



DEFENCE WEEK

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PUBLISHING CONTACTS:

EDITOR

Katherine Ziesing,
Tel: 02 6203 9535
Email: katherineziesing@yaffa.com.au

SENIOR CORRESPONDENT

Tom Muir,
Tel: 02 6291 0126
Email: tom.muir@homeemail.com.au

PUBLISHING ASSISTANT

Erin Pittman,
Tel: 02 6203 9535
Email: erinpittman@yaffa.com.au

MANAGING EDITOR

Judy Hinz,
Tel: 07 3348 6966
Email: judyhinz@yaffa.com.au

SUBSCRIPTIONS

Martin Phillpott,
Tel: 02 9213 8325
Toll Free 1800 807 760
Email: martinphillpott@yaffa.com.au



Defence Trade Treaty in force

Minister for Defence Stephen Smith and the US Ambassador to Australia, His Excellency Jeffrey Bleich, have exchanged diplomatic notes to bring the Australia – US Defence Trade Cooperation Treaty into force. The Treaty's entry into force reflects Australia and the US' commitment to cooperation in Defence capability and technology.

The Australia-US Defence Trade Cooperation Treaty was signed in Sydney September 5, 2007, creating a framework for the transfer of eligible defence goods, services and technology between approved entities in Australia and the US, (the Approved Community) without the need to apply for separate export licences. The Treaty aims to improve delivery times, improve sustainment and give Australian industry better access to technical data to tender for US contracts.

Australia is implementing the Treaty through the **Defence Trade Controls Act 2012**. Proclamation of that Act is scheduled to occur on 6 June 2013, and on proclamation from that date, companies interested in joining the Australian Community can apply for membership. The work of the Strengthened Export Control Steering Group, chaired by Australia's chief scientist, **Ian Chubb**, is not affected by the Treaty's implementation and continues with its two year transition period.

The Defence Minister thanked Ambassador Bleich for his personal efforts in advancing defence cooperation between Australia and the US.

Information on the implementation of the Treaty, including the application process, is available on the Defence website: <http://www.defence.gov.au/ustradetreaty/> Companies interested in joining the Australian Community should contact Defence on 1800 00 57 57 or email ustradetreaty@defence.gov.au.





CEA Technologies to develop high power PAR

Tom Muir

Defence has released a Request for Tender to CEA Technologies for the development of a High Power Phased Array Radar concept demonstrator. The Canberra-based company's CEA FAR radar is currently being fitted to the RAN's ANZAC Class Frigates as part of a class fit of the Anti-Ship Missile Defence (ASMD) Upgrade project.

The tender is for the development of radar systems based on the CEA FAR radar which could support future naval acquisitions such as the Royal Australian Navy's Future Frigates through **Project Sea 5000**. The initial part of this investment is anticipated to be in the order of \$4 million dollars.

The CEA FAR radar is a focus of the PAR element of the High Frequency and PAR Priority Industry Capability (PIC). The development of a High Power PAR based on the CEA FAR radar system will build on the already substantial investment made by the government in the domestic radar-related industrial R&D and de-risk radar solutions for the Future Frigates.

Addressing the Canberra division of Engineers Australia this week, **David O'Connor**, CEA technologies software engineering manager - PAR projects, spoke on Engineering Complex Radar Systems. He said that radar technology was undergoing a slow revolution as high power transmitters transition from vacuum tube based technology to solid state, and as antennas shift from passive mechanically moved structures to electronic beam steering phased array.

This, he said, was complemented by the real time capabilities of massively parallel embedded logic and processing providing dynamic and in field programmable capabilities.

Many of these technological advances have recently been delivered to the Royal Australian Navy as part of the ANZAC ASMD upgrade program. This Australian developed solution has demanded the skills and innovation of teams across many engineering domains. These include, mechanical, thermal, antenna, electronics, computing, simulation, analysis, algorithm development, manufacturing and materials.

He said the functional and implementation complexity of such a system is best judged by a few simple scaling factors. The system continually captures and processes over half a terabyte of data per second; it has more than 14,000 individual antenna elements and thousands of individual executable programs and parameter sets. The final data presented to the operator is represented graphically by less than 100 kBytes of data per second and this appears less than 100 milliseconds after the data was acquired.

ADM Cyber Security Conference

Date: 12-13 June 2013, Hotel Realm, Canberra

Enquiries: Jamie Burrage, Tel: +61(2) 9080 4321;

Email: Jamie.burrage@informa.com.au





BAMS at last with MQ-4C Triton?

Tom Muir

As outlined in the 2013 Defence White Paper the government intends to replace the AP-3C fleet with P-8A Poseidon aircraft, complemented by unmanned aircraft capable of undertaking broad area maritime surveillance and fleet overwatch. The goal is to provide long-range, long-endurance maritime surveillance and response and an effective anti-submarine and anti-surface warfare capability.

One of the options being considered for **Air 7000 Phase 1B** is the **US Navy**

MQ-4C Triton Broad Area Maritime Surveillance Unmanned Aircraft System produced by **Northrop Grumman**. The MQ-4C Triton is a developmental variant of the **Global Hawk** surveillance aircraft which is being specifically developed for maritime surveillance roles.

To help assess the suitability of the Triton for Australia's requirements, an FMS Technical Services Case will be raised with the US Navy to obtain detailed cost, capability and availability information. The release of a Letter of Request for the FMS Technical Services Case does not commit Australia to the acquisition of the MQ-4C Triton. Defence says it will continue to investigate options for a mixed manned and unmanned aircraft fleet for consideration later in the decade. (According to the US Navy's cost department the Triton's average recurring flyaway cost for an 18-aircraft buy is \$98 million each.)

Defence says it will also analyse the value of further investment in unmanned aircraft for focused area, overland intelligence, surveillance and reconnaissance, including for use in border security operations.

This will include the potential expansion of the role of these assets in the ADF to include interdiction and close air support, subject to policy development and government consideration.

GH into Triton won't go

While Australia ponders the possible acquisition of the MQ-4C Triton for its unmanned maritime surveillance requirement, the US Air Force has released a report showing that it is less expensive for the service to conduct a variety of high-altitude, long-endurance reconnaissance missions using the RQ-4 Block 30 Global Hawk aircraft than using the U-2 spy plane (who's surprised?).

But Air Force officials have told Congress, that they intend to continue using the U-2 because it is too costly to transfer the U-2's sensors over to the Global Hawk fleet, a move that would be needed should the Global Hawk take over the mission. They said that while the RQ-4 GH 30 cost less to send on an ISR mission than to use a manned U-2 spy plane, to some extent this could be ameliorated by deploying U-2s closer to



their target search areas. And faced with more RQ-4s than they want - the USAF has sought 'relief' from a Congressional mandate requiring the purchase of three RQ-4 Global Hawk unmanned aircraft.

It seems that the Air Force were hoping these could be converted to Triton configuration and thus acceptable for purchase by Navy. However the report said that while converting GH Block 30 aircraft to MQ-4C configuration was technically feasible it was not recommended since it would cost \$860 million more than what is currently planned to acquire 18 MQ-4C Tritons. This large disparity in cost is due to the fact that it must meet the basic mission requirement to conduct maritime and littoral ISR missions as well as the Triton's C3 tasks.

Qantas Defence Services for sale



Tom Muir

Reports that Qantas Airways is looking for a buyers for its defence services division, which is expected to generate between \$80 million and \$100 million, with Boeing Australia, BAE Systems Australia and Northrop Grumman as possible targets, suggests some interesting possibilities.

We suspect that Northrop Grumman may well be interested especially on the back of the likely acquisition of the **MQ-4C Triton** for the **Air 7000** unmanned maritime surveillance requirement, opening up possibilities not only of maintaining the aircraft by the OEM, but also in modifications or upgrades in the aircraft's sensor suite to meet Australian requirements.

The current Triton payload comprises 360-degree field of regard (FOR) sensors including multifunction active sensor (MFAS) electronically steered array radar, electro-optical / infrared (EO/IR) sensor, automatic identification system (AIS) receiver and electronic support measures (ESM). The payload also includes communications relay equipment and Link-16. The MTS-B multispectral targeting system performs auto-target tracking and produces high resolution imagery at multiple field-of-views and full motion video. The AN/ZLQ-1 ESM uses specific emitter identification (SEI) to track and detect emitters of interest.

Northrop Grumman has been developing strong Australian industry links, notably with CEA Technologies, with 49 per cent ownership. Will the potential of this relationship be realised with the MQ-4C Triton acquisition and the possibility of CEA Technology's high power PAR demonstrator finding a role not only in Sea 5000 Future Frigate but also as an upgrade to the Triton's MFAS maritime radar?





Plan Beersheba takes shape

The introduction of armour to each of the Army's three multirole combat brigades will be one of the service's most important and most obvious changes over the next five years. Under Plan Beersheba, each brigade will include two infantry battalions, an artillery regiment, a combat engineer regiment, a combat service support battalion, a combat signals regiment and an armoured cavalry regiment (ACR).

"Grouping in this manner supports more effective force generation for operations and allows all the components of the combined arms team to train together regularly," **Major General Sengelman** said.

"The ACR is a specialist mounted combat capability. Each regiment consists of a tank squadron, a cavalry squadron, an APC squadron and a combat service support squadron."

Under the current structure, most armoured and mechanised capability is centred in 1 Bde. Introducing multirole combat brigades (MCBs) under Plan Beersheba will improve the Army's ability to maintain a sustained period of operational tempo, such as has been experienced over the past 14 years.

Recent operational experience has highlighted that the ability to generate combined arms teams with varying levels of protection and lethality is critical to maintaining the initiative against an adaptive enemy. The ACR is designed to be augmented or task organised with other combat, lift, combat support, intelligence, surveillance, target acquisition and reconnaissance capabilities, as well as with joint capabilities from the Air Force and Navy.

ACR trials will be conducted during Exercise Hamel next month and the first regiment will be implemented in 1 Bde next year. Subsequent regiments are expected to be implemented into 3 Bde and 7 Bde in 2015 and 2016 respectively. The School of Armour will evolve its courses to support changes to the trade structure and training continuum-Army



Chinook crashworthy seats pass major milestone

Griffon Defense Systems (GDS) has successfully completed the crash testing of the Australian Defence Forces (ADF) award-winning crashworthy CH-47 troop seat.



As a precursor to production GDS, working with the National Institute of Aviation Research (NIAR) located in Wichita Kansas, completed testing of a crashworthy troop seat as part of the ADF's Main Cabin Upgrade (MCU) package for the **CH-47 Chinook**. This effort is part of a contract from the ADF to GDS for production of the Main Cabin Upgrade (MCU).

The seat testing, conducted at NIAR, demonstrated crash load attenuation that significantly exceeds the requirements of FAR29, and meets the requirements of MIL-STD-85510 with an occupant weight of 240lbs, at 21.1G forward (sideways facing) and 26.6G downward. The seat in combination with a five point harness provides a stroking design that attenuates energy during a crash event to reduce loads and accelerations experienced by the occupant, greatly enhancing survivability.

Crashworthy seating is a mandatory feature of new aircraft designs, however this is the first time that MIL-STD-85510 compliant passenger seating has been developed for the older CH-47 aircraft. This innovative design won a number of safety awards for "Best Solution to an Identified Workplace Issue" in Australia during 2011.

The seat is part of an integrated upgrade package (the MCU) replacing the legacy CH-47 floor and troop seats with a fully integrated cargo and seating solution. The solution enables a CH-47 aircraft to be reconfigured in flight, without tooling, to accept a wide range of palletized, wheeled, or passenger cargo, within a crashworthy and ballistically protected environment. The MCU is the only known solution to offer full passenger crashworthy seating within the main cabin area of Chinook and not constrain the aircraft's roles or attributes.

"Working with GDS in a collaborative effort as we have, we have designed the safest and arguably the most multi role efficient Chinook in existence anywhere in the world," **Len Brown**, ADF Project Manager, said. "Certainly GDS has established a new benchmark in Occupant Safety and Cargo Operations efficiency. The MCU is gaining a lot of interest from International Defence Forces and it is easy to see why. In acknowledging what is available in the Market Place today, it is believed the MCU will become the Solution of Choice."

The ADF, GDS, and NIAR are preparing additional tests to certify the deck and surrounding structure with the certified seat.



Lithgow Arms showcases new rifle

Lithgow Arms is showcasing a prototype of the first new civilian rifle to be designed and built in

Lithgow for over 40 years, which will be the only mass-produced rifle currently made in Australia.

The **LA101 CrossOver concept** will be debuted at this week's Shot Expo in Melbourne, with feedback welcome from the Australian shooting community before production commences.

It will initially be offered in .22 LR, .22 WMR and .17 HMR Rimfire calibres, and will



feature a wider fore-end and more vertical handgrip for stable bipod or bench use, a heavy barrel for stability, accuracy and slow heat build-up, plus rapid and smooth bolt operation with triple-lug 60-degree locking. Centrefire variants in .223 and .308 will follow.

The stock will include an integral moulded trigger guard and butt hook for improved prone hold, and will be made from the same injection moulded nylon as **Thales Australia's new Austeyr-based EF88 rifle** currently being developed for the ADF, as well as the **F90 export variant**.

The LA101 CrossOver barrel will have a proprietary semi match chamber for improved accuracy with a wide variety of ammunition. Each military grade steel barrel will be cold forged, manufactured on the same machine at Lithgow that makes barrels for the ADF's Austeyr rifles and ensures their outstanding accuracy – the only such machine in the southern hemisphere.



Victorian defence capabilities on show

Victoria's advanced manufacturing strengths in defence, aerospace and automotive will be on show during a trade mission to the US led by Minister for Manufacturing David Hodgett and supported by the Chair of the Defence Council Victoria, Ric Smith AO PSM.

Twenty four companies and organisations are taking part in the mission, which will run from 20 to 24 May in Washington DC and Detroit.

Mission members and Hodgett will meet with key decision makers of major US companies including **Lockheed Martin, General Dynamics, Northrop Grumman, SAIC, Ford** and **General Motors**, and attend a series of industry networking events.

Hodgett said the Victorian Coalition Government was committed to strengthening the state's defence industry which has an annual turnover of around \$1.5 billion.

Hodgett said Victoria already enjoyed strong links with the US defence, aerospace and automotive sectors and this mission would build on them to develop new supply chain opportunities.

"Victorian companies have secured 75 per cent of all the **Joint Strike Fighter** work currently awarded in Australia, and account for 50 per cent of all Australian contracts awarded through the Defence Materiel Organisation's **Global Supply Chain** program, many of them with major US defence and aerospace companies," Hodgett said.

Hodgett said it was the 55th trade mission supported or organised by the Victorian Coalition Government since November 2010.

"Nearly 1,800 Victorian companies and organisations have taken part in these trade missions. They provide a unique platform to access global markets as part of boosting our industry and business productivity, competitiveness and export readiness," Hodgett said.



Land Environmental Working Group

The next meeting of the Land Environmental Working Group (LEWG) will be held on 21 June 2013 at the National Convention Centre, Canberra.

This meeting will provide another opportunity for defence and industry representatives to discuss the latest updates with regard to DCP projects.

Agenda

0830-0900: DGLD Strategic Overview BRIG Roger Noble

0900-0930: LEWG Co-Chair Mr. Gerard Ogden

0930-1000: Chief Defence Scientist Dr. Alex Zelinsky

1030-1045: RPDE Brief Ken Snell

1045-1115: DMO: Head Land Systems Div MAJGEN Paul McLachlan

1115-1135: Land 400 BRIG Nagy Sorial

1135-1200: Question and Answer Session

1230-1330: Lunch

1330-1600: One-on-one sessions Torrens Room

Please RSVP for the 21 June LEWG meeting no later than 14 Jun 2013 on the LEWG Govdex site. Please contact MAJ Erin Frazier for access to Govdex or for any additional information. E-mail: erin.frazier@defence.gov.au Office: 02 6265 4820.



Queensland serious about defence industry: Seeney

Queensland Deputy Premier Jeff Seeney hosted a reception in Brisbane on Wednesday night (22 May 2013) to introduce Queensland's newly-appointed defence industry envoy Lindsay Pears.

The appointment of Mr Pears was announced by the Newman Government back in March this year.

Lindsay Pears has an extensive background in the defence/industry sector, most notably with Boeing, and more recently as president of Saab Technologies Australia.

Mr Seeney emphasised Queensland's significant defence presence – the state is home to a quarter of Australian Defence Force (ADF) military personnel and has a 26 per cent share of national defence industry activity – and that the government is serious about securing defence business for the state.

The new Defence Industries Queensland (DIQ) unit, announced alongside the appointment of Lindsay Pears, will be a focal point for development of the sector in the state.

The launch event was well attended with some notable industry representatives spotted in the crowd, including a number of interstate visitors.

Neale Prescott and **Chris Hess** from **Lockheed Martin**, **Brian Warner** from **Rohde & Schwarz**, **Hannelore Duczek** from **Rheinmetall MAN Military Vehicle Systems** rubbed shoulders with local defence industry luminaries such as **Robert Nioa** from **Nioa Defence**, **Warwick Penrose** and **Narelle Hofmann** from **Explosive Protective Equipment**, **Paul Feighan** from **Thales** and **Dave Tomlinson** from **Rheinmetall MAN Military Vehicles**.





ADM Online: Weekly 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, Defence officials announced that the government will issue a Letter of Request (LOR) to the US to gain access to detailed cost, capability and availability information on the US Navy's **MQ-4C Triton unmanned aircraft**.

Rheinmetall MAN Military Vehicles Australia (RMMVA) was awarded a contract to supply New Zealand's armed forces with up to 200 vehicles.

Insitu Pacific delivered a **ScanEagle Unmanned Aircraft System (UAS)** to its



partner Mitsubishi Heavy Industries (MHI) of Japan.

And, MBDA and Lockheed Martin entered into a **Memorandum of Understanding** to jointly explore the market for the integration of MBDA naval missile systems into Lockheed Martin launching systems.

International



First vertical takeoff for F-35B

Lockheed Martin has revealed that an F-35B fighter jet made its first vertical takeoff on May 10 at Naval Air Station Patuxent River, Maryland.

This follows on the heels of its first vertical night landing on April 2 at the same location. The vertical

takeoff capability is designed for moving the strike fighter over short distances in an emergency when a runway isn't available, but it is not seen as a combat feature due to its heavy use of fuel.





Schedule slip for LCS

The US Navy and its Littoral Combat Ship builders, Austal and Lockheed Martin, have agreed to delay delivery of the ship for the sake of holding down cost as the two builders transition from prototype construction to serial production under a

block buy of 10 ships each, officials said last week.

“Early limited availability of skilled shipbuilding personnel” contributed to some of the delay during the transition to serial production, Naval Sea Systems Command spokesman **Matt Leonard** told *Inside the Navy* on May 15.

“As work on other vessels has completed, manpower to support LCS construction is returning to planned levels,” he said. “While both LCS industry teams [Lockheed Martin/**Marinette Marine** and **General Dynamics/Austal USA**] have transitioned from single-ship to serial production at a rate slower than initially estimated, they have done so at a rate that has maintained solid cost performance. The serial production schedule will result in an LCS being delivered, from each shipbuilder, every six months.”



BMT reports strong performance

BMT Group Ltd (BMT) has announced another strong financial performance for the year to September 30, 2012.

By focusing on markets where it can deliver high-value customer solutions, revenues from BMT’s continuing businesses rose 22 per cent to £156 million and underlying operating profits increased to £13.7 million, a proportion of which has been distributed to the staff through the company’s profit share schemes.

“Despite challenging trading conditions, underlying operating profit margin rose from six per cent to nine per cent, bringing us closer to the industry norm for companies within the high-value engineering sector,” **David McSweeney**, BMT’s finance director said.

Comprising 23 operating companies, involved in activity across five continents, the BMT group continues to concentrate on its core maritime-focussed offering in the organisation’s three sectors of defence, energy & environment and transport. Highlights of the year include the acquisition of **Oceanica Consulting Pty Ltd**, a



specialist coastal and marine environmental consulting company based in Australia; a successful contract win to provide specialist dredging consultancy services to Rio Tinto in Western Australia; the delivery of weather forecasting services in the Java Sea; and the UK Ministry of Defence's LETacCIS (Land Environment Tactical Communication and Information Systems) contract which saw BMT lead its partners in support of the early phases of this acquisition program.



Apache Hellfire missiles restocked

The UK MOD has signed a GBP15 million contract to replenish the Army's stock of supersonic Hellfire missiles used by Apache helicopters.

The 100-pound (45kg) Hellfire precision missile is Apache's primary weapon. Used by crews in Afghanistan, it also proved itself repeatedly during

the Libya campaign when Apaches flew from the deck of HMS Ocean against Colonel Gaddafi's forces.

Its successful use in Afghanistan and in training has reduced UK stocks of the missiles, which is why MOD has signed an order for more Hellfires.

Each Apache can carry up to 16 Hellfires, which are mounted in sets of 4 beneath the helicopter's stub-wing pylons. Each missile has its own guidance computer, steering control and propulsion systems, which help to ensure precision targeting.

The air-to-surface missile can travel at up to 425 metres per second; which means it takes fewer than 20 seconds to reach a target five miles away.



Cubic awarded US\$21 million FMS training contract

Cubic Corporation has been awarded a \$21 million foreign military sales

contract for its Engagement Skills Trainer 2000 (EST 2000) Plus, virtual small arms training system.

The US Army's Program Executive Office for Simulation, Training and Instrumentation (PEO STRI) awarded the contract to Cubic in support of a foreign customer. The order includes systems, weapons, and in-country support with a key subcontractor.

EST 2000 uses digital video projectors, high-definition screens, game-based computer graphics and ballistically accurate weapons for marksmanship, collective and escalation of force training.

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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

ADM Cyber Security Conference

DATE: 12-13 June, 2013, Hotel Realm, Canberra

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

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

ADM's 3rd Cyber Security Summit will see stakeholders from Australia's Defence and National Security agencies address the current and emerging cyber threats to Australia's security. More details to be released closer to the date.

Land Environment Working Group

DATE: 21 June 2013, National Convention Centre, Canberra

ENQUIRIES: Erin Frazier: erin.frazier@defence.gov.au, Ph: 6265 4820

Web: www.govdex.gov.au

This meeting is an opportunity for Industry representatives to discuss projects in the DCP with project managers. The way ahead for Land Development Branch in Capability Development Group will also be discussed. Interested participants can register and RSVP for the event through the Govdex website. Access to this website can be granted by sending an email to Erin Frazier.

DSEI

DATE: 10-13 September, 2013, ExCel, London

ENQUIRIES: **Web:** www.dsei.co.uk

DSEI is the largest fully integrated defence and security show in the world, featuring Air, Naval, Land and Security show content. Based in ExCeL, London every two years, the event provides unrivalled access to key markets across the globe.

SimTecT

DATE: 16 Sep - 19 Sep, 2013, Brisbane Convention and Exhibition Centre, Queensland

ENQUIRIES: **Web:** www.simtect.com.au

SimTecT is the annual Simulation Technology and Training Conference held by Simulation Australia. Since its inception in 1996, SimTecT has grown to become Australasia's premier simulation conference for industry, government and academia.

2nd annual ADM Defence Support Services Summit

DATE: 19 Sep, 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 Defence Support and Reform Group has an annual budget of \$3.9 billion, with an asset base in excess of \$20 billion and around 2,600 civilian and 1,100 military staff. It provides a diverse range of products and services to support over 100,000 ADF personnel and Australian Public Service (APS) employees.