

NONDESTRUCTIVE TESTS

We offer:

- tests of full structures, components and their elements,
- detection and definition/diagnostics of technological and exploitation defects,
- detection of defects such as: material discontinuities - external and internal (blisters, cracks, inclusions, delaminations, laps, cold shuts, leaks, welded joints defects, etc.), development of methodologies and test programmes at different stages of the production
- process in the industrial, field and laboratory environments, temporary tests and non-standard non-destructive condition diagnostics, including
- preparation of manuals and technical documentation,
- development and organisation of training courses.

Magnetic tests

Scope:

- Detection of surface and subsurface defects of ferromagnetic materials.

Equipment:

Defectoscope yoke Y6 Magnaflux, Parker, Bycosin magnets, fluorescents and black magnetic ink Magnaflux, UV and white light, magnetic indicator strips, references.

Ultrasonic tests

Scope:

- Detection of internal material discontinuities and identification of locations, configurations and sizes of discontinuities,
- Ultrasonic thickness measurements.

Equipment:

GE Inspection Technologies Phasor XS defectoscope with technical probes and references, Thickness Gage PVX.

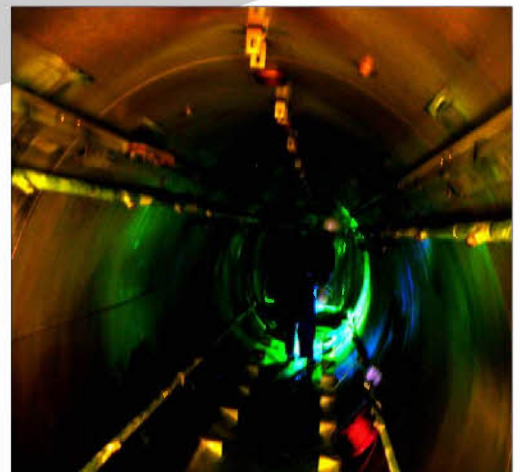
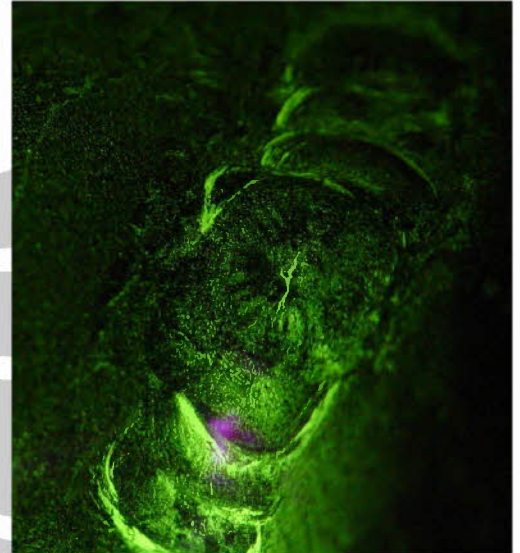
Penetrant tests

Scope:

- Detection of open surface discontinuities of non-porous materials: metallic and non-metallic.

Equipment:

Magnaflux penetrants, UV and white light, light meters, references



NONDESTRUCTIVE TESTS

Visual tests

Scope:

- Detection of surface discontinuities and shape defects of the elements using optical instruments,
- Assessment of the surface quality,
- Quality control after repair.

Equipment:

Equipment used for fiber endoscope testing (OLYMPUS IF-4D ,camera Olympus, monitor JVC).



Eddy current tests

Scope:

- Testing of materials with electrical conductivity,
- Detection of surface and subsurface defects, coating thickness measurements, comparative structural studies.

Equipment:

GE Inspection Technologies Phase3 3d and Institute Dr Förster defectoscopes with sets of specialized probes and references for defects, conductivity and the corrosion degree.



Radiographic tests

Scope:

- Detection of internal material defects,
- Volumetric testing of objects,
- Testing of glued, welded and soldered joints,
- Verification testing of assemblies, testing of electronic components and subassemblies.

Equipment:

Computer Tomograph system v|tome|xL 240 GE Inspection Technologies.



X-ray diffraction testing

Scope:

- Measurement of residual stresses in the samples provided by the client,
- Measurement of stresses at points of construction, facilities, etc.,
- Measurements of stress "in situ".

Equipment:

X-ray diffractometer Xstress3000 with a goniometer G2.