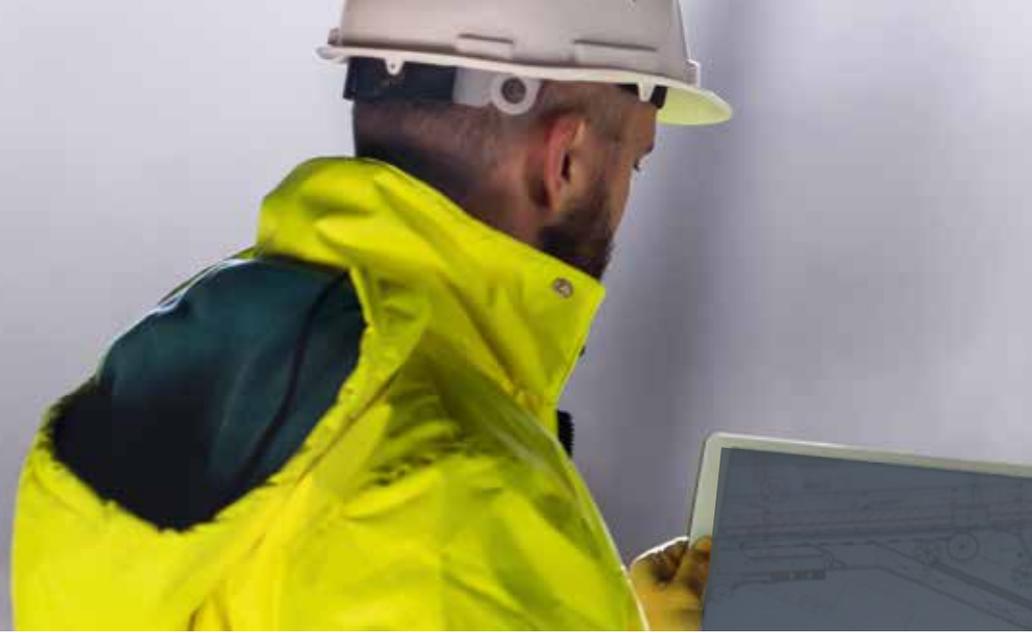


INDUSTRY SERVICES

CAPABILITY STATEMENT

Delivering trusted and innovative global integrated solutions that ensure quality, safety and reliability in your operations, supply chains and business processes





Intertek

As a world-leading specialist provider of Quality Assurance, Testing, Inspection and Certification services Intertek understands that the success of the project delivery depends on the timely completion of project milestones, quality, cost and HSE performance and that an effective Inspection program plays a critical role in achieving these objectives.

Intertek provides quality and safety services that not only help customers provide quality products and services but also adds value to their business.

We deliver these services through our global network and as a result have developed an unrivalled reputation for fast and detailed execution of work.

Technical Inspection Specialists (Inspectors, Expeditors & Auditors)

Intertek has had over 130 years in supplying Surveillance Inspection, Expediting and Auditing Services. Surveillance Inspection Services, often referred to as “Third Party Inspection”, “Witness Inspection”, “Vendor Surveillance Inspection”, “Supplier Quality Activities” or “Source Inspection” is provided by Intertek throughout Australia and Internationally.

Intertek have access to a vast number of qualified, professional specialists in Australia, USA, Central Europe, China, and elsewhere around the world who are able to provide project support. Intertek’s technical personnel work across a variety of specialist disciplines and experience levels (inspectors, expeditors, technical authorities and auditors).

Project History & Capacity

With some 12,000 inspectors globally, we possess the capacity to perform the work required.

On recent Australian projects, Intertek has been successfully delivering Inspection and Surveillance Support Services to Australia’s largest resource projects.

Our core-staff are all Intertek fulltime employees – this includes inspection staff.

Supplementary (in house) inspection staff sub-contract to Intertek under the same rigorous qualification requirements as our fulltime staff inspectors.

Inspection

Intertek’s expert vendor inspectors consistently and efficiently manage complex supply chains to ensure that sourced products and equipment meet customer and industry quality standards.

We have a global network of highly experienced inspectors, ready to carry out independent assessments of your procured material and equipment, including reviewing and witnessing special processes; assessing the quality of workmanship and dimension condition and reporting results.

Our inspectors are strategically located in the world’s major industrial centres, ready to deliver timely, cost-effective support, with the added value of in-depth local knowledge.

Our advanced reporting systems ensure that each element of every supply chain service is traceable, accounted for, and meets your expectations.

Intertek Australia would be nominated as the contract control and principal coordination office for the project.

Our Australian operation is experienced at working simultaneously on multiple large contracts and consistently works to exceed Client requirements and expectations.

Expediting

Our expediting services include preventative and monitoring of production designed to pre-empt potential delays or revisions and work to get things back on schedule if deadlines are missed.

The process includes, but is not limited to, order verification, review of production schedules and specifications, as well as validation of packaging and shipping details.

As your expediting partner, we are your eyes and ears, working with every link in your supply chain to ensure deliveries are made on time and to specification.

Auditing

We can help you gain a complete understanding of vendor capabilities through a systematic and independent vendor assessment.

Our accredited auditors carry out independent audits precisely tailored to meet your needs.

Audits typically focus on a vendor’s systems, processes and capabilities.

We can conduct pre-contract assessments before any contracts are signed.

Our auditors are qualified to carry out compliance testing to key international standards, for example quality (ISO 9001), health and safety (ISO 18001), environmental management (ISO 14001), and laboratories (ISO 17025).

Technical Staffing Services

Project success relies on having the right skills in the right place at the right time. To meet the technical staffing demands of complex projects, companies need to recruit experienced technical specialists.

As a leading supplier of contract and permanent placement specialist technical personnel, we source, recruit and mobilize highly qualified and experienced professionals for the world’s largest companies in industries such as energy, engineering, construction, and oil and gas offshore projects.

We recognise the value of sourcing staff locally to help you meet local employment requirements, and we also understand that some skill sets are so specialised they demand a comprehensive international search.

All of our local offices are linked to our online recruitment database, a global network sharing resources and information. Recruitment doesn’t stop at providing you with the best candidates.

We organize visas, work and resident permits, travel logistics and ‘meet and greet’ services for newly arrived employees.

Additionally we assist with tax compliance requirements, address health and safety needs, and in the event of a situation we can help coordinate emergency medical evacuation.



Technical Specialist & Project Coordinator Competency Program Summary

Beginning in late 2007, Intertek Technical Services Pty Ltd began implementation of a worldwide, formal Competency Program.

The training courses for the Competency Program focus on the duties & responsibilities of Project Coordinators and Inspectors.

These Charter Training courses introduce Inspectors & Coordinators to Intertek's Surveillance Operating Procedures (SOP's), as well as highlight the importance of the various inspection assignment documents, communication with clients, HSE, Code of Conduct, inspection reporting & timeliness of reporting.

Additional components of Intertek's Competency Program for our Technical Specialists include: an annual, visual acuity exam, minimum experience levels, and the successful completion of the technical examinations, referred to as Discipline Validation Assessments, (DVAs).

The assessment of all of Intertek's Inspectors to verify technical competency began in early 2010 with the launch of on-line examinations, (DVAs), for core competencies, eg Materials Inspection, Welding Inspection, Non-Destructive Examination (NDE), and Preservation and Coating.

Asset Integrity Management (AIM) Capability

Intertek has a proven track record in Australia and globally. With a current staffing level of close to 100 dedicated In-Service Inspection (ISI) & NDT professionals across Australia and 1000+ globally, Intertek has the capability to meet demanding scopes of work.

Implementation of our AIM Program may include:

- Non-destructive testing / examination – full suite including regular and advanced methods
- Condition monitoring

- Corrosion management strategies
- Plant maintenance inspection services
- Fitness for service evaluations
- Material testing and metallurgical analysis
- Mechanical integrity programs
- Process optimization and operational support
- Reliability and risk based inspection (RBI)
- Failure analysis and forensic engineering
- Aware™ inspection data management system (IDMS)
- 3D laser scanning and dimensional control
- Audit, gap analysis and benchmarking
- Development of management system and key performance indicators (KPI)
- Design, materials, corrosion review – design verification
- Data collection and the development of documentation
- System, process, production chemistry, corrosion evaluation
- Identification of safety critical equipment (RBI, RAM)
- Inspection, maintenance, testing and monitoring, inspection planning
- Risk management and deficiency resolution, evergreen QA, QC
- Integration of key elements, processes and tools (including software tools)
- Training

Non-Destructive Testing (NDT) In-House Services Offered

Ultrasonic Inspection

- Weld Examination
- Wall Thickness Measurement
- Corrosion Monitoring
- Lamination And Bonding Inspection
- Phased Array
- Bore Oxide Measurement Weld Examination

Radiographic Inspection

- Weld Examination
- Corrosion Monitoring
- Profile Radiography
- Digital Radiography

Magnetic Particle Inspection

- Fluorescent and Non-Fluorescent
- Weld Examination
- Component Inspection

Penetrant Inspection

- Fluorescent and Non-Fluorescent
- Weld Examination
- Component Inspection

Eddy Current Inspection

- Conductivity Testing and Materials Sorting
- Weld Inspection
- Tubing Inspection
- Detection of Surface and Sub-Surface Defects

Helium Inspection

- Integrity Verification and Leak Detection of Closed Systems Using Helium Gas

Magnetic Flux Leakage Detection (Tank Floor Inspection)

- Detection of Corrosion on the Inaccessible Surface of Tanks and Insulated Surfaces Using Magnetic Flux Leakage

Advanced NDT

Complementing conventional NDT methods, Intertek's advanced NDT services use cutting-edge instrumentation to deliver accurate and reliable inspection output with greater control over instrument configuration and data.

These methods provide prompt inspection, increased probability of detection of flaws and improved repeatability of inspection data.

Some of the advanced techniques that we offer include corrosion under insulation inspection, time-of-flight diffraction and phased array.

SYSTEMATIC APPROACH TO QUALITY & SAFETY



ASSURANCE



TESTING



INSPECTION



CERTIFICATION

In-Service Inspection

Our In-Service Inspection (ISI) is based on NATA accreditation No: 13770 & 19362 to ISO17020 and includes the inspection activities within our scope of accreditation but not limited to:

- Fabrication inspection for Australian Standards (AS1210, AS1228, AS3920.1, AS4037 etc.), European Pressure Equipment Directive 97/23/EEC as amended and harmonised standard of pressure equipment and piping covering hazard levels A,B,C,D,E from AS 4343: 2005
- Steel fabricated structure and assembly inspections Codes: AS 4100, AS/NZS 1554 for Australian and international clients
- In-Service Inspections to AS/NZS 3788-2006 for pressure equipment (PE) such as boilers, steam pressure vessel, QAC vessels, process vessels, static storage vessels, storage tanks, pressure piping, transportable vessels and pressure relief devices

Metallurgy / Failure Analysis

Intertek Failure Analysis laboratories work to determine the cause of a failure and provide the customer with insight for solving the problem.

Forensic investigation, engineering, and failure analysis expertise are available for a wide range of products and materials, using an extensive range of proven techniques and applications.

Areas of expertise:

- Examination of fractures to determine failure mode and cause(s)
- Examination of corrosion failures, identification of corrodents and cause(s) of corrosion
- Investigation of manufacturing issues and preparation of modifications
- Evaluation of materials and components for properties and conformance to specifications
- Microstructural analysis of materials and advice on materials selection

Intertek Failure Analysis group has decades of practical experience in mechanical and environmentally induced failures in areas of:

- Insurance
- Litigation
- Manufacturing
- Construction
- Mining
- Petrochemical
- Statutory Bodies
- Maritime
- Agriculture

Engineering Services

Managing risk and the reliability of infrastructure, facilities and equipment is challenging.

Intertek's engineering experts provide customized engineering services through specialization in asset integrity management and life management.

We combine the understanding of process properties with a detailed knowledge of materials and equipment.

From mechanical integrity services and forensic engineering to process safety management, failure analysis and risk-based inspection, we help our clients minimize costs, improve efficiency, meet safety standards, and ensure that installations conform to operational and design parameters.

Intertek Surveying Inspection Services; 3D Laser Scanning & Dimensional Control

We offer an exceptional solution that delivers high definition 360-degree by 320-degree, photorealistic panoramic scans to a 3D CAD surface model.

Our 3D laser scanning instrumentation is fast and accurate, suitable for the survey of offshore and onshore infrastructure to support engineering design and decisions.

Our surveyors can quickly build up a 3D picture of the site. Our laser scanners are equipped with sophisticated cameras allowing colour mapping of the point clouds.

Point cloud data is geo-referenced to plant coordinates with the help of an industrial surveying methodologies and dedicated spatial management software.

These as-built high-definition 3D data sets produce a virtual plant and facility environment that can be integrated directly with CADD systems to interrogate and clash check against new or existing Design Models.

These models can be integrated into common Engineering packages or dedicated piping software such as AVEVA PDMS.

Dimensional control applications include, but are not limited to:

- New-build Modular (9.5K tons/ea) Piping / Structural Integration Assurance
- FPSOs, TLPs, SPARs, Semi-sub, Jackets, MinDocs, Compliant Towers, Onshore infrastructure
- Ship Repair / Build involving Hull Alignment Surveys
- Fabrication Verification Surveys for Steelwork and Pipe



12,000+
AUDITORS, INSPECTORS &
TECHNICAL PERSONNEL



340,000+
INSPECTIONS & OTHER
TECHNICAL VISITS ANNUALLY



100+
COUNTRIES



80+
LANGUAGES



1,000+
LABS & OFFICES



44,000+
EMPLOYEES



ASSURANCE & TIC
GLOBAL MARKET LEADER

OUR SECTORS



PRODUCTS



TRADE



RESOURCES



 [intertek.com](https://www.intertek.com)



intertek
Total Quality. Assured.