



Sandia, AWEA and National Renewable Energy Laboratory

2006 Wind Turbine Reliability Workshop

Pitch Systems

Overview and Introduction

Speakers:

Ed Hahlbeck PEI

Paul Rowan, MLS

Brian Richards Vogel-SKF



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Pitch Systems, Overview and Introduction

Session:

- **Remarks from the Mechanical Guy**
- **Paul; Factors Influencing WT Reliability in Pitch System Designs**
- **Brian; Centralized Lube Systems Increase WT Reliability and Maintainability**



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Trends:

- **Evolving to highly active servo system**
- **Critical to turbine safety**
- **Critical to maintaining design loads**
- **As a subsystem, more wearing and ageing parts than any others**



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Mechanical Guy:

- **Just a few words, more on the mechanicals in next session**