



## Antenna Test Range

Historic site offers test, evaluation, and calibration of communications and radar antennas to DOD and commercial customers.

### Background

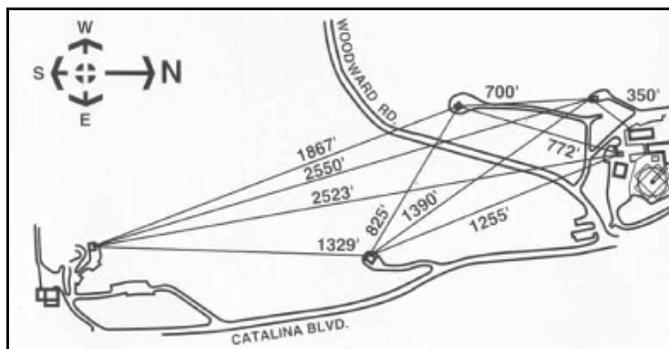
SPAWAR Systems Center has been performing antenna testing and research for more than six decades. Bounded by San Diego Bay to the east and the Pacific Ocean to the south and west, SSC Pacific's Antenna Test Range is relatively free of electromagnetic noise while still easily accessible from downtown San Diego. The mild climate allows for year around outdoor operation. The ranges can be made available to commercial entities through Cooperative Research and Development Agreements (CRADA) or new or existing "Work for Others" Agreements (10 U.S.C. §2539(b)).

### The Technology

The range utilizes ten outdoor signal paths situated on the rim of a 150-ft canyon, which provides a nearly ideal range configuration. The signal paths can be operated from 210 ft to ½ mile. There are four pedestals for antenna mounting, the largest having a 30,000-lb capacity. In addition to the fixed signal paths, the range can use Navy ships nearby on the open ocean for direct line of site (LOS) contact and test.

### Related Range Capabilities

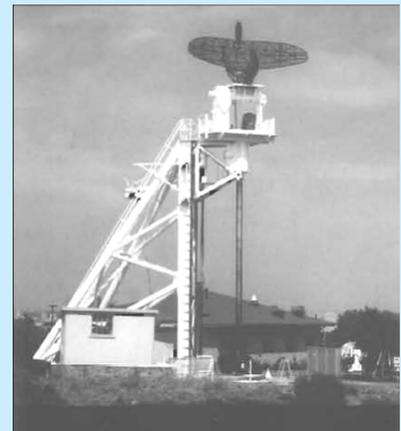
- Antenna Pattern measurement Range
- Time Domain Measurement Range / Bounded Wave Simulator
- Scale brass model machine shop
- VLF/LF Receive Antenna Calibration Facility
- High Voltage Test Facility
- Tapered Anechoic Chamber : 400MHz – 18 GHz
- Computational Electromagnetics expertise



Antenna Range's ten outdoor signal paths



30,000-lb capacity tower on rim of 150-ft canyon, open ocean



2,000-lb capacity tower with built-in elevator



SSC Pacific's campus of Antenna Ranges & facilities on Point Loma in San Diego.

#### (Website Version)

For a more detailed information sheet on this subject, or a bundle of all Division 554 information sheets, Make requests to Business Development Manager, [55403@spawar.navy.mil](mailto:55403@spawar.navy.mil), (619) 553-6538

Approved for public release; distribution is unlimited.

Business Development Manager  
 SSC Pacific Code 55403  
 Electromagnetics & Advanced Technology Division  
 San Diego, CA 92152  
[55403@spawar.navy.mil](mailto:55403@spawar.navy.mil)