

ADVANCED INSPECTION TECHNOLOGY

Tube Testing

NDTS has the knowledge, expertise and experience to perform Inspection provides a range of systems to inspect tubes in Heat Exchangers, Air Coolers, Feed Water Heaters, Condensers, and similar items using a selection of inspection techniques.

Tubes can be inspected periodically to detect and size discontinuities e.g. pits, erosion, cuts, grooves and wear. Correct technique selection is critical and depends on the tube material; ferromagnetic or non-ferromagnetic and the type of discontinuities expected. The techniques offered are ET, RFET, FL, IRIS and remote Visual Inspection using video probes and boroscopes.

Eddy Current Testing - ET

The ET technique is ideally suited to and is the first choice for the inspection of thin walled non-ferromagnetic tubing such as brass, copper, titanium, and austenitic stainless steels. These types of tubes are typically to be found in heat exchangers, evaporators and condensers.

Remote Field Eddy Current Testing - RFET

The Remote Field Eddy Current technique is specifically suited to ferromagnetic materials such as carbon steel, nickel and magnetic stainless steels.

Internal Rotary Inspection System - IRIS

The IRIS technique is specifically suited to ferromagnetic materials such as carbon steel, nickel and magnetic stainless steels. Ideally suited to the inspection of carbon steel tubes but can be used to inspect any material that is conducive to UT testing

