

Systems Support Engineering Division



"Quality to the Fleet"



Excellence in Environmental Testing

For over 50 years, the Environmental Test Laboratory at the Space and Naval Warfare Systems Center, San Diego (SSC San Diego) has met the environmental test needs of military, government, and commercial products . . . ranging from full-qualification testing on mission-critical systems for our Armed Forces, to lower level, tailored tests for commercial off-the-shelf products. SSC San Diego is the Navy's premier research and development laboratory specializing in sophisticated command, control, communications, and ocean surveillance systems. The crucial demands upon these systems for robustness and reliability required creating this essential Environmental Test Laboratory . . . with its broad and unique test capabilities.

Types of Tests

The types of tests offered by SSC San Diego's Environmental Test Laboratory include:

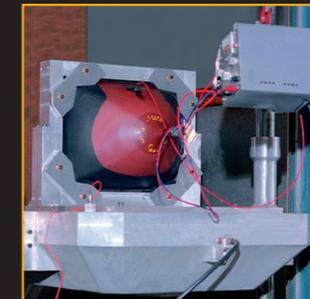
- Naval Sea Systems Command (NAVSEA) approved MIL-S-901 Shock Test Facility for lightweight and medium-weight shock testing
- Shock (Mechanical)
- Climatic Conditions
- Other tests and services such as
 - Inclination (roll), with a 3,200-pound load capacity
 - Hydrostatic testing under pressures ranging from 0 to 22,000 psi, simulating extreme sea depths
 - Tension and compression materials testing using a 20,000-pound Instron test machine
 - Field instrumentation and environmental documentation
 - Shock Approval Liaison service between the Space and Naval Warfare Systems Command (SPAWAR) and NAVSEA-designated shock approval authority to obtain shipboard shock qualification approvals



MIL-S-901 shock test of a missile in its vertical launch canister



Shock testing JTIDS antenna using a tuned fixture on the medium-weight shock machine



MIL-STD-810 test of a CRT



Russell Chamber



Shock testing countermeasures antenna

design build test repair upgrade modify restore design build test
field change • logistics • manufacture • quality assurance • database • esm • hf • uhf • shf • radiac • crypto • calibration • ship-to-shop repair