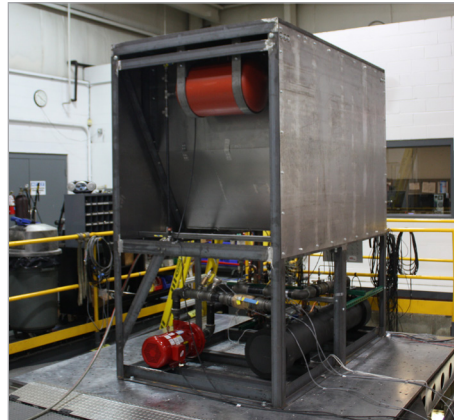


# Building Code Seismic Testing

The premier testing lab for ICC-ES AC-156

**CURTISS -  
WRIGHT**

Seismic and Qualification Services



Curtiss-Wright Nuclear has performed seismic testing, under the product and service brand QualTech NP, since 1986. QualTech NP has been IAS accredited to AC-156 Seismic Testing Lab standards since 2001. Existing certifications meet all testing criteria for OSHPD, ICBO, IBC, ASCE 7-05, and UBC standards. The International Code Council Evaluation Service Acceptance Criteria for Seismic Certification by Shake-Table Testing of Nonstructural Components is the most common testing procedure used for IBC and OSHPD applications.

In addition, the QualTech NP Quality System Manual for IBC/UBC Test Programs is audited every three years by the International Accreditation Service (IAS). To ensure accurate data collection, all seismic software is verified and validated annually. These high standards of excellence are maintained through routine internal audits, technical standard compliance reviews, and management program reviews.

The Curtiss-Wright seismic engineering team provides complete qualification support ranging from test plan development to fixture design and manufacturing. Curtiss-Wright Nuclear takes pride in proactively working with customers to provide a finished product that meets their most critical requirements.

## Seismically tested equipment:

- HVAC air handling units
- Emergency generators and fuel tanks
- UPS cabinets, battery racks, battery chargers, and inverters
- HVAC fans and compressors
- Rotating equipment
- Distribution cabinets/panels and high resistance grounding systems
- Electrical switchgear
- Air monitoring systems
- Fire protection systems and panels

## Seismic services include:

- Defining project scope and developing seismic test plan to ensure requirements are satisfied
- Design and manufacture any special fixtures required for testing
- Perform all required seismic analysis
- Complete required shaker table testing in accordance with AC-156 and OSHPD Special Seismic Certification Preapproval standards
- Certify the seismic capabilities of the component/system
- Issue certificate(s) of compliance and any product labeling required by code
- Draft all required documentation, review with customer, and submit final report

## Seismic and certification services are in accordance with:

- *ISO/IEC 17025* – IAS Accreditation Criteria for Testing Laboratories (AC89)
- *ICC-ES-AC-156* – International Code Council Evaluation Service “Acceptance Criteria for Seismic Certification by Shake-Table Testing of Nonstructural Components”
- *OSHPD* – California Building Code Special Seismic Certification Preapproval for California hospitals; several other state are also accepting certification
- *ASCE 7* – “Minimum design loads for building and other standards” (seismic)
- *ICBO* – International Code of Building Officials
- *IBC* – International Build Code
- *UBC* – Universal Building Code



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