

Zertifikat nach SL2 für Gestelle für Atomkraftwerke in Schweden Certificate according SL2 for Stands for nuclear powerplant in Sweden



2 Assignment

A seismic simulation test according to IEEE 344-1987 *Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations*. As response spectra the SL2 spectrum was used. This spectrum is a floor response spectrum proposed for testing of equipment for Swedish nuclear power plants.

3 Summary

The test object was subjected to multifrequency biaxial excitation. Test runs with the test object mounted in two different orientations were performed, so excitations in both horizontal directions were obtained.

During an extra Safe Shutdown Earthquake test in the Front-to-Back & Vertical directions the mounting feet were cracked. However, the rack was still standing on the vibrator table after the test. The rack was repaired and the testing in the Side-to-Side & Vertical directions was done. The rack passed these test runs without suffering mechanical damage.

During the test runs the acceleration response at the upper cells were sampled and secondary response spectra calculated. These spectra were then used at a test of battery cells filled with acid, see the SP report P403143b.

