



# SURFACE WARFARE ENGINEERING FACILITY

## A Critical Test Facility

The Eli T. Reich Surface Warfare Engineering Facility (SWEF) is a key Navy test facility. It is one of the few places in the world where the Navy can evaluate the performance of its ships' combat and weapons systems in a controlled laboratory environment, and without any impact to ships and Sailors at sea.

The SWEF facility houses state-of-the-art equipment that represents current Navy Combat and Weapons system configurations. The SWEF laboratories have a variety of radars, launchers, and computer system configurations that support Navy Surface Combatants. The SWEF systems can represent current fleet assets and future ship platforms. Our test laboratories can simulate the operations of weapons systems, making it possible for engineers to troubleshoot fleet problems and ensure the systems work safely and effectively. The SWEF is operated by the Port Hueneme Division, Naval Surface Warfare Center (PHD NSWC) located on Naval Base Ventura County.

The SWEF's main purpose is to provide In-Service Engineering, Test and Evaluation and system life-cycle support to Navy shipboard weapons systems, which are crucial to defend our country and other international interests. Sailors depend on our work at the SWEF to provide them with weapons that are thoroughly tested and operationally reliable. Our engineers, logisticians, and technicians ensure the systems are ready for use when Sailors need them. Our work at the SWEF is critical to our national defense.

## A Key to Future Technology

SWEF also plays a key role in the development of technological advancements for America's future fleet. We are dedicated to improving our support for Navy ship platforms. We support the Homeland Defense Programs that include Coast Guard platforms for defense and interdiction, new methods of testing of surface warfare systems. We are committed to our community and environmental responsibilities. Our engineers and technicians at the SWEF strive for improving testing capabilities that use commercial off the shelf products and simulation and stimulation of virtual reality products to decrease the use of Navy assets and limit the impacts to the surrounding area.

Since the SWEF is capable of land-based operations and simulating tests, there is a limited need to use ships at sea or personnel to run the ships. Using the SWEF's computer generated simulation constitutes real savings to the taxpayers.

The SWEF's beachside facilities overlook local test operation areas that allow PHD to conduct tests with Naval Base Ventura County assets (Pacific Missile Test Range at Point Mugu, San Nicolas Island test site) and collectively other Southern California Test Ranges.

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