

Inspection par Courants de Foucault Eddy Current Inspection













EDDY CURRENT INSPECTION





Principle : Currents are induced into an object being inspected using a coil integrated probe. The presence of a fault will modify the circulation of these currents. This variation is captured by measuring the change in the impedance of a pickup coil.



INSPECTIONS WITH EDDY CURRENT

Inspection of castings



Inspection of forgings



Inspection of tubes





















EQUIPMENT USED FOR EDDY CURRENTS



AERO & INDUSTR

Impedance plan Equipment

High or Low Frequency probe

Rotary test for bores

Sizes with notches of standard depths

Conductivity measurement

Coating thickness on metals



CALIBRATION Eddy current

Calibration on 3 standard notches







Conductivity and Coating Measurements





INSPECTION Eddy current on A/C





Identified fatigue crack





Confirmation at MPP in RX





Capacity

Method	Equipment / Techniques	STAFF
RT	 Digital radiography (from 50KV – 320KV) 	2 RT Level1
Radiographic Testing	 Resolution from 50 μm – 200 μm 	2 RT level 2 and 1 RT3
ПТ	 Immersion Testing 	1 UT level 1
Ultracopic Tecting	 Thickness measurement 	2 UT level 2
Ultrasonic resting	 Phased Array Pulse Echo 	1 UT level 3
ΡΤ	 Red Dye or Fluorescent penetrant 	4 PT level 2
Penetrant Testing	 Alkaline or Solvent Degreasing 	1 PT level 3
MT	Hand yokes	3 MT level 2
Magnetic Particle Inspection	 Stationary MT bench 	1 MT level 3
IRT	 Hot air heater or 4 x 1000 W Halogen heaters 	2 IRT level 2
Infrared Thermography Testing	IR Camera Flir T450sc	1 IRT level 3
ST	 Hot air heater or 4 x 1000 W Halogen heaters 	1 ST level 1
Shearographic Testing	 Optrion Digital Shearographic Camera 	1 ST level 3
ET	 High and low Frequency Eddy Current Testing 	2 ET level 2
Eddy Current Testing	 Rotating Probe ET 	1 ET level 3
VT	 Direct VT of welds, castings and composite parts 	1 VT level 2
Visual Testing	 Indirect VT (endoscopy and digital microscope 220x) 	1 VT level 3



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