

Remote visual inspections (RVI)



The ability to access the internal structure or cavities of critical power generation components, to measure and digitally record the images and associated information which can be viewed and assessed at remote locations are powerful tools for the modern power station engineer.

The Problem

Visual assessments of plant condition, necessary to continue service or target maintenance are often restricted by the inaccessibility of the location.

The Challenge

To develop techniques for remote visual assessment that provide engineering specialists with adequate images and measurements to make informed plant condition assessments.

Our Solution

Development and investment in a selection of remote visual technology solutions, backed up with operator training, allowing imagery to be gathered from a catalogue of plant components.

Product

- applications in areas such as; gas turbine blades, blade cooling holes, boiler tubes, turbine rotor bores, steam pipework, boiler headers, valves, steam chests etc
- digital recordings of all video footage if required
- catalogue of laboratory samples for technique verification
- links with boiler and turbine engineering expertise for high integrity technique development and analysis.

Benefits

- significant time/cost savings from negating the need for expensive plant 'strip-downs'
- significant time/cost savings in future targeted monitoring programs
- time/cost savings from reduced breakdown situations through the identification and evaluation of internal condition by planned RVI schedules
- extend plant life through improved knowledge of erosion/corrosion/deposit profiles
- satisfy the requirements of plant insurance companys.