - Clean Oil and Oil Condition, Justin Stover, CC Jensen, Inc.
8) Condition Monitoring and Wind Turbine Blades, Mark Rumsey, Sandia National Laboratories

Blade Reliability
10) Improved Wind Turbine Blade Reliability, Doug Cairns, Montana State University
11) Methodology for Assessing the Reliability of Nondestructive Inspections on Wind Turbine Blades, Dennis Roach, Sandia National Laboratories
12) Designing Blades As They Are Really Manufactured, Kyle Wetzel, Wetzel Engineering

Reliability Analysis and Data Collection
13) Reliability Data Field Study in the Reliawind Project, Michael Wilkinson, Garrad Hassan & Partners Ltd.
14) Gearbox Reliability Collaborative Database, Jim Johnson, National Renewable Energy Laboratory
15) National Wind Plant Reliability Database & Analysis Program, Valerie Peters, Sandia National Laboratories
16) The Value of Reliability Data - A Look Back... A View of the Future, Sal DellaVilla, Strategic Power Systems, Inc.

View from the Field: Perspectives Panel, Closing Discussion
17) Digging Down for Reliability, Larry Barr, enXco Service Corporation
19) Reliability Considerations, Eric White, AWS Truewind
20) Design for Reliability: Economic Optimization, Ben Bell, Garrad Hassan America