

TANK INSPECTION SERVICES



Oceaneering Asset Integrity offers a comprehensive Storage Tank inspection service individually tailored to suit client's specific requirements. Inspection packages can include full engineering assessments performed to EEMUA 159 guidelines and API 650 / 653 requirements with formal reporting detailing the suitability of the tank to remain capable of current service. Tank integrity including remaining life is estimated from engineering calculations based on critical data collected by a range of NDT techniques and Civil Engineering survey results.

Risk and Reliability

The application of risk and reliability based techniques for optimizing inspection and maintenance activities follows the trend in the industry worldwide to move away from a time-based maintenance approach to a condition monitoring approach. Proven to work in many areas of industry it is now

recognized that the technique can be usefully applied to the total maintenance approach for conventional storage tanks. Oceaneering, with its in-depth knowledge of Risk Based Inspection (RBI) and reliability centered maintenance methodologies is at the forefront of offering these innovative and cost effective approaches.

Non-Destructive Testing

Oceaneering is a worldwide provider of Non-Destructive Testing providing a comprehensive range of conventional and advanced techniques.

The NDT field has advanced significantly over recent years with the introduction of new technology that has enhanced the inspection process. Oceaneering has established itself at the forefront of this technological revolution by a process of investment in equipment and training.



TANK INSPECTION SERVICES

NDT Techniques

- Conventional NDT techniques (RT, UT, MPI, and DPI)
- Computed Radiography
- Corrosion Mapping
- TOFD
- Magnetic Flux Leakage (MFL)
- Remotely operated scanner vehicles deployed with a range of inspection capabilities
- Pulse Eddy Current (PEC) for annular plate inspection

Rope Access

Access for inspection is often difficult and costly. The conventional approach of scaffolding often takes many days preparation and will inevitably increase the risk of a safety related incident. Oceaneering operate a Rope Access department who provide a safe and cost effective answer. The Division is a full member of IRATA (Industrial Rope Access Trade Association) which means full involvement and continuing commitment to high levels of Safety and training using IRATA qualified personnel.

Service Range

- Non-Destructive Testing (NDT)
- Organization and certification requirements
- Types and definitions of inspections
- Types of corrosion and deterioration
- Welding, materials and fabrication problems
- Corrosion and minimum thickness evaluation
- Estimated remaining life
- Inspection interval determination and issues affecting intervals
- Inspection safety practices
- Inspection records and reports
- Inspection plans for repair and alterations
- Thickness and dimensional measurements and tolerances
- Alternatives to the required internal inspection intervals
- Change of service effects on suitability for continued service
- Evaluation of tank bottom conditions
- Evaluation of tank foundation conditions
- Evaluation of the condition of anchor bolts, pipe connections, ground connections and insulation
- Confidential inspection audits for compliance to codes and standards
- Pre-tank outage assessments

The Company offers a proven record of delivering safe, cost effective and technically innovative services to clients within the Oil, Gas, Petro-Chemical, Water and Power Generation industries at locations worldwide.

