

Inspection par Radiographie Radiographic Inspection















Principle

<u>Principle</u> : Radiography is a method utilizing an X-ray tube that emits X-ray radiation which passes through the object being inspected. The image is captured by a digital detection process (formerly a film process). The digital detection process takes a few seconds, allowing a prompt image display ready for dark room interpretation by a certified level 2 RT inspector. The entire RX radiography shooting technique must be validated by a certified level 3 RT Engineer.







Application

Foundry inclusion



Delamination - composite rib



Welding defects



Shrinkage (casting defect)





Foreign body - composite



Determination of % Porosity







Interpretation



VIEW B2

NDT Services & Polishing

According to EN 12517-2 Acceptance Level 2

Denser inclusions (3.1mm max): 6.30mm Porosity (3.3mm max): 1.40mm Cluster porosity (4% max): 2% Undercut (1mm max): 40mm

NON CONFORMITY







Equipment

Radiography - portable digital technique outside MPP

Battery portable tube



Wifi high resolution detector





Maestro Xris software on dedicated laptop



Inspection

Radiographie digital – Flat Panel Xris at MPP (internal method)





Wider Flat Panel 400x 400 mm

320kV tube - detector in the room











Tomography



Application on composite Porosity Detection



Application on metal Crack Detection



Alkar Porosity panel













Capacity

Method	Equipment / Techniques	STAFF
RT	 Digital radiography (from 50KV – 320KV) 	2 RT Level1
Radiographic Testing	• Resolution from 50 μ m – 200 μ m	2 RT level 2 and 1 RT3
	Immersion Testing	1 UT level 1
UI Illtracopic Tecting	 Thickness measurement 	2 UT level 2
Ultrasonic lesting	 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
ΜΤ	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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