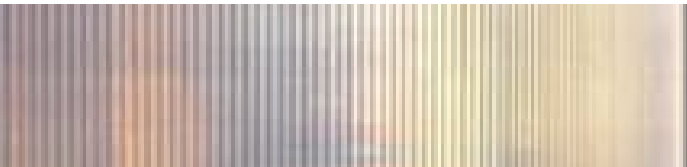
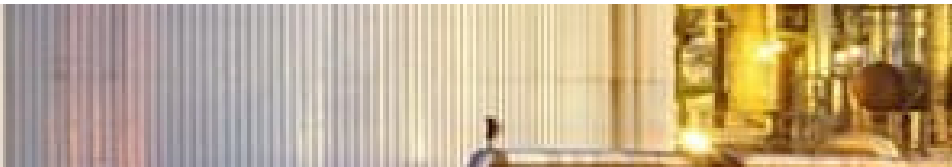
weld spec

Inspection Services

AN HMT COMPANY

CONSTRUCTION | MANUFACTURING | REFINING &
PETROCHEMICAL | POWER | PIPELINE | MARINE





ABOUT **WELD SPEC**

Weld Spec was established in 2002 with the goal of providing superior NDE and Inspection services to our clients with trained, certified and well-equipped personnel. In 2023, Weld Spec joined HMT LLC, the global leader in above-ground storage tank solutions and a key resource for oil and gas environmental solutions. The partnership of Weld Spec and HMT provides a full-service approach to our customers with inspection and repair services.

INDUSTRIES SERVED



CONSTRUCTION | MANUFACTURING | REFINING & PETROCHEMICAL | POWER | PIPELINE | MARINE

"Weld Spec, Inc. places a commitment to understand, meet, and when possible, exceed our customer's requirements through continuous improvement of our processes. We are dedicated to delivering inspection and testing services on-time at the most competitive cost possible"

SAFETY

Safety is the first core value at Weld Spec. We operate with full time safety professionals charged with the responsibility of making sure that employees receive proper regulatory and client-specific safety training and understand the importance of working safely for the sake of themselves and their loved ones.

These safety professionals manage the HSE and Radiation Safety programs in compliance with ISNetworld, PICS, DISA, TDSHS, and US DOT. They ensure compliance through continuous review of employee practices, adherence to all safe work practices and procedures, and perform program and jobsite audits.

OUR STAFF IS TRAINED AND QUALIFIED IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS:

- ASNT-TC-1A
- ACCP

MANY OF OUR STAFF HAVE ACHIEVED CERTIFICATION IN NATIONAL PROGRAMS INCLUDING:

- ASNT LEVEL III
- AWS CWI
- API 510, 570, 653
- COATING
- API QUTE/QUSE

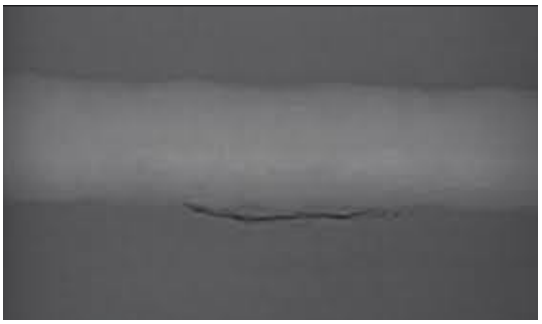
SAFETY | HONESTY & INTEGRITY | SERVICE EXCELLENCE | CUSTOMER SATISFACTION

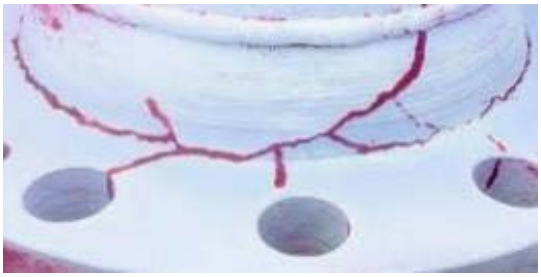


NONDESTRUCTIVE TESTING **SERVICES**

CONVENTIONAL NDE SERVICES

- Radiographic Testing (RT)
- Ultrasonic Testing (UT)
- Magnetic Particle Testing (MT)
- Liquid Penetrant Testing (PT)
- Positive Material Identification (PMI)
- Hardness Testing
- Delta Ferrite Testing

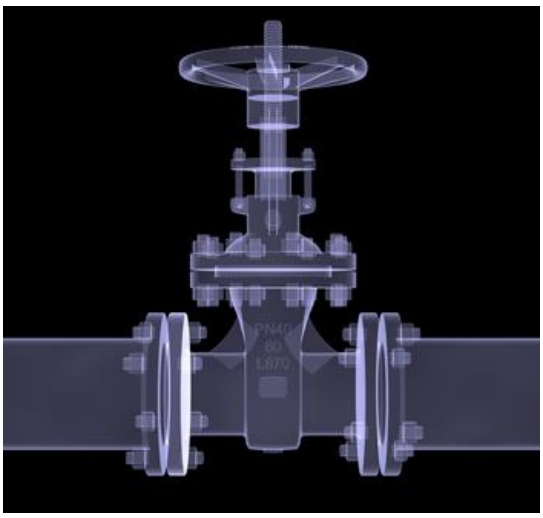


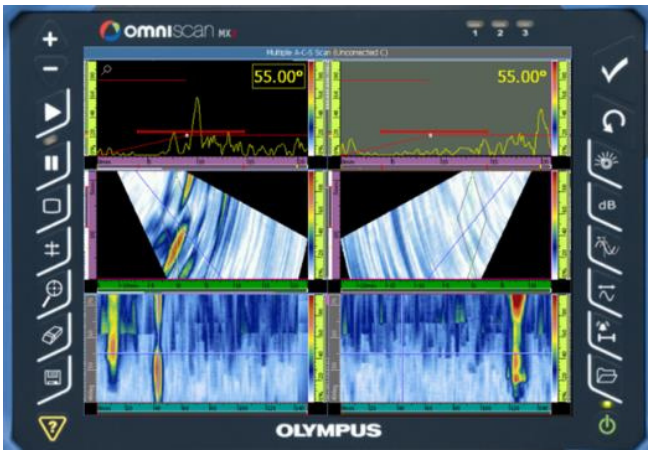


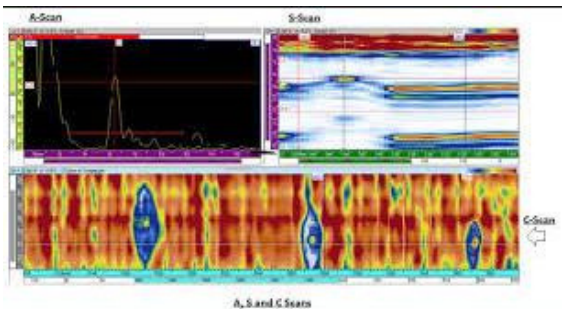


ADVANCED NDE SERVICES

- Computed Radiography Testing (CR)
- Digital Radiography Testing (DR)
- Phased Array UT Testing (PUAT)
- Automated UT (AUT)







WELD SPEC SERVICES



THIRD PARTY INPECTION

Our inspectors are skilled in API 570, API 510, CWI, and visual inspection. Our goal is to provide total encompassing asset integrity to our clients. Weld Spec provides services to Capital Projects, Maintenance Construction and Inspection Projects, Turnaround and on-Stream Services to major industries including Refining, Petrochemical, Oil & Gas, Power Generation, and Wind Energy industry sectors.

- Project Management & Support Services
- Turnaround Inspection Services
- On-Stream Inspection Services

NON DESTRUCTIVE TESTING

Our Inspection services provide comprehensive asset integrity management solutions that will solve your business's unique challenges.

- Conventional NDT
- Advanced NDT



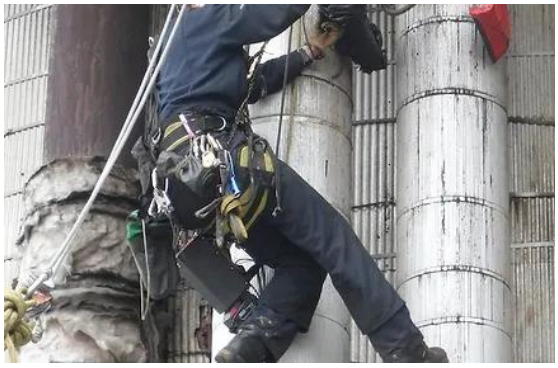


MECHANICAL & METALLURGICAL LAB TESTING

- Weld Testing, Procedure Specification and Qualifications
- Mechanical Testing & Chemical Analysis
- Metallurgical Engineering/Consultation & Failure Analysis

ROPE SERVICES

Our Rope Access team provides a safe and cost-effective way to solving your problems by limiting the number of people exposed, minimizing downtime and footprint. We provide flexibility and versatility and simplicity of timely and efficient rescue. We offer Traditional NDE, Advanced NDE and Maintenance.





DRONE SERVICES

Using certified, professional pilots to operate drones, Weld Spec Inc. enables inspections on assets in hard-to-reach places, inspecting operating equipment, identify flaws in insulation and defects on in-service equipment which will aid in maintenance plans.

Our drone services can do a full 360-degree aerial inspection safely from the ground. Thermal Imagery helps detect hotspots early on to prevent costly repairs.

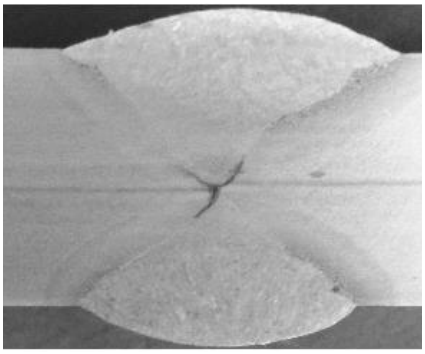
LAB TESTING **SERVICES**

MECHANICAL TESTING

- Tension (Tensile) Test
- Reduced Section Flat or Machined Round
- Bend Test / Break Test
- Brinell & Rockwell Hardness Testing, Vickers Microhardness Testing
- Impact (Charpy) Testing
- Micro-Etch Examination of Prepared Tube Sheet Mock-up
- Photomicrograph
- Stress Relieve per ASME Code
- Elemental Analysis by Optical Emission Spectroscopy (OES)



METALLURGICAL ENGINEERING



- Turn-Key Metallurgical Failure Analysis Service
  - Consulting
- Rush and Expedited Services Available as Needed
- Corrosion Testing per ASTM G48, A923, A262
- Carburization Assessment per Coating TM0498
- Boiler Tube DWD per ASTM D3483 Method C
- Ferrite Volume Fraction Determination per ASTM E562
- Grain Sizing per ASTM E112

WELD TESTING

WELDER QUALIFICATION (WQ)

Weld Spec has 30 test booths for in-house welder qualification testing in SMAW, GTAW, GMAW and FCAW welding processes. All base materials are machined to required joint tolerances in-house and all materials and consumables are traceable and certified. If needed, we can also oversee welding and testing on any uncommon customer-supplied materials.

WELD PROCEDURE QUALIFICATION (PQR)

Procedure qualification test coupons can be welded at our facility to independently monitor welding parameters if necessary or alternatively, can be welded at the customer's facility and submitted to Weld Spec for the required testing. Various tests are performed on the completed test coupon in accordance with the requirements of the applicable code as well as any client-specified testing requirements.

WELD PROCEDURE SPECIFICATION (WPS)

Weld Spec can provide consulting services to clients that may need assistance in developing their own written Welding Procedure Specifications required by the codes or standards they work to or special applications they just may not be familiar with and unsure how to proceed. Our many years of experience in WPS development can help assure a smooth transition to new welding requirements.



WELD SPEC CAPABILITES

Weld Spec has the capability to provide a wide range of Non Destructive Testing, Inspection, and Laboratory Testing and Consulting Services, allowing us to provide our clients with the critical data they need to assure that the materials, products, and components they supply or utilize are compliant to the required standards and specifications and fit for their intended purpose.

CONVENTIONAL NDE

- Radiographic Testing
- Ultrasonic Testing
- Magnetic Particle Testing
- Penetrant Testing
- Positive Material Identification (PMI)
- Delta Ferrite / Hardness Testing

ADVANCED NDE SERVICES

- Digital / Computed Radiography
- Phased Array UT
- Automated UT / Corrosion Mapping

ROPE ACCESS INSPECTION

- Versatile / Multi-Craft Capabilities

MECHANICAL INTEGRITY SERVICES

- Equipment History & Reliability
- Equipment Documentation

TURNAROUND INSPECTION

- Cost Estimating
- Supplier Assessment
- Planning & Scheduling

CAPITAL PROJECTS

- Project Management
- Quality Assurance Services
- Supplier Qualification
- Vendor Surveillance

METALLURGICAL SERVICES

- Consulting
- Failure Analysis
- Photomicrographs

MECHANICAL TESTING

- Tensile & Bend Testing
- Charpy Impact Testing
- Chemical Analysis
- Microhardness

WELD TESTING

- Welder Qualification Testing
- Weld Procedure Qualification (WPQ)
- Weld Procedure Specification (WPS)

HMT CAPABILITES

HMT's sophisticated inspection offerings will expand Weld Spec into a full-service provider for industrial operations.

INSPECTION SERVICES

- API Standard 653
- API Standard 570
- API Standard 510
- STI/SP001
- AWWA D100

ENGINEERING

- Rigorous Stress Analysis
- Corrosion Rate Calculations
- Finite Element Analysis (FEA)
- Fitness-for-Service Evaluations
- Similar Service Assessment
- Hydro Exemptions
- NACE Inspections
- State-Specific Environmental Inspections
- Additional Evaluation Referenced in the API & STI Standards

CALIBRATION

- Dry Calibration
- Liquid Calibration
- 3D Calibration
- Hydro Settlement Survey
- 3D Verticality/Traditional Verticality

VISIT **HMTTANK.COM**

WELD SPEC LOCATIONS

3314 Hwy 69 South
Lumberton, TX 77657

8080 Eastex Fwy
Beaumont, TX 77708

813 Highway 108
Sulphur, LA 70665

HMT INSPECTION LOCATIONS

6136 Copperhead Road
Geismar, LA 70734

1301 Transport Dr.
Baytown, TX 77523

CONTACT 409-751-6700 FOR MORE INFORMATION