

WELCOME TO RATCLIFFE-ON-SOAR

Theme X, Drive-train Loads & Monitoring

Supergen Theme X Industrial Workshop

Peter Tavner

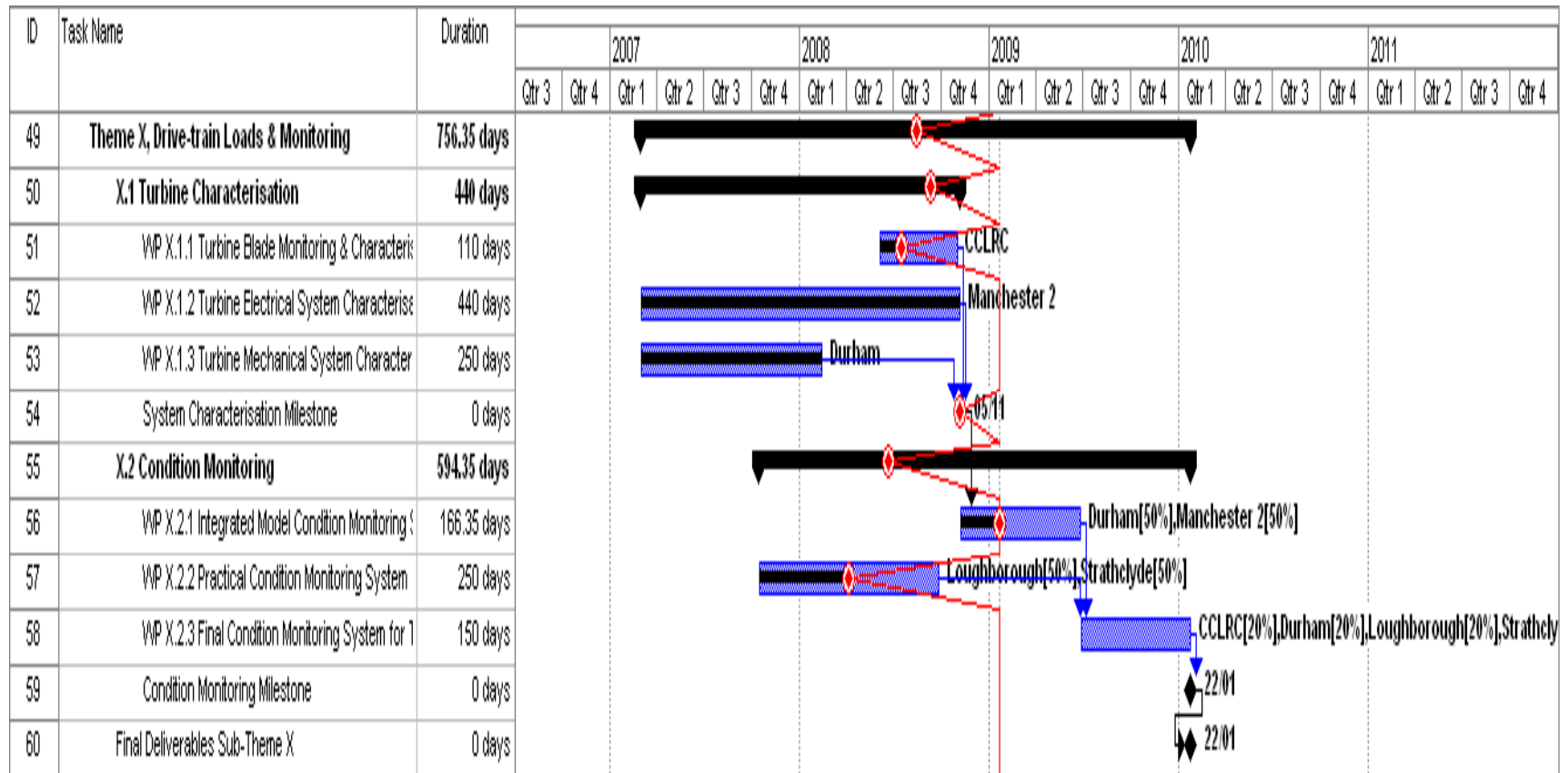
22nd January 2009

AGENDA

- 1100-1115: Introduction to Theme X and its objectives as set out in the Project Proposal, P J Tavner, Theme Leader
- 1115-1145: Introduction to the issues of Wind Turbine Condition Monitoring by David Futter, Head of Condition Monitoring, Eon Power Technology.
- 1145-1300: Presentations by Academic Partners of work done to date in Supergen Wind Theme X, emphasising results achieved against the objectives, collaboration with academics and collaboration with industry. 5 presentations 15 mins each.
- 1300-1400: Lunch
- 1400-1430: Feedback from Industrial Partners on the work done to date in Supergen Wind Theme X.
- 1430-1600: Discussion between Partners to determine how the project will progress to meet the objectives set by the Consortium in Theme X, to identify synergies, to identify the interaction with Industrial Partners to achieve these objectives.
- 1600: Close



Theme X Programme to date



Theme X Objectives & Targets extracted from the Agreed Consortium Agreement

- Objective overall of the Consortium is as follows:
 - To undertake research to improve the cost-effective reliability & availability of existing and future large scale wind turbine systems in the UK.
- Objective of Theme X, Drive-train Loads & Monitoring (workload 142 person-months)
 - To research drive train loads imposed on existing & future wind turbines and to devise the means to condition monitor turbines to increase availability.
- Target of Theme X is to reduce the downtime of offshore turbines by 50% through the use of condition monitoring and pro-active maintenance.
- Outcome of Theme X a strategy for predictive and proactive maintenance of offshore wind turbines.
- Mechanism is through research, collaboration with academic and industrial partners



