

to meet specific challenges throughout the remaining Phases of the Program.

The AWD Systems Centre will eventually be located in a purpose built facility at the new Techport Australia development in Osborne, Adelaide. The Systems Centre and Shipbuilding facilities combined, create one of the most capable centres of defence technology excellence in the world.

THE DEFENCE MATERIEL ORGANISATION

The DMO AWD Program Office retains overall responsibility for the project management and delivery of the three Air Warfare Destroyers. The DMO, through the Minister for Defence, is responsible to the people of Australia to ensure that the future AWDs are delivered to the RAN on time, on budget and to the required capability. The DMO is committed to delivering the most capable ship for the future security needs of the nation.

As an integrated member of the AWD Alliance, the DMO will work alongside ASC and Raytheon Australia staff in the AWD Systems Centre across a range of technical, financial and project management areas throughout the life of the program. The DMO will work closely with Defence and Industry stakeholders to ensure maximum practical Australian Industry Involvement in the construction and delivery of the three ships.

ASC AWD SHIPBUILDER PTY LTD

ASC will fabricate, assemble, test and develop a through-life support system for the HOBART Class AWDs at its shipbuilding facility in Osborne, South Australia.

This includes:

- + the procurement of all ship materials and equipment;
- + the management of subcontract packages for ship module construction around Australia and subsequent delivery to ASC's shipbuilding facility; and
- + installation of Combat System equipment.

ASC has engaged two capability partners to assist in its role as shipbuilder: renowned United States ship designer and builder Bath Iron Works (a subsidiary of General Dynamics) and leading independent engineering consultants Sinclair Knight Merz.

ASC is also involved with the South Australian Government's development of the new Common User Facility infrastructure, including a ship lift, wharf and dry berths.

RAYTHEON AUSTRALIA PTY LTD

With facilities located across the country, Raytheon Australia delivers mission systems integration and mission support through an engineering and technical workforce of over 1200 Australians. Backed by world-class management and quality systems, this local presence is bolstered by strong relationships with small and medium sized enterprises and access to the global resources of Raytheon Company (NYSE: RTN).

As the Air Warfare Destroyer Mission Systems Integrator, Raytheon Australia will

- + Integrate the non-Aegis elements of the combat system and conduct combat system trade studies;
- + Develop the design of the complete AWD combat system with the Commonwealth, USN and the Aegis Combat System Engineering Agent;
- + Develop complete ship and Integrated Support Systems with the Platform System Designer and Shipbuilder; and
- + Develop project management and systems engineering structures and deliver mission systems integration.

AUSTRALIA'S HOBART CLASS AIR WARFARE DESTROYERS

The Navantia designed HOBART Class will be capable across the full spectrum of joint maritime operations, from area air defence and escort duties, right through to peacetime national tasking and diplomatic missions. The Royal Australian Navy will undergo a quantum leap in its air warfare capability when the HOBART Class enters service.

Since entering service with the Spanish Armada, F100s have worked alongside US forces in the Gulf as the first foreign Aegis equipped ship to be fully integrated into a US Navy Carrier Strike Group and have successfully been deployed as the flagship of NATO's Maritime Group Standing Reaction Force.

The HOBART Class AWDs will be equipped with an Australian Aegis combat system to ensure they possess the most up to date combat technologies available. These technologies ensure the HOBART Class meets the specific capability requirements of the Royal Australian Navy.

Centred on Aegis, the total Combat System is amongst the most advanced maritime air warfare capabilities available and ensures the Navy has unprecedented levels of interoperability with Australia's coalition partners and allies. When the AWDs enter service in the middle of the next decade, there will be around 100 Aegis equipped ships operating across the globe giving the Navy access to the updates offered by the US and other in-service navies.

OPPORTUNITIES FOR AUSTRALIAN INDUSTRY

The AWD Program is the largest and most complex Defence project ever undertaken in Australia. A key aim of this nation-building project is to ensure the benefits to industry are maximised to enhance Australia's strategic industrial base.

All three ships will be consolidated at ASC's shipyard in Adelaide, with major hull blocks constructed in other shipyards and factories around Australia. A large number of the machinery modules will also be distributed to manufacturers across the country.

The design and development of the AWD Combat System will be led within the Alliance by Raytheon Australia. There will be key opportunities for Australian Industry to design and construct various sub-systems and equipment for the Australianised combat system.

To register your company's interest in the AWD Program please visit the AWD Alliance website at: www.ausawd.com



AUSTRALIA'S HOBART CLASS AWD

OVERVIEW

The Air Warfare Destroyer (AWD) Program will provide the Royal Australian Navy (RAN) with one of the world's most capable all purpose warships. In selecting the F100, the Australian Government has ensured tomorrow's Navy has the best equipment to defend Australia and its national interests.

The AWDs will provide air defence for accompanying ships in addition to land forces and infrastructure in proximate coastal areas, and for self-protection against attacking missiles and aircraft. The Aegis Combat System incorporating a state-of-the-art phased array radar, in combination with the SM-2 missile, will provide an advanced air defence system capable of engaging enemy aircraft and missiles at ranges in excess of 150km.

The AWDs will also carry a helicopter for surveillance and response to support key warfare areas. The surface warfare function will include long range anti-ship missiles and a naval gun capable of firing extended range munitions in support of land forces. The AWDs will also be able to conduct Undersea Warfare and will be equipped with modern sonar systems, decoys and surface-launched torpedoes. Coupled with an array of close-in defensive weapons, all of these capabilities ensure the AWDs have the layered defensive and offensive resources required to win the battle against 21st century conventional and asymmetric threats.

In January 2006 the Government announced that the AWDs will be named HMAS HOBART, HMAS BRISBANE and HMAS SYDNEY ensuring the three ships reflect a rich history of service.

THE AWD ALLIANCE

An Alliance based contracting strategy has been employed by the AWD Program for the Build Phase of the project. The Air Warfare Destroyer Program's adoption and management of the Alliance strategy is widely recognised as an international benchmark for major Defence acquisitions.

In April 2005, the Australian Government selected Raytheon Australia Pty Ltd (Raytheon) as the Combat System Systems Engineer, and in May 2005 selected ASC AWD Shipbuilder Pty Ltd (ASC) as the Shipbuilder.

The DMO, ASC and Raytheon Australia will work together to deliver the AWD capability to the Navy.

The philosophy behind the Alliance strategy is to integrate Defence and Industry to ensure best for project outcomes based upon a pain share-gain share contracting strategy. The Alliance will break down the barriers between both Defence and Industry, as well as between the Industry Participants themselves.

While Navantia will be a subcontractor to the Commonwealth, the Design

Team will be integrated seamlessly into the Alliance working environment to achieve common Alliance goals.

THE AWD SYSTEMS CENTRE

The AWD Systems Centre manages the design schedule, budgets and work breakdown structures of the complex shipbuilding project and draws together Defence and Industry Participants in the one location to ensure effective and efficient decision making.

South Australia is home to the AWD Systems Centre which has already created hundreds of highly skilled jobs for the state and demonstrated Australia's ability to meet the challenges of one of the most demanding defence projects underway anywhere across the globe.

As well as housing the Alliance and ship designer, the Defence Science and Technology Organisation will also embed staff within the AWD Systems Centre to provide specialist support to the Program. The Alliance will also work alongside the United States Navy and its Aegis Combat System Engineering Agent, Lockheed Martin, to deliver the Aegis capability to the HOBART Class. As the Program progresses, major sub-system and original equipment suppliers will be integrated into the AWD Systems Centre



HOBART CLASS

SPECIFICATIONS

For all AWD Alliance enquiries please write to:

AWD Systems Centre
GPO Box 1318
Adelaide, SA 5001

Or to register your company's interest in the AWD Program
please visit the AWD Alliance website at: www.ausawd.com

Characteristics: Length 146.7m
Beam 18.6m
Draft 7.2m
Full Load Displacement 6,250 tonnes

Performance: Top Speed: 28+ kts
Range: 5,000+ nm at 18+ kts

Crew: Approx 180

Accommodation: 234

Combat System: Aegis Baseline 7.1 and AN/SPY-1D(V) Phased Array Radar
Horizon Search Radar
Vertical Launch System: 48 x Mk 41 VLS Cells
Gun: Mk 45 5" 62 Calibre Gun
Harpoon Missile Launchers: 2 quad launchers
EW Suite
Very Short Range Defence
Nulka missile decoy system
Hull Mounted and towed array sonar system
Communications Suite

Aviation: Hangars: 1
Boats: Two Rigid Hulled Inflatable Boats