



## Quality Assurance Services

### NDT, Inspection and Material Testing

TCR ARABIA, based in Dammam, is a service partner company of TCR Engineering Services. Since inception in 1973, TCR Engineering has provided quality assurance services to Oil and Gas, Petrochemical, Aerospace, Automotive, Chemical Processing, Defense, Power, Water Treatment, Scrap and Capital Goods manufacturing industry verticals.

TCR ARABIA provides timely and accurate results reporting of material properties, strong NDT and plant shutdown management, stringent product inspections, in-depth engineering consulting and contract research to ensure materials and products have assured quality and enhanced performance; giving customers a competitive advantage in the marketplace.

We believe our people are our strength. With deep commitment to their tasks, and a quest to better their achievements, our highly skilled teams are known to constantly endeavor to develop innovative and superior solutions for all our customers.

Simply stated, our people undertake quality assurance services that make your plants better and your operations more efficient.



We are a global company, acting locally on your behalf. Our service professionals know your business and how to get the most from your processes.

#### TCR Arabia

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#### Material Testing Lab

- ◆ Mechanical Testing
- ◆ Wet Chemical Analysis
- ◆ Chemical Analysis with Spectrometers
- ◆ Sour Gas Corrosion for HIC and SSC
- ◆ Welder Qualification
- ◆ SEM and EDAX Analysis
- ◆ Micro and Macro Examination
- ◆ RoHS Compliance Services
- ◆ Image Analysis Software
- ◆ Laboratory Information Software
- ◆ Contract Metallurgical Research

#### Engineering Consulting

- ◆ Failure Analysis
- ◆ Risk Based Inspection
- ◆ Remaining Life Assessment
- ◆ Fitness for Service (API 579)
- ◆ Third Party Inspection
- ◆ Welding & Pipeline Inspection
- ◆ Paint Inspection
- ◆ Inspectors for Shutdown Management
- ◆ QA/QC Inspection
- ◆ BGAS & NACE inspectors
- ◆ CSWIP, AWS Inspectors
- ◆ ASNT Level II & Level III Services
- ◆ Training of Welding and NDT Methods

#### NDT Services and Projects

- ◆ Automated UT Using ToFD
- ◆ Post Weld Heat Treatment (PWHT)
- ◆ Helium Leak Testing
- ◆ Infrared Thermography
- ◆ Eddy Current Testing
- ◆ Corrosion Mapping
- ◆ In-situ Metallography
- ◆ Positive Material Identification (PMI)
- ◆ Paint & Coating Thickness Testing
- ◆ Ultrasonic Testing, UT Thickness
- ◆ MPT, DP, LPT, WFMPi Testing
- ◆ Ferrite Measurement, Hardness Survey
- ◆ Holiday Detection