

Advanced RBM software for optimising plant maintenance



- unit-wide risk audit enables repair and maintenance resources to be risk-focused
- optimum inspection periods are formally obtained based on an implicit time dimension of risk
- risk mitigation measures are signalled and selected to meet inspection frequency targets
- user-selectable application display language

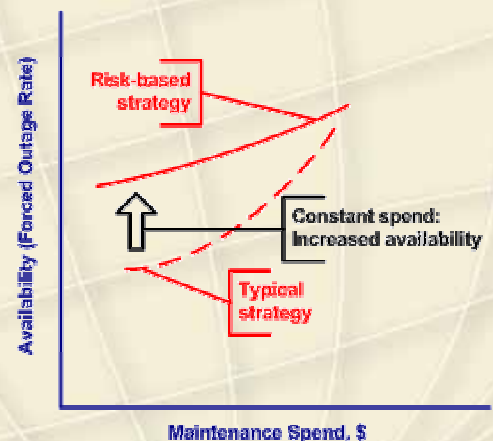
Industry is recognising that benefits may be gained from adopting formal risk-based maintenance (RBM) approaches to plant integrity management through improved targeting and scheduling of inspection and maintenance effort.

RISKWISE *for Boilers*™

- produces an equipment itemised risk and remaining life profile for each plant unit
- allows qualitative as well as quantitative input
- includes a regular updated database of all relevant damage mechanisms
- focus-defocus module allows the user to optimise inspection and maintenance
- allows inspection to be properly targeted
- provides a formal basis for assessing remaining life and safe outage intervals

Benefits in brief

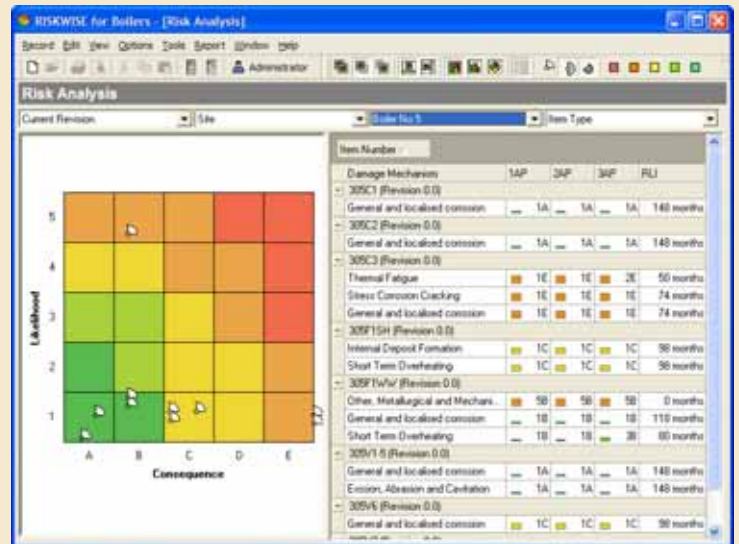
- improved safety
- increased availability
- optimum maintenance spend
- facilitates increased run times, reduced outage time/costs and fewer forced outages
- a true maintenance planning tool
- links with existing inspection and maintenance records or software
- English, Chinese, Japanese and Spanish language versions available



RISKWISE™ is a TWI software product

Key features

- user friendly software, fully transparent – ensures buy-in by users
- audit team approach – accommodates plant experience
- interfaces with computerised maintenance management systems
- time-based risk auditing module – equipment ranked by risk and remaining life
- maintenance frequency based on formal reliability rules – remaining life indicator (RLI) module
- focus/defocus module – facilitates selection of optimum mitigation measures
- fully auditable output – acceptability to insurers/regulators



Risk distribution of components within a unit

Implementation approach

RISKWISE™ can be applied to all types of boilers including heat recovery steam generators and can be extended to turbine plant and balance of plant areas. The following approach is normally adopted:

1. supply the software
2. conduct training in implementation and functionality of the software
3. assist in the implementation at a specified plant – optional
4. software maintenance and upgrade support - optional



Risk comparison before and after risk mitigation

Equipment requirement

- PC (stand-alone or networked)
- MS-Windows operating system (NT 4.0, or higher)

Contact

Please contact riskwise@twi.co.uk or visit our website for up-to-date information on TWI's complete suite of RISKWISE™ products.

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