



OVERVIEW

Phoenix National Laboratories, Inc. (PNL) Established in 1994 in Tempe, AZ is a full service testing company specializing in nondestructive testing and associated services including steel inspection, welder qualifications, welding procedure qualifications, physical/mechanical testing, and micro-structural analysis. We offer both field and laboratory services to clients in the construction, manufacturing, fabrication, petroleum, and utility industries. Our multi-disciplined experienced staff is fully equipped to provide testing and inspection services on a periodic or full time basis, 24/7 depending on the size and scope of your project. We also provide engineering testing and design services. We are dedicated to providing our clients with a professional, efficient service at a fair price and we believe that our reliable designs, test data, reports, and advice are indispensable to your project. Our quality system meets ASME, AWS, API, AASHTO, and is ISO 17025 accredited. We also hold a State of Arizona Radioactive Materials license for radiography source material. Our technicians are certified in accordance with ASNT, AWS, ICC, and ISNET programs. A brief description of our services is listed below.

COMMERCIAL • INDUSTRIAL • MUNICIPAL • PETROLEUM • UTILITY

NONDESTRUCTIVE TESTING

- Ultrasonic (UT) → Flaw Detection, Thickness Measurements, Contact/Immersion Instruments, Phased Array (PAUT)
- API 653 AST & API 570 Piping Inspections → (RAUC) Remote Access Ultrasonic Crawler
- Radiography (RT) → X-ray/Gamma Ray, Computed Radiography (Digital)
- Ground Penetrating Radar (GPR)
- Magnetic Particle (MT) → Mag/Demag, AC/DC Yokes, Prods, Coils, High Amperage Mobile Units, Wet/Dry, Fluorescent
- Liquid Penetrant (PT) → Visible, Fluorescent, Field, Laboratory Line, All Types, All Methods
- Visual (VT) → Weld Inspection, Verification Inspection, CWI Inspection
- Eddy Current (ET) → Crack Detection, Material Sorting, Heat Exchanger Tube Analysis
- Leak Testing (LT) → Vacuum Box, Hydrostatic Testing, Pressure Differential, Coating Holiday Testing
- Hardness Testing → Field Micro hardness testing
- Positive Material Identification (PMI) → Thermo Fisher Scientific Alloy Analyzer
- Coating Application & Thickness Testing
- ASNT Level III Consulting • Training • Engineering
- Rope Access (SPRAT) Trained Personnel

SPECIAL INSPECTIONS

- Fabricator Inspections → Shop Fabrication inspections
- Structural Steel and Welding → Shop, Field • Rebar Welding
- High Strength Bolting → Inspection and Testing
- Roof Deck → Composite Deck Welding Inspections
- Stud welding Inspection and testing
- Epoxied & Concrete Anchors → Verification During Installation, Proof Load Testing
- Spray Applied Fireproofing → Substrate Examinations, Thickness, Density, and Adhesion Testing
- Exterior Insulation Finishing System (EIFS) Inspections
- Structural Wood & Nailing

WELDING TECHNOLOGY

Welder Certifications • Welding Procedures and Specifications (WPS's & PQR's)
 Design and Qualification Testing • Consulting • 8- Welder Test Booths for welder qualification
 SMAW (Stick) • FCAW (Flux Core) • GMAW (Mig) • GTAW (Tig) • SAW (SubArc)
 ASME • AWS • API • MIL-STD

PHYSICAL - MECHANICAL TESTING

ASTM Testing of: • Elastomeric Bearing Pads • Metals • Rubbers • Plastics • Composites
 Including: Structural Testing, Design and Analysis, Product Testing, Proof/Load Testing, Failure Analysis, Engineering