



AssetCare Counts #8

ALS Industrial committed to innovation

▶ ALS Industrial develops unique application of the IRIS Ultrasonic Inspection technique for client.



Our Advanced Inspection Team was recently involved in performing specialised inspection tasks on a power station as part of a routine maintenance shutdown. The work included performing inspections on heater and condenser tubes using both Eddy Current and IRIS (thickness measurement of carbon steel tubes).

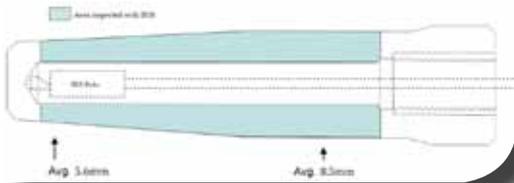
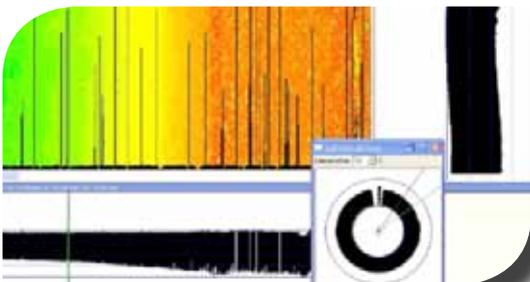
Whilst on site, our team were asked if a reliable, accurate and effective inspection method could be developed for the inspection of Thermowells in-situ. Thermowells are solid, drilled out bar stock and are designed to protect temperature sensors from flow, high pressure and of course, the impacts of harsh environmental conditions. Due to the conditions, access to the external surface of the Thermowell was not possible.

After careful consideration by our experienced lead AIG Inspection Engineer, it was decided that Internal Rotary Inspection System (IRIS) was the best technology to meet the challenge raised by the client.

After a rigorous and considered approach, flooding and maintaining the water in the Thermowell was achieved, allowing us to obtain reliable ultrasonic signals and achieve accurate measurement of wall thickness (see image).

The results of this unique application of an existing specialist technique were very well received by the client. The provision of quality Thermowell condition data, that was previously unavailable, has enabled the client to make informed decisions and pursue appropriate asset management strategies.

ALS Industrial is committed to innovation, and is constantly researching new methods to further add value to our client services.



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