



## Power plant suites launched

Recent developments of RISKWISE for power plants have been consolidated into plant-wide applications.

Steam turbine plant (rotor, blading, casing, valves, bearings, nozzle, nozzle boxes, loop pipes *etc.*) and balance of plant (generator, transformer, fans, compressors, pumps, condensers, heat exchangers *etc.*) have been added to the existing boiler/heat recovery steam generator and gas turbine products.

### COMBINED CYCLE GAS TURBINE SUITE

- RISKWISE for Gas Turbines™
- RISKWISE for Heat Recovery Steam Generators™
- RISKWISE for Steam Turbines™
- RISKWISE for Balance of Plant™

### THERMAL PLANT SUITE

- RISKWISE for Boilers™
- RISKWISE for Steam Turbines™
- RISKWISE for Balance of Plant™

These software suites enable risk-based outage planning for the entire plant. Plant managers are thus able to minimise downtime by optimum inspection and overhaul scheduling of all plant areas.

Contact [riskwise@twi.co.uk](mailto:riskwise@twi.co.uk) for introductory offer prices.

## Extended inspection intervals achieved in Singapore using RISKWISE for Boilers™



ABS Consulting, working with TWI S.E.Asia have successfully obtained a certificate from the Singapore Ministry of Manpower (MOM) granting extended inspection intervals for PowerSeraya Ltd by means of RISKWISE for Boilers™.

The work was performed under contract to Siemens Power (Singapore) who are responsible for maintenance activities at the PowerSeraya combined cycle gas turbine (CCGT) plant. The Occupational Health & Safety Division of MOM has formally granted approval to extend the statutory outage inspection interval to four years on two heat recovery steam generators (HRSG) which were addressed using the RISKWISE for Boilers™ software.

The extended run times can yield considerable economic benefits from the resulting increased production at the plant.

## Training course for TNB incorporates RISKWISE for Gas Turbines™



RISKWISE for Gas Turbines™ has been used in TWI's *Life Management of Gas Turbines* training course for Tenaga Nasional Berhad (TNB). The training course which was run in Kuala Lumpur, Malaysia, involved some 20 TNB engineers.

The software was used to demonstrate the effects of different operational and maintenance parameters on the inspection periodicity. Equivalent operating hours and start-based methods were demonstrated as well as the risk-based approach to inspection and maintenance planning.

### RISKWISE Forums

As part of our continued commitment to high quality support for our users and potential customers, we have created the RISKWISE Forum at [www.twi.co.uk/forums](http://www.twi.co.uk/forums)

As either a RISKWISE™ user or potential RISKWISE™ user you can post questions, view the latest announcements and get help on RISKWISE™ or associated TWI RBI services from our team. Links to the latest information on other TWI software products can also be accessed.

## Oil and gas products packaged

A package of RISKWISE products for oil and gas applications can now be purchased as an 'oil and gas suite' which includes process plant, storage tanks, pipelines and boilers.

## High profile in Bahrain



Since 2004, TWI has been actively involved with the Bahrain Petroleum Company (BAPCO) in application of RISKWISE™ to various units within BAPCO's refinery complex.

BAPCO was one of the first operators in Bahrain to implement RBI which has been successfully demonstrated at their Awaili Refinery.

Following on from this work, TWI recently presented a paper entitled 'Experiences In Implementing Risk-Based Inspection' at the 3<sup>rd</sup> Middle East Non-Destructive Testing (NDT) Conference held in Bahrain.

Within the conference theme of 'Innovative NDT Solutions for Reliability of Petrochemical Industry Facilities', the paper focussed on TWI's experience of implementing RISKWISE™. Key issues regarding the RBI implementation process and how these impact on the quality of the output are covered in the paper. Particular reference is made to the work carried out on process units, storage tanks, boilers and pipelines for BAPCO.