



DEFENCE WEEK

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Establishment of SEA 1000 IPT

The Department of Defence is currently considering the establishment of a Defence and industry Integrated Project Team (IPT) to develop high-level concept designs for the replacement Collins Class submarine to meet the 2009 White Paper capability

The IPT will help better inform Australian industry about the requirements of the project, foster growth of local submarine design capability, and determine the capability of progressing with an Australian bespoke design for **Sea 1000** Government First Pass consideration. The IPT will develop two costed, scheduled and technically balanced submarine concept designs for this future submarine capability.

Subject to internal delegate approval, the Commonwealth intends to run a formal Invitation to Participate (ITP) process to establish an IPT Panel (with a range of suitable companies to provide secondees in a range of disciplines and roles into the IPT) as well as selection of an IPT Leader and IPT Deputy Leader.

Defence is seeking comment from industry on the exposure draft contractual documentation prior to the issue of a formal ITP to the open market (currently anticipated to occur in November 2012).

This Exposure Draft includes; an overview of the IPT and proposed process, a draft Invitation to Participate, draft Relationship Agreement, draft Standing Offer, draft IPT Leader Contract and a draft IPT Deputy Leader Contract.



Interested parties are encouraged to provide comments to the Address for Lodgement below no later than 1700hrs (AEDT) 26 October 2012.

Respondents to the Exposure Draft should note that the Commonwealth may publish any query made in relation to the Exposure Draft and the Commonwealth's answer to the query on Austender, without disclosing the source of the query or revealing any commercial-in-confidence information.

The IPT documents may be varied by the Commonwealth prior to the issue of a formal ITP. Details of can be found [here](#) at the Austender site.



Spain begins first helicopter trials from LHD

The Spanish Navy and Army have begun trials aboard the 27,500-tonne landing helicopter dock (LHD) SPS Juan Carlos I (L61) to evaluate interoperability with two of the main aircraft used by the army's helicopter fleet.

Tests for loading and transporting **Eurocopter AS 665 Tiger** attack helicopters and **AS 532UL Cougar** transport helicopters from the Army's Air Mobile Forces, began in dock at the ship's home port of Rota, near Cadiz, earlier in the month.

No doubt the RAN will undertake similar trials with the completion and commissioning of the two Canberra class LHDs whose air capability, could include the Army's **MRH-90** medium lift and **CH-47 Chinook** heavy lift helicopters, RAN **S-70B-2** and later **MH-60R ASW** combat helicopters, and the Army **ARH Tiger** armed reconnaissance helicopter.

It appears that under current plans, the Canberra class LHDs will operate 12 Army or Navy helicopters. Although the ships are potentially capable of operating STOVL aircraft like the **F-35B**, the ability to operate STOVL aircraft was not a tender criterion, and Australia is not acquiring the STOVL version of the **F-35**.

The hull of the first LHD, which arrived last week from Spain, where it had been constructed by shipbuilder **Navantia**, took nine weeks to complete the 13,000 nautical mile voyage to Australia. The hull will now be unloaded and moved by tug to the **BAE Systems' Williamstown** dockyard for consolidation of the superstructure and other critical fitout work. LHD 01 Canberra is expected to be introduced into RAN service in 2014, followed by LHD 02 Adelaide in 2016.

The introduction into service of these ships will mark a significant change in the way the ADF deploys its land forces and conducts amphibious operations. Each ship with its crew of around 300 personnel can also carry and embark a combined armed battlegroup of more than 1,100 personnel, 100 armoured vehicles and 12 helicopters, and includes a 40-bed hospital.

ADM Congress 2013

ADM 2013
AUSTRALIAN DEFENCE MAGAZINE
SERVING THE BUSINESS OF DEFENCE

Date: 12-13 February 2013, Hyatt Hotel Canberra

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New parachutes for Army

After 36 years the Australian Army is replacing its stock of static-line personnel parachutes with new models and associated training being rolled out to units from early October. The new chutes carry heavier suspended weight and offer slower openings and landings compared to the old designs they replace.

The static line non-steerable, steerable and reserve chutes are all being replaced with new designs progressively being purchased from the US military as part of a \$27.8 million program.

The **T10 standard chute** is being replaced with the new **T11** design, the **T11R** from the **T10R** and the steerable **MC6** is set to replace the old **MC1**.

Parachute Rigger Conductor and a technical adviser for aerial delivery equipment, WO1 **Phil Thamm**, was part of the first rigger instructor, or “train the trainer”, course last month at ALTC, Bandiana. He was also one of the first to conduct in-service jumps with the new chutes on October 10.

“It’s required to be capable of carrying increased weight because these days we load up soldiers with more kit than we did in the past and equipment such as body armour,” Thamm said.—*Army Newspaper*



Mk 54 LWT torpedoes ordered for RAN MH-60R helos

By Tom Muir

Raytheon has been awarded a US\$45.3 million US Navy contract to provide MK 54 lightweight torpedo hardware, test equipment, spares and related engineering and repair services for USN fleet inventory and in support of foreign military sales to the Royal Australian Navy and the Indian Navy.

The award represents an exercised option of a current Navy contract for MK 54 torpedo kits. Raytheon is the USN’s sole production supplier for MK 54 lightweight torpedo hardware, in production since 1999.

The MK 54 is the Navy’s next-generation **anti-submarine warfare** (ASW) weapon deployed from surface ships, helicopters and fixed-wing aircraft to detect and attack underwater targets. Sophisticated processing algorithms allow the MK 54 to analyse the information, edit out false targets or countermeasures, and pursue identified threats. The MK 54 is designed for both deep water and littoral environments, making it the only



lightweight torpedo capable of striking any underwater target in the world's oceans, regardless of water depth.

Integrated onboard the **MH-60R** maritime helicopter, the MK 54 is the primary weapon for the helicopter's ASW mission. Most recently, the US Navy successfully launched the first MK 54 lightweight torpedo from the **P-8A Poseidon** aircraft. The torpedo adds a critical capability to these long-range ASW, anti-surface warfare, intelligence, surveillance and reconnaissance aircraft, which will be capable of broad-area, maritime and littoral operations.

ADM Comment: The ADF's torpedo inventory is growing, with two new brands of lightweight torpedoes, the **Eurotorp MU90** and its main international competitor, the **Raytheon/USN Mk-54 hybrid**. However, this is not a pretty tale; the MU90 Impact was originally selected over the **Mk-54**, the **Bofors TWS 90** and the **GEC-Marconi Stingray**, as the preferred choice for the ADF's primary ASW airborne weapon system.

But management failings, including that of the initial selection, and other factors have seen the role of the MU90 LWT reduced to that of ship-launched LWT aboard the **Anzac** (FFH) and **Adelaide** (FFG) ships, while the Mk-54 is now being acquired in considerable numbers to recover the all-important airborne ASW weapon capabilities that lightweight torpedoes are best at!

When the MU90 was selected the intention was to equip the **AP-3C Orion** and the RAN **Seahawk** and **SeaSprite** helicopters with the LWT system. But the SeaSprite was cancelled in 2008 and integration on the Orion and Seahawk was removed from the scope of JP2070 in early 2009 ostensibly because of the risk and difficulties involved. These included a significant underestimation of the full cost to integrate the weapon onto the various platforms and delays and difficulties being encountered by other projects that were upgrading the platforms with which the torpedo was to be integrated.

And the decision to purchase 24 **MH-60R Seahawk Romeo** naval helicopters for the RAN, rather than the **NH-90** helicopter, and to equip them with FMS-acquired Mk54 lightweight torpedoes, equipped to fire the MU90, was another nail in the coffin for an airborne MU90 capability. It has been mishaps like these which have driven the reforms to defence procurement, including those measures announced last week by **Defence Minister Stephen Smith** (see DWP from last week for more on this announcement).

Mishaps like these are among the reasons for measures to be introduced as the next phase of reforms to Defence procurement. These include the CEO DMO being asked to undertake a review of the structure and functions of the various Divisions within DMO which manage capability projects. This follows identification of a number of projects that have not been managed as effectively as they should have been. The seven projects listed included JP 2070, the acquisition of lightweight torpedos.

C4i receives recognition from Victorian Government

C4i have been recognised by the Victorian Government at the 2012 Governor of Victoria Export Awards this week. C4i received the Commendee award in the 'Small to Medium Manufacturing' category based on its FY2012 performance.

Over the last year, C4i has seen success in its export business, following the establishment



of a permanent office in Singapore and improved sales performance from its US subsidiary. C4i also successfully performed a number of large projects in multiple countries, increasing the total system deployments to near 30 countries.

C4i's world class **SwitchplusIP** product is developed and manufactured in Melbourne by its team of engineers, local subcontractors and suppliers. In addition to manufacturing, C4i's Melbourne facility also provides support capability to its international customer base and continues to invest heavily in ongoing product research and development.

ADM Online: Weekly News Summary

A summary of the latest news and views in the defence industry, locally and overseas. Check out our webpage for daily news updates on the *ADM* home page and make sure you bookmark/RSS this for a regular visit.

This week **Northrop Grumman Corporation** was awarded a contract to build a cyber-test range for the **University of New South Wales** (UNSW) and Canberra campus at the **Australian Defence Force Academy** (ADFA) in Australia.

It was announced that production for the new Australian-made **MultiCam** combat uniform worn by our troops in Afghanistan is now underway. The new uniforms have been issued to soldiers from **7RAR in Adelaide** and **RAAF Airfield Defence Guards** who will be deployed to Afghanistan in the near future.

Also, **Boeing** opened a centre for assembling refueling booms for US Air Force **KC-46** aerial tankers and is beginning work on the first unit.

And the New Zealand Defence Force have signed a contract with Hawker Pacific New Zealand for the supply and maintenance support of four **King Air B200** aircraft.

International



First AMRAAM release from F-35A

An F-35A test aircraft has completed the first aerial weapons release of an AIM-120 AMRAAM (Advanced Medium-Range Air-to-Air Missile) from a conventional takeoff and landing (CTOL) aircraft. The aircraft, known as **AF-1**, jettisoned the instrumented AIM-120 over the China Lake test range from an internal weapons bay.

This was the second in-flight weapons release in three days for AF-1 which had already completed the release of a 2000 pound GBU-31 BLU-109 Joint Direct Attack Munition (JDAM). The F-35A is designed to carry a payload of up to 18,000 pounds using 10 weapon stations.

The aircraft features four internal weapon stations located in two weapon bays to maximum stealth capability. The CTOL aircraft can also utilise an additional three weapon stations per wing if required.



Other JSF opportunities for industry



In a recent edition of DWP ADM reported that the US Defense Department was to begin publicly exploring ways to open up select portions of the Joint Strike Fighter (JSF) program to competition, which could create opportunities for other defence contractors to grab a small slice of the estimated US\$1.1 trillion cost to sustain the new fighter fleet.

Inside Defense recently reported that November 14-15, the F-35 joint program office will host an industry event “to identify potential business sources, capabilities, and experience to successfully deliver a wide range of hardware and infrastructure services in support for F-35 JPO sustainment,” the Pentagon announced in September.

The Pentagon was eyeing four areas for potential competition: supply chain management, the Autonomic Logistics Information System, training systems, and support equipment, according to the notice.

ADM has acquired from *Inside Defense* the official briefing material for the Industry Day entitled *Industry Day Supply Chain Management Overview* which covers potential competition areas in supply chain management services covering distribution management, transportation, regional warehousing (three sites in Australia shown) and provision of shipping containers.

Some of the distribution and transport operations services (based on PBL) include: door-to-door pick-up and delivery; commercial/government arranged transportation; in-transit visibility (ITV); customs processing and clearance; limited Hazardous Material (HAZMAT) movement.

Regional Warehousing opportunities (notionally USA, Europe and Australia) cover all functions associated with managing a large, international warehousing capability (oversight of the overall F-35 global spares) as well as distributing material in support of F-35 base/ship operations; receipt of incoming material from customers and suppliers; material storage; and packaging outbound shipments – labeling & RFID tags.





DCNS launches third FREMM frigate

More than 500 DCNS personnel and guests watched as the third of the 12 FREMM multimission frigates on DCNS's orderbook was floated out of the building dock at the Group's Lorient facility.

During the 15-minute operation, *FREMM Normandie* was manoeuvred by tugs to the quayside, where it will remain for the next few months while DCNS teams and subcontractors continue construction and assembly work. The next major phase is installation of the mast infrastructure, which will house the vessel's sensor suites (radars, antennas, cameras, jammers, etc.).

Construction of *FREMM Normandie*, the third unit of the class, got underway in October 2009. This next-generation multimission frigate will carry a complement of 108, or around half as many as previous-generation vessels with similar capabilities. It will offer highly flexible capabilities for anti-air, anti-surface and anti-submarine missions.

The French FREMM program calls for 12 ships — 11 for the French Navy. They were ordered by the French defence procurement agency (**DGA**), which appointed **OCAR**, the joint armaments cooperation organisation, to oversee the programme. The 12th vessel will be built for the **Royal Moroccan Navy**.

These heavily armed warships carry state-of-the-art weapons and systems including the **Herakles** multifunction radar, **Aster** anti-air missiles, **Exocet** MM40 anti-ship missiles and **MU90** torpedoes.



Reaper control centre to open in UK

Unmanned aerial vehicle (UAV) combat operations over Afghanistan will begin to be controlled from the UK from "early next month", when a new command centre opens at Royal Air Force (RAF) Waddington in Lincolnshire.

The opening of the site at the end of October 2012 is a major element of plans announced by the UK Ministry of Defence (MoD) in 2010 to double the number of **General Atomics MQ-9 Reaper UAVs** operating in Afghanistan for support of UK and NATO combat operation.—*JDW*



USN finds open-source not so open

As the US Navy pushes to open programs up to competition to drive down costs and increase flexibility, the service remains concerned by proprietary data rights that companies are unwilling to relinquish - an obstacle especially prevalent in systems derived from commercial off-the-shelf products.

The USN has for years pursued “open architecture” systems, under a Pentagon-wide effort to develop software-based systems that can be opened up to competition, allowing for quick and inexpensive software refreshes to keep them up to date. However, several recent **justification and approval (J&A)** documents illustrate that the service frequently has to resort to sole-source contracts because it doesn’t have rights to most of the data and can’t acquire them.—*Inside Defense*



USN expands design options for SM-3 IIB Missile

The US Navy wants the Standard Missile-3 Block IIB missile to be much more capable than previous variants and is willing to expand the design options to include modifications to existing missile-launching systems and the use of liquid propellants, the service has told the Missile Defense Agency.

In a memo issued October 4, Vice Admiral **William Burke**, deputy chief of naval operations for warfare systems, provided the agency with operational planning considerations needed for the development of the SM-3 IIB missile, a “new and important capability.”

Noting the USN’s fleet must operate “forward across the globe to provide the nation with offshore options in an era of uncertainty,” Burke’s memo stresses the service requires a capability that will provide geographic combatant and maritime component commanders with the ability to defend the fleet and critical assets ashore against advanced, very long range, precisely targeted ballistic missiles.—*Inside Defense*

ADM Comment: While the Hobart-class **Air Warfare Destroyers** will be equipped with the **SM-6 long range anti-aircraft missile** it has been suggested by many in the past that it would make more sense if they were also be equipped with the **SM-3 1B** thus combining an anti-air and anti-ballistic missile capability. However as *ADM* has previously reported the RAN is showing no enthusiasm for joining the growing **Aegis ballistic missile** defence community.

ViaSat’s new lightweight terminal

ViaSat has introduced a new portable broadband terminal featuring power-on, auto-acquire antenna pointing that greatly simplifies and speeds up deployment. Designated as the VMT-1220P, this lightweight terminal is targeted for military ground and maritime operations.

The **VMT-1220P** is optimised for ViaSat’s worldwide broadband network, so mobile and



dismounted warfighters can send and receive live full-motion video over the horizon, make secure phone calls, and access classified networks worldwide. Service plans provide affordability through tiered levels of performance and connectivity.

The mechanical design includes a small 16x16x24-inch profile with a hardened radome and electronics base that eliminates the need for a separate carrying case. A lightweight ballistic bag is included for lifting, carrying, and shipping the system.

Rolls-Royce to power US Navy fleet of hovercraft



Rolls-Royce has won a contract to power the US Navy's future fleet of hovercrafts, known as the Ship-to-Shore Connector (SSC).

The Group will work with **Textron Marine & Land Systems** which has been selected to build the initial development craft, in a program that could extend to 73 craft.

The SSC will replace the US Navy's current fleet of **Landing Craft Air Cushion (LCAC)** hovercraft over the next 20 years. The new hovercraft will be used to rapidly deploy personnel and vehicles between US Navy ships and the shore.

Each SSC will use multiple cutting edge **Rolls-Royce MT7 gas turbines**, derived from the highly successful **AE1107** engine, which powers the US Marine Corps' **V-22 Osprey** tilt-rotor aircraft.

On each hovercraft, the MT7 gas turbines will be connected to a sophisticated gearbox system providing both propulsion and lift. Rolls-Royce will also design and manufacture the air intake and exhaust systems.



Portugal cancels Pandur II contract



Portugal have announced a termination of its contract with General Dynamics European Land Systems - Steyr (GDELS - Steyr) for Pandur II 8x8 armoured vehicles.

The announcement by Portugal's Minister of National Defence **José Pedro Aguiar-Branco** means that Portugal will not receive the remaining 94 Pandur IIs previously ordered.—JDW

FORTHCOMING EVENTS.....next page



INVITATION

TO SUBMIT YOUR ENTRY FOR THE 2012
**TOP 40 DEFENCE CONTRACTORS
AND TOP 20 SMEs**
IN AUSTRALIA AND NEW ZEALAND

ENTRIES
CLOSE:
5 NOVEMBER 2012



ADM's TOP 40 Defence
Contractors
ADM's TOP 20
Defence SMEs



TOP
40
DEFENCE
CONTRACTORS



TOP
20
DEFENCE
SMEs

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FORTHCOMING EVENTS

For a full list of defence and industry events, head to **ADM's online events page at www.australiandefence.com.au**

Land Warfare Conference 2012

DATE: 29 October – 2 November 2012, Melbourne Convention and Exhibition Centre, Melbourne

ENQUIRIES: Land Warfare Conference Admin Support Office, Phone: 08 7389 5455; Fax: 08 7389 5196; Email: lwcc@dsto.defence.gov.au
Web: <http://www.dsto.defence.gov.au/lwc2012/>

The Land Warfare Conference is a major event for users, providers, academics, designers and manufacturers to meet, present, share and exchange new and visionary ideas on Land Systems. Academics, commercial organisations, defence research institutions, and military are encouraged to attend and/or offer papers in the field of Land Warfare and related disciplines. An Exhibitor Booth Registration Form and Floor Plan are now available online.

MilCIS 2012

DATE: 6 – 8 November 2012, National Convention Centre, Canberra

ENQUIRIES: Consec – Conference Management, Phone: 02 6251 0675; Fax: 02 6251 0672; Email: milcis2012@consec.com.au; Web: <http://www.milcis.com.au/>

MilCIS is an annual conference aimed at attendees from military and government organisations, academia, and defence industry, who contribute to key decisions in investments in communications and information systems. In addition to keynote presentations, technical presentations, panel discussions and tutorials, MilCIS features an exposition that provides an opportunity for exhibitors to demonstrate new technologies and promote their products and services to attendees. MilCIS is the only Australian conference focussing directly on the crucial technologies, products, systems and services associated with military communications and information systems.

6th Submarine Institute of Australia (SIA) Biennial Conference 2012

DATE: 14-15 November 2012, The Shine Dome, Canberra

ENQUIRIES: David Nicholls (Executive Manager), Email execmgr@submarineinstitute.com Phone: +61 413 133 391 Fax: +61 2 6260 5416

2012 will be a pivotal year for decisions concerning submarines. With the recent announcement of \$214m in funding for the Future Submarine Program and a significant boost in Sustainment funding for the Collins class, the SIA is grasping the opportunity to present powerful arguments to contribute to the development of the 2013 Defence White Paper against the most challenging budgetary circumstances for Defence since 1938. Delegates to the 6th Biennial Conference will hear from a range of influential speakers from Government, overseas and both the Public and Private sectors as they discuss the pivotal considerations for Australia's submarine capability.



ADM's Social Media in the Defence Environment

DATE: 5-6 December 2012, Hotel Realm, Canberra

ENQUIRIES: ADM Events - Jamie Burrage, Ph: 02 9080 4321;

Email: jamie.burrage@informa.com.au **Web:** www.admevents.com.au

Social media in the private sector has been a bumpy journey, where companies tread a fine line between credibility and ridicule whilst getting their policies right. In the public sector, and Defence in particular, the evolution of social media has created opportunities, whilst also highlighting the need for social media policies. This inaugural conference will examine the opportunities that social media can bring to the Australian Defence Force and the Department of Defence. By mitigating the dangers of misuse, social media can be an excellent tool for announcements, for recruitment, for connecting and for selling. There is no denying the place of social media in the modern workforce. Hear speakers discuss what tools and policies can help harness social media into an essential part of the Defence workplace.

ADM2013: 10th Annual ADM Defence/Industry Congress

DATE: 12 – 13 February 2013, Hyatt Hotel, Canberra

ENQUIRIES: ADM Events - Jamie Burrage, Ph: 02 9080 4321;

Email: Jamie.burrage@informa.com.au **Web:** www.admevents.com.au

The annual ADM Congress has evolved into a pivotal event in the Defence calendar, attracting senior officials from all areas of the Defence Force and Defence Industry. It is a critical forum for any organisation operating within the defence business sector. Also do not miss the ADM Awards Dinner. The dinner is the perfect opportunity for you to continue networking with colleagues and new contacts made at the Congress. More details to be released closer to the date

Avalon 2013: Australian International Airshow and Aerospace & Defence Exposition

DATE: 26 February - 03 March 2013, Avalon Airport, Geelong

ENQUIRIES: Aerospace Maritime Defence Association Ph 03 5282 0500;

Email: airshow@amda.com.au; **Web:** <http://www.airshow.net.au>

The Australian International Airshow and Aerospace & Defence Exposition is the essential aviation, aerospace and defence event for the Asia Pacific. Industry-only trade sessions will be held Tuesday to Thursday (all day) and Friday will be both a trade and public day. The exposition will open each day from 9am until 5pm. Associated industry and technology conferences, seminars and symposia will be held at Avalon and in Melbourne and Geelong during show week.

