

TEST THE EXTREMES BEFORE THEY BECOME REALITY

SMR, LOCA & HELB Qualification Testing

Advanced nuclear systems demand qualification testing that replicates the harshest thermal, pressure, chemical, and mechanical environments.

Element Huntsville supports reactor developers, utilities, engineering firms, and equipment manufacturers with testing for design validation, licensing, and equipment qualification.

COMPREHENSIVE NUCLEAR TESTING

SMRs

- High temperature & high-pressure testing
- Rapid transient simulation
- Structural & fatigue evaluation

LOCA

- Steam & chemical spray simulation
- Pressure & temperature cycling
- Post-accident operability testing

HELB

- Steam environment generation
- Thermal shock & pressure transients
- Harsh environment qualification

ONE FACILITY. COMPLETE TESTING.

- Six accident-test autoclaves
- Four seismic simulation systems
- 50+ environmental test systems
- High-flow steam & water testing
- EMI/EMC, dynamics & licensed radioactive-material testing

Integrated capabilities help simplify qualification programs, reduce risk, and accelerate testing from planning through final reporting.

READY TO QUALIFY YOUR NEXT NUCLEAR PROGRAM?

Testing confidence for the future of nuclear energy.



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