

Cowes Radar Integration Test Facility

A trusted partner

Maritime Services provides manufacturing and through-life support services of highly complex electronic integrated systems, sub-systems and modules for high integrity applications.

System Integration - naval and land-based radar.

Transmission licenses are held for full power RF testing of a wide range of radar system types on the Cowes site.



Integration test

Several 12 metre test towers available on which to mount naval and fixed site radar antennas during integration with space for further development; they are adjacent to adaptable 'factory floor' and office style accommodation to house signal processing equipment and software development teams during integration.

Optional 50Hz or 60Hz mains power available and bulk distributed chilled water for land-based and naval equipments.

Co-located engineering support from mechanical, electrical, digital and software techniques groups as well as manufacturing technical expertise during development and trials.

System integration - Mobile radar and comms

Mobile radar and other containerised equipments can be deployed as 'in the field' on a three hectare grass field integration site with concrete access roads to various pads which offer all weather hard-standing for large vehicles and 2m high platforms for antenna pallets.

The site has a perimeter fence with security access control for personnel through an external gate or via co-located office accommodation; additional portable accommodation / workshop units are available on the site with mains power etc.

11Kv sub-stations and distribution panels supply mains power at various current capacities around the site when equipment is not required to be run from its own power source.

Adjacent to the integration site is a four hectare field from which is conducted representative jamming trials, deployment of SSR transponders / RF sources etc during radar qualification.

CNTF

Cowes operates an advanced cylindrical near-field test facility (CNTF), which is capable of fully characterising all antennas operating in the 1GHz - 6GHz frequency range. The CNTF provides effective, high technology support in the design, development and testing of antenna systems.



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