

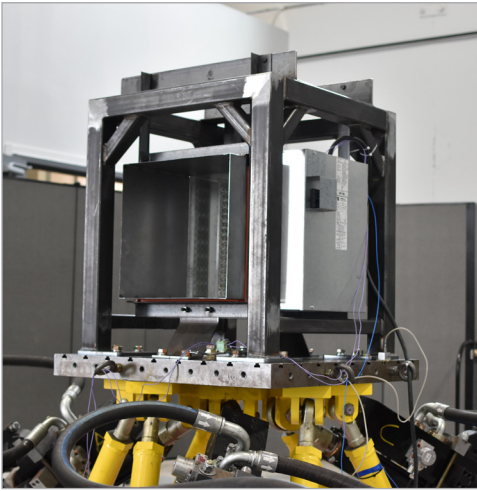
# *Commercial Grade Dedication and Qualification Services*



*Nuclear Division*

## *Committed to Testing Excellence*

Since 1987, Curtiss-Wright has played a vital role in supporting the nuclear industry's safety-related hardware needs through Commercial Grade Dedication and Equipment Qualification. These services are performed in-house at our Newmarket, Ontario facility by a highly skilled engineering staff. With over 50,000 components qualified and dedicated, our CGD program maintains an extensive library containing thousands of dedication plans, qualification plans, and test reports for BWR, PWR, and CANDU Reactors. Curtiss-Wright also serves OEMs, Tier 1 suppliers, and federal government nuclear service providers. We are also an EPRI SQRSTS seismic testing facility, providing testing to SQRSTS members. Whether the challenge at hand involves an individual component or a complex system, Curtiss-Wright has the solution.



## Dedication Procedures

Curtiss-Wright follows a highly structured dedication process that adheres to industry guidelines. This methodology begins with a dedication procedure that includes technical evaluation, definition of critical characteristics for acceptance (based on safety function), acceptance criteria, acceptance test procedures, customer specifications, and data sheets. After completing the required dedication activities, a testing report and a Certificate of Conformance (CofC) are issued.

## Equipment Qualification

Curtiss-Wright offers a distinguished set of Equipment Qualification procedures for harsh and mild environments. Our Qualification Center is fully equipped for in-house testing for a broad range of components and assemblies.

### Equipment Qualification Tests

- Loss of Cooling Accident (LOCA)
- HELB/MSLB
- Vibration Aging
- Humidity Chambers
- Thermal Aging Ovens
- Steam Test Simulators
- Post LOCA Submergence Chamber
- Radiation Testing
- Mechanical/Electrical Cycling
- EMI/RFI Testing
- Seismic Qualification Testing
- Side Load Testing
- Environmental Stress Screening (ESS)

## Seismic Testing Services

Curtiss-Wright has a comprehensive seismic testing facility to ensure the safety and reliability of parts, components, and systems. Our services meet the rigorous standards of EPRI, CSA, and IEE, and comply with strict regulatory requirements.

### Remote Witness Access

Our testing lab offers remote viewing of seismic tests through four cameras with 360° of coverage - allowing our customers to have a superior remote viewing session.

### Seismic Table Technical Specifications

- 3ft x 3ft tri-axial, shaker table with 10,000lb capacity
- Expansion plates and arms up to 108" wide
- 10-inch stroke actuators
- 160,000 ft-lb overturn capacity
- Tri-axial Random Multi Frequency (RMF) testing
- Single Axis Random Input Motion (RIM) Testing
- Random, sine-sweep, continuous sine-wave or white noise excitation
- Capacity to operate with ZPA of up to 18 g
- Frequencies of up to 200 Hz

## Quality Programs

- ASME NQA-1
- ANSI N45.2
- ASME Section III
- 10CFR50 Appendix B
- 10CFR Part 21
- CSA B51 and TSSA N285
- CSA N299.1-16, CSA N289
- NUPIC and CANIAC Audited
- IEEE 344, IEEE 382, and IEEE 323

## CONTACT INFORMATION:

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