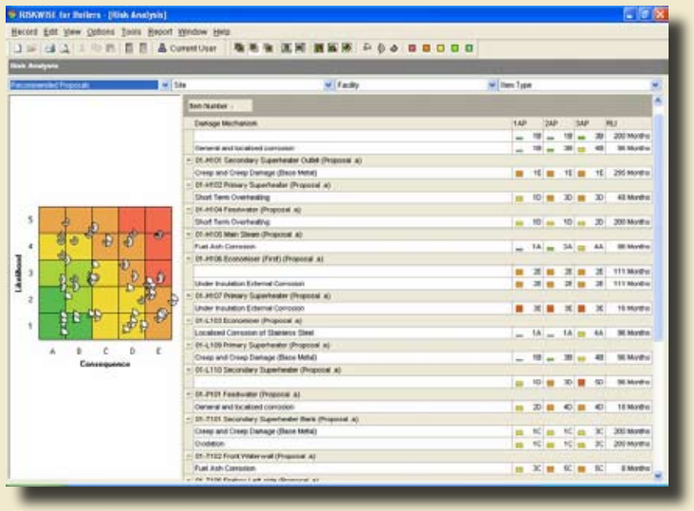
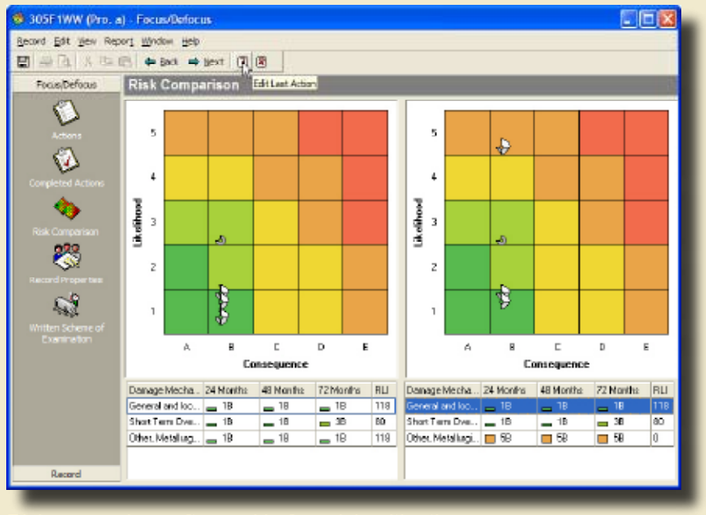
RISKWISE™ - Key features



Risk distribution of components within a unit

- user-oriented software, fully transparent - ensures buy-in by users
- audit team approach - accommodates plant experience
- includes all equipment items, all damage mechanisms and all NDT methods
- comprehensive help text on damage mechanisms, NDT, condition assessment and risk analysis

- inspection and maintenance scheduler based on remaining life indicator (RLI) module
- focus/defocus module - facilities selection of optimum mitigation measures
- fully auditable output - acceptability to insurers/regulators
- standard or customised software training courses enable ease of implementation by users



Risk comparison after and before risk mitigation

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RISKWISE™

Risk-based Inspection (RBI) and Maintenance (RBM) Planning Software

TWI

POWER

Plant-wide Software Suites

RISKWISE *for Combined Cycle Gas Turbines*™ (CCGT)

RISKWISE *for Heat Recovery Steam Generators (HRSGs)* covers pressure parts (tubes, headers, drums *etc.*), ducting and steam pipework

RISKWISE *for Gas Turbines* covers hot section components (blades (buckets), vanes (nozzles), shrouds, burners, combustor, cross fire tubes, transition piece, etc.

RISKWISE *for Steam Turbines* covers HP, IP, LP rotors, blades, casings, nozzles, nozzle boxes, bearings, loop pipes, etc.

RISKWISE *for Balance of Plant (BoP)* covers boiler and turbine auxiliaries (fans, compressors, pumps, condensers, heat exchangers, etc.), generators, transformers, switchgear

Application to gas turbines for CRIEPI in Japan

RISKWISE™ *application at TNB's Pasir Gudang power station in Malaysia*

Extended outage interval for HRSGs at PowerSeraya CCGT plant, Singapore using RISKWISE™

RISKWISE *for Thermal Power Plant*™

RISKWISE *for Boilers* covers pressure parts (tubes, headers, drums *etc.*) and steam pipework

RISKWISE *for Steam Turbines* covers HP, IP, LP rotors, blades, casings, nozzles, nozzle boxes, bearings, loop pipes, etc.

RISKWISE *for Balance of Plant (BoP)* covers boiler and turbine auxiliaries (fans, compressors, pumps, condensers, heat exchangers, etc.), generators, etc.

Application to boilers, steam turbine and balance of plant at Korea East-West Power Company's Danjing supercritical plant

RISKWISE™ *- improved competitiveness for power plants worldwide*

Optimised outage planning of US fossil power plants for Alstom Power Inc using RISKWISE *for Boilers*™

Engineers from The China Special Equipment Inspection & Research Centre (CSEI) undergoing a 3 day interactive training course in the use of RISKWISE™

FEATURES AND BENEFITS AT A GLANCE

- User-friendly qualitative and quantitative input features and electronic reporting of outputs - includes time-based failure risk audit, risk plots (likelihood and consequence), remaining life indicators (RLI), inspection scheduler, and risk mitigation measures for each equipment item
- Can be interfaced or integrated into existing plant computerised maintenance management systems (CMMS) or inspection management systems (IMS)
- Fully compliant with ASME/API guidelines
- Available as individual products and suites in several language versions including English, Chinese, Japanese and Spanish

Using the RISKWISE suite plant engineers and managers are able to improve plant availability and reduce maintenance spend by optimum inspection and maintenance overhaul scheduling of all plant areas

www.twisoftware.com/riskwise

The Thermal and CCGT suites enable risk-based outage planning for the entire power plant