

WEAPONS SYSTEMS

BAE SYSTEMS AUSTRALIA



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FROM HOVERING MISSILES TO HYPERSONICS, OUR CAPABILITIES IN GUIDANCE AND CONTROL ARE RECOGNISED AROUND THE WORLD.

BAE Systems Australia's globally recognised skills have produced some of the world's most successful guided weapons and ship air defence systems, used by various NATO nations.

We have the expertise to provide total in-country support of guided weapons - covering design and development, production and trials, and in-service support.

OUR CAPABILITIES

- Flight dynamics, simulation and modelling
- Missile guidance and control
- Mission critical software
- Mission critical avionics
- Electronic warfare
- Launch systems and integration
- Propulsion and thrust vectoring
- Operational analysis modelling
- Product acceptance, integration and test
- Product maintenance
- Combat and fire control system.

NULKA ACTIVE MISSILE DECOY

We are the prime contractor responsible for the design, development and integration of the world's most effective soft-kill anti-ship missile defence system - the Nulka Active Missile Decoy.

The Nulka system is in-service on over 150 ships across the Royal Australian, United States and Royal Canadian navies.

We are also designing and qualifying an upgrade to the Nulka launch sub-system for a series of existing and new Royal Australian Navy ships.

GUIDED WEAPONS

We are the Australian industry lead for the design, development, production and support of key elements of the Evolved SeaSparrow Missile (ESSM); an international collaboration of 12 NATO navies, with Raytheon Missile Systems (Tucson, AZ) as the prime.

We are responsible for designing the thrust vector controller, flight surfaces and flight control algorithms for the pitchover manoeuvre flight phase, crossing target capability and other guidance modes. Our close involvement in the ESSM program will continue with the development of the Block II version of the missile.

Our guided weapons capability also includes the integration of the Advanced Short Range Air-to-Air Missile (ASRAAM) into the Royal Australian Air Force's F/A-18 Hornet fleet, in collaboration with MBDA.

During the first entry-into-service phase, we collaborated with the Defence Science Technology Organisation (DSTO) on innovations in image processing for high clutter and counter measure environments to develop, test and integrate ground-breaking software enhancements.

OPERATIONAL ANALYSIS AND MODELLING

We are the developers of the Ship Air Defence Model (SADM), an operational analysis tool for analysing above water warfare in maritime and littoral environments. SADM is currently in service with the navies and research establishments of 13 countries.

HYPERSONICS

Exploiting our guidance and control capabilities, we're at the forefront of the latest developments in hypersonic technology. We're supporting DSTO's Hypersonic International Flight Research Experimentation (HIFiRE) flight trials, in collaboration with the US Air Force Research Laboratory.

Our expertise is also helping the Defence Materials Technology Centre in the research and development of high temperature materials for Scramjet (supersonic combustion ramjet) applications.



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