



NON DESTRUCTIVE TESTING | HEAT TREATMENTS | INSPECTION OF INDUSTRIAL PLANTS

COMPANY OUTLINE

History

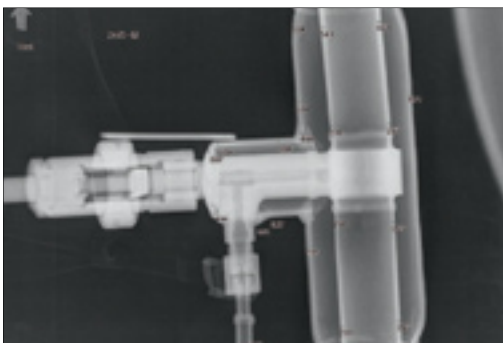
Italsabi is a company specialized in Non Destructive Testing and Heat Treatments for structural integrity evaluations. Founded in 1973 it operates both on a national and international level.

Its know-how has been acquired in a thirty five years experience in field and through the high potential of its very qualified personnel.

All activities are carried out in accordance with the International standard for quality management system ISO 9001:2000.

Key activities and performance highlights

- Significant presence all over the national territory;
- 80 competent technicians operating in field, more than a half of them certified according to standards EN-473/ISO 9712 and SNT-TC-1 for various inspection methods;
- Accredited supplier for ENI, POLIMERI EUROPA, SYNDIAL, SAIPEM, SNAMPROGETTI, SNAM RETE GAS, ERG, ESSO, EXXON MOBIL, API, SASOL ITALY, TAMOIL, BASELL, YARA, EDISON, ENEL, ALSTOM;
- Always updated and upgraded range of technical equipment, which guarantee the supply of highly innovative services;
- Constant training of our personnel in compliance with Safety and Security Regulations;



▲ Computerized radiographic image



▲ Metallographic replications service



SERVICES

NDT Services

- Industrial Radiography
- Computed Radiography
- Ultrasonic Tests, flaw detection and thickness measurement
- Advanced Ultrasonic Testing (TOFD, PHASED ARRAY, GUIDED WAVES, P-SCAN)
- Eddy current
- Acoustic Emission Testing
- Column Scanning
- Magnetic Particle Inspection
- Liquid Penetrant Examination
- Infrared Thermal Inspection
- Videoendoscopy
- Leak Tests (Elio test and Vacuum box)
- PMI (Positive Material Identification)
- Metallographic Replications

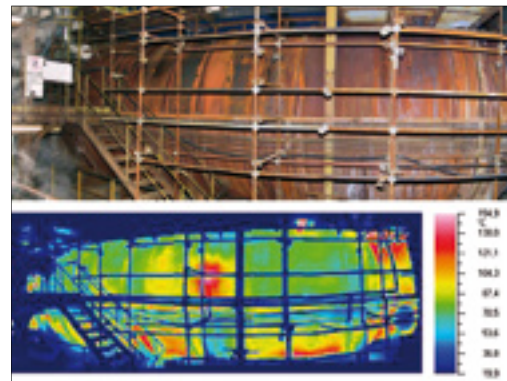


▲ Critical defect examination with ultrasounds

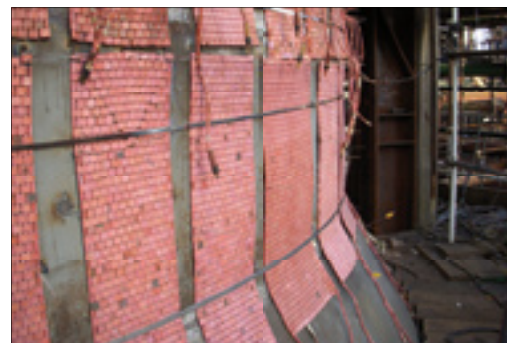
Heat treatments

Heat treatments are carried out with up-to-date low voltage equipment, as prescribed by safety requirements:

- With electric panels
- Induction
- With heated air using burners



▲ Infrared thermal image of a damage furnace



▲ Post weld heat treatment preparation of a circumferential weld of a column

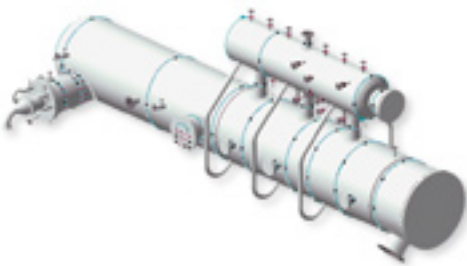


ETHICS & NEW TECHNOLOGIES

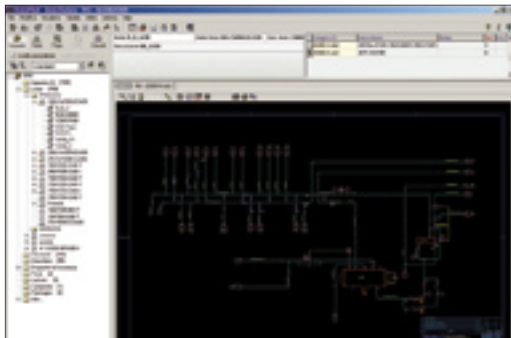
Safety & security at work

Italsabi places great importance on ensuring the safety, security and health of workers in every aspect related to work activities, mainly by keeping personnel informed and updated on all matters related to safety and security at work and by the constant monitoring of our qualified personnel on field. Great value is also given to the implementation of prevention and protection programs and to the constant activity of information, consultation and training involving all company's areas and departments.

The establishment and development of a safe and suitable working environment, which preserves and protects the physical, mental integrity and well-being of personnel, is not just an unavoidable duty but has turned into the right choice, as seen by the significant improvements achieved, in terms of competency, efficiency and reliability.



▲ Example of 3D drawing of vessel



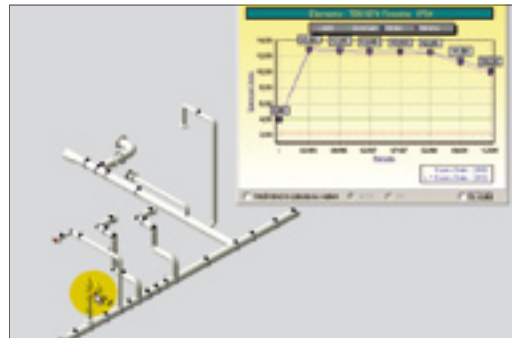
▲ Line list with P&ID

Inspection manager

Italsabi makes use of Inspection Manager, a software created by Antea s.r.l., for the management of data resulting from NDT.

Inspection Manager is widely used by refineries and chemical plants for NDT management and corrosion monitoring. Its main functions and characteristics are listed as follows:

- Quick and easy start-up if P&ID are available in CAD format
- Integrated RBI management
- A very useful instrument for inspection scheduling
- Flexible solution for managing most of NDT results
- 3D user friendly modeller, for sketches and equipment and 3D import from PDS models
- Manage the 3D representation of inter-conneting pipe racks
- Manage the geo-referenced representation of pipelines and flowlines
- SAP and MAXIMO bi-directional interface
- Integrated system for the management of the PED european law



▲ Graphical view of selected line with thickness measurement and trend curve for single point



HEADQUARTERS & OFFICES



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SINCERT

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THE INTERNATIONAL CERTIFICATION NETWORK



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