Qualification and Fragility Testing for Industry

ACCREDITED FOR SEISMIC QUALIFICATION TESTING OF A WIDE RANGE OF BUILDINGS, INDUSTRIAL SYSTEMS AND COMPONENTS

http://seesl.buffalo.edu

STRUCTURAL ENGINEERING & EARTHQUAKE SIMULATION LABORATORY
DEPARTMENT OF CIVIL, STRUCTURAL & ENVIRONMENTAL ENGINEERING
Supporting industry through qualification testing

SEESL is certified by the International Accreditation Service

The versatile testing capabilities of the Structural Engineering and Earthquake Simulation Laboratory (SEESL) facility at the University at Buffalo enable the seismic qualification and fragility testing of a wide variety of hardware, systems and equipment.

SEESL is accredited by the International Accreditation Service (IAS) in compliance with the “International ANS/ISO/IEC Standard 17025:2005.” Designated as testing laboratory TL-404, SEESL is certified for seismic testing according to test methods AC-156, IEEE-344, IEEE-693 and GR-63-CORE (NEBS). An expansion of scope under ISO-17025 ASME NQA-1 is being reviewed by IAS for certification for nuclear facility applications.

Suspended Ceilings and Lighting Systems
Testing of suspended nonstructural systems, such as ceiling systems, water and other piping, lighting, sprinkler systems, and HVAC ducting, is routinely carried out in compliance with AC-156 using a large-scale test frame together with one or both shake tables.

Cooling Towers, Chillers and Mechanical Equipment
Shake table testing of mechanical equipment, including cooling towers, chillers, and HVAC systems, is conducted in accordance with industry-recognized test procedures for nonstructural components, such as AC-156.

Electrical Substation Equipment
A wide variety of electrical substation equipment is tested at SEESL, including circuit breakers, transformer bushings, disconnect and grounding switches, surge arresters and insulators. Electrical equipment is directly attached to the shake tables for testing at different intensities per IEEE-693.

For more information, contact Mark Pitman, SEESL Technical Services Manager, mpitman@buffalo.edu, or phone: 1-716-645-4377.