



EMI, DYNAMICS, NUCLEAR

Located in our Element Materials Technology Huntsville campus, Element Materials Technology Huntsville Nuclear is a highly specialized nuclear test facility.

OUR KEY SERVICES INCLUDE:

QUALIFICATION TEST SERVICES

- Four Seismic Simulators
- Six Accident Test Autoclaves
- One 150 psi, 3,000 lbs. per hour boiler
- 300KW Steam Super Heater System
- One Boron Chemical Spray Injection System
- Seven EMI Test Rooms

THIRD PARTY QUALIFICATION

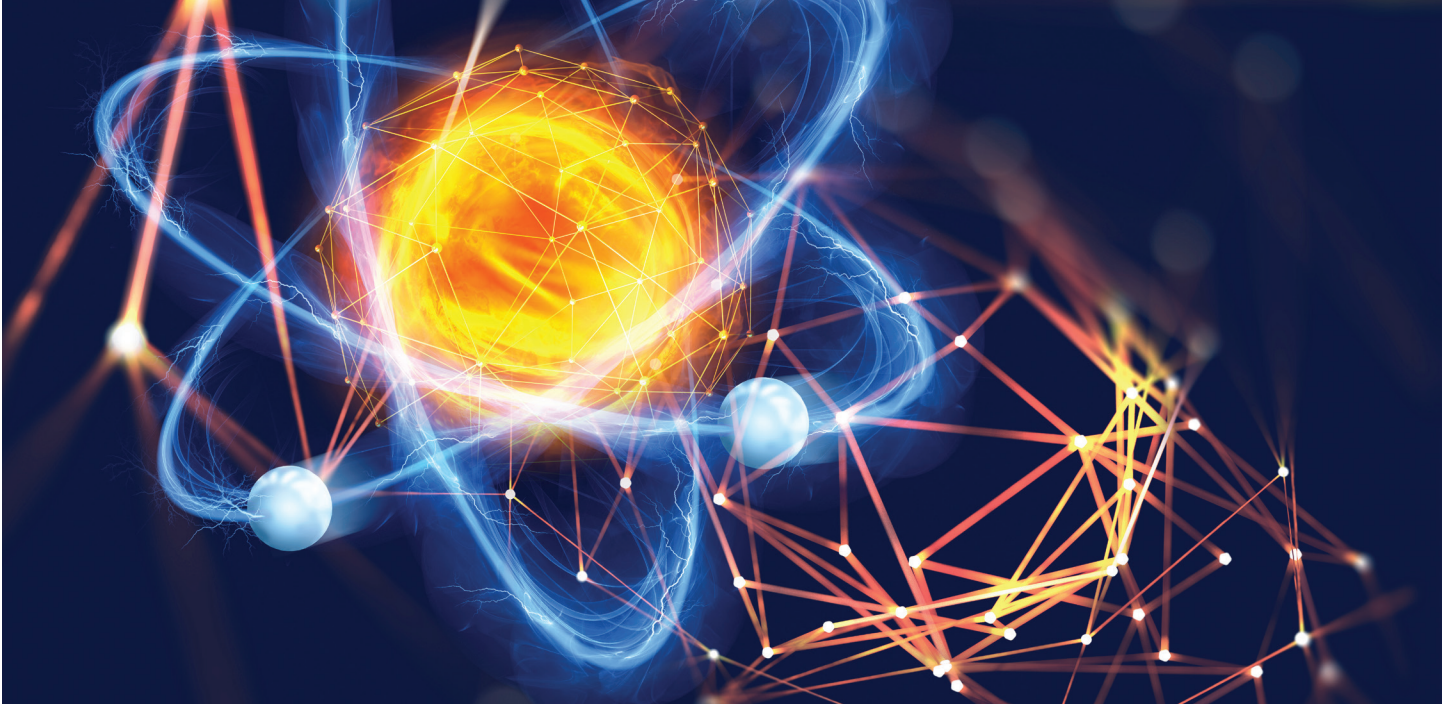
- Sole Supplier of Yokogawa Products
- 4000+ previously qualified items
- Cybersecurity Services
- Material Verification

VALVE TESTING SERVICES

- Three Safety Relief Valve Test Cells for steam, water and air
- UPGRADED Full Flow Steam Test System to 2,000,000 lbs/hr max. and 1400 psi max.
- Full Flow Hot Water Test System 2200 psi
- Hot Water Closed Loop Flow System 30,000 gallons
- Cold Water Closed Flow Loop System 60,000 gallons
- Two 3,000 psi, 6,000 lbs. per hour boilers & One 1,500 psi 12,000 lbs. per hour boiler

DETAILED SERVICES

- Safety Relief Valve Testing and Certification Services (ASME OM Code, Set Pressure, Seat Leakage and Operability with Steam/Water/Air, and Repair Support)
- Valve and other Fluid Component Testing Services (ASME QME-1, Hot and Cold Cycle Testing, Flow Interruption, Deflection and Modal Testing, Steam/Water/Air)
- Snubber Inspection, Testing and Refurbishment Services (ASME OM Code, Removal, Installation, Inspection, Repair, Refurbishment)
- Equipment Qualification Engineering and Testing Services (Radiation Aging, Thermal Aging, Cycle Aging, EMI, Seismic, and Accident (LOCA) Simulation)
- Safety Related Equipment Supply and Third Party Qualification (NTS is the Exclusive Provider of Yokogawa Instruments and Replacement Parts)



DELIVERING INNOVATIVE PRODUCT TESTING AND CERTIFICATION SOLUTIONS

RADIOACTIVE MATERIAL LICENSED

Element Nuclear holds a Radioactive Material License and is audited by the US Nuclear Regulatory Commission (USNRC), Nuclear Procurement Issues Committee (NUPIC), and Nuclear Industry Assessment Committee (NIAC). The lab offers full-service engineering and testing organization to support electrical and mechanical equipment qualification to the requirements of 10CFR50.49 and IEEE Standards 323 and 344.

ICAP CERTIFIED

Element Nuclear has earned IEEE's Conformity Assessment Program (ICAP) Certification. The ICAP certification permits Element to connect directly to manufacturers through a standard of product qualification testing and standardized reporting resulting in streamlined approval processes for customers worldwide.

ICAP certification is important for expediting market adoption while reducing implementation costs. The program is specifically designed to ensure product conformity to IEEE standards, thus reducing testing burdens on manufacturers that need to meet multiple programs for different end-users or buyers. ICAP also enables trade across state and international boundaries with the assurance of operating safely and reliably within certain measurable performance criteria.

The Element Huntsville campus is a massive 238,196 square foot laboratory, which specializes in large-scale and custom testing for the defense, nuclear, commercial, telecommunications, transportation, space, and aerospace sectors. Our 115.6 acre facility has qualified more equipment than any other company in the industry and is home to:

- Element Materials Technology Huntsville Nuclear - a Center of Excellence
- 50+ Environmental Simulation Chambers/Systems
- EMI/EMC Testing to EPRI, Nuclear Regulatory, FCC, and DoD Standards
- 50+ Environmental Simulation Chambers/Systems
- Advanced Dynamics & Structural Load Testing
- High-Flow Steam & Water Capabilities
- Acoustic Noise Chamber Testing, Design, Refurbishment
- Advanced Calibration Services