



News from the Boeing world

September 2012

Boeing Australia & South Pacific

Boeing supports War Memorial

Boeing Australia continues its long partnership with the Australian War Memorial in 2012, supporting the conference *Kokoda: beyond the legend* held in Canberra on September 6th and 7th to mark the 70th anniversary of the campaign.

Boeing Australia joined with the War Memorial to sponsor internationally renowned historian Antony Beevor as the inaugural Australian War Memorial Boeing Visiting Fellow to deliver the keynote address at the conference.

“The Australian War Memorial celebrates all the values held high by Australians and the Australian Defence Force,” said Ian Thomas, President of Boeing Australia & South Pacific. “It tells the story of Australia’s nationhood, interwoven with tales of heroism, mateship and commitment. It is Boeing’s privilege to support such a worthy institution.”

The Australian War Memorial is one of four local organisations supported by the Boeing global corporate citizenship program in 2012. Boeing is also working with The Smith Family, Greening Australia and the Stephanie Alexander Kitchen Garden Foundation to deliver community programs across Australia.

KOKODA BEYOND THE LEGEND



Bringing together military historians from Britain, the United States and Australia, this conference will reassess the principal battles fought in Papua in 1942 and discuss the campaign from both Allied and Japanese perspectives.

6-7 SEPTEMBER 2012
INTERNATIONAL CONFERENCE

Boeing Australia & South Pacific logo and contact information.

EA-18G Growler will be a force multiplier for Australian defence capability: CAF



The Australian Government will fit 12 of its fleet of 24 F/A-18F Super Hornets with EA-18G Growler capability, making it the only country outside of the United States to operate the electronic attack aircraft.

Stephen Smith, Minister for Defence (above right), said Growler was a very important acquisition for Australia.

“The purpose of the Growler, of course, is it provides a capacity to jam the communications system of an adversary, whether that adversary is a nation-state, or indeed a non-state actor, in other words, jam the communications system of a group of terrorists as well as a traditional adversary,” Minister Smith said.

Australia operates 24 F/A-18F Super Hornets. The first aircraft joined the RAAF fleet in March 2010 with the final five delivered in October 2011 – ahead of schedule and under budget. Twelve of the aircraft were pre-wired for Growler conversion during production in St Louis.

Air Marshall Geoff Brown, Chief of Air Force (above left), said the conversion will improve the Australian Defence Force’s

(ADF) ability to operate in complex, and increasingly hostile electronic battle space.

“It’s a force multiplier right across all of the ADF’s capabilities, whether it’s air, land, sea, and cyber, and it’s certainly a unique capability with its ability to deny and disrupt an adversary’s use of the electronic spectrum,” Air Marshall Brown said. “In my view it’s probably the biggest strategic increase in the ADF’s capability since we ordered the F-111.”

Bill Profflet, vice president of Business Development Australia for Boeing Defense, Space & Security, said Boeing has been a significant partner for the ADF.

“We have a long and proud history of supporting the ADF and providing Australia with Boeing aircraft and systems,” Profflet said. “Those aircraft are performing extremely well for Australia – particularly in conjunction with other Boeing-built aircraft such as the Wedgetail Airborne Early Warning & Control aircraft, as recently demonstrated in Exercise Pitch Black – and the Growler acquisition will deliver outstanding capability for Australia.”

Minister Smith said he expected the Growlers to be available for operations from 2018.

787 Dreamliner one year on

Boeing has celebrated the one-year anniversary of certification of the 787 Dreamliner.

On August 26 2011, both the US Federal Aviation Administration (FAA) and the European Aviation Safety Agency granted type certificates for the all-new jetliner. In addition, the FAA added the 787 to the Boeing production certificate.

“Receiving those documents marked a real turning point for the 787 program and was an historic milestone for The Boeing Company,” said Larry Loftis, vice president and general manager of the 787 program.

“Certification demonstrated that the aircraft met the all requirements for commercial operations, that we had completed the most rigorous test program in our history and that the Dreamliner was ready to enter revenue service.”

To date, 17 787s have been delivered to airlines and the program has more than 800 unfilled orders with 58 customers worldwide.

“It’s been a great 12 months for the 787 team,” said Loftis. “And better yet, we see a long, bright future for this program.”

John Wojick named BCA sales leader

John Wojick has been named the new vice president of Sales for Boeing Commercial Airplanes. Wojick succeeds Ray Conner, who was named president and CEO of Boeing Commercial Airplanes in June.

Wojick, a 32-year veteran of commercial airplanes who began his career as an aerospace engineer, moves to his new position from vice president, North America Sales for Commercial Airplanes.

“John is our most seasoned sales leader with in-depth knowledge of almost every Boeing customer worldwide,” said Conner. “His extensive knowledge of our products and services puts him in the best position to help our customers address their fleet and operational needs and be successful in today’s competitive environment.”

Boeing plays a key role in mapping Australia’s manufacturing future



Ian Thomas, president Boeing Australia & South Pacific, David Oliver, national president Australian Council of Trade Unions, and Innes Willox, chief executive of the Australian Industry Group, present the Manufacturing Taskforce report to Prime Minister Julia Gillard. Photo: Auspic

Boeing Australia has provided a strong industry voice in the discussion about the future of Australia’s manufacturing sector in the face of increasing regional competition and a high Australian dollar.

Ian Thomas, president of Boeing Australia & South Pacific, was appointed to Prime Minister Julia Gillard’s Manufacturing Taskforce last year, along with key industry leaders, senior government ministers, unions and research organisations, and charged with the responsibility of developing a roadmap for the future success of the local manufacturing industry.

“Boeing is a significant employer in the Australian manufacturing sector and an important industry partner,” Thomas said.

“Participating in the Manufacturing Taskforce has provided Boeing with an opportunity to work closely with partners in industry, government, academia and employee associations to help shape the future direction of the local industry and to share some best practices as we focus relentlessly and globally on enhancing growth, productivity and innovation.”

Boeing’s approach to manufacturing in Australia was highlighted publicly by the prime minister as she received the panel’s final report Smarter Manufacturing for a Smarter Australia.

Prime Minister Gillard said despite the challenges facing the manufacturing sector, there were some great success stories, with “strong businesses like Boeing, making the Dreamliner” components in Australia.

Michael Edwards, general manager of Boeing Research & Technology-Australia, was a member of the taskforce’s technical working group.

“Boeing has a demonstrated record in Australia of developing technology to create a high-value manufacturing environment,” Edwards said. “There has been tremendous value in bringing businesses like Boeing together with industry leaders, unions, research organisations and the government to develop a shared vision for the future of the manufacturing sector.”

The taskforce report made 41 recommendations focused on policies around innovation, making research organisations more business-facing; developing skills and education; energy and climate policy; procurement, including for the defense sector; lifting management capabilities; and trade.

Boeing Aerostructures Australia has some 1,400 employees in Sydney and Melbourne who manufacture complex aerostructures, including the moveable trailing edge for the 787 Dreamliner.



Boeing to support Hawkei prototypes

Boeing Defence Australia (BDA) will provide Integrated Logistics Support (ILS) during the next stage of development of Thales Australia's Hawkei Protected Mobility Vehicle - Light prototypes.

The contract will be delivered under Stage 2 of the Manufactured and Supported in Australia option for the LAND 121 Phase 4 program for the Australian Army.

"BDA and Thales Australia are a formidable team, and on this project we bring together the best of both companies – BDA's leading in-country ILS expertise and Thales Australia's protected-vehicle design expertise," said Kim Gillis, managing director, BDA.

Under the AU\$3.5 million contract, BDA will deliver ILS services to the Thales team for six Hawkei prototypes and a trailer that will be delivered to the Commonwealth for further testing.

During the 16-month prototype production and testing phase, BDA will work with Thales Australia to help increase the vehicles' long-term availability and maintainability, with a view to reducing future support costs. This includes delivering development and training to operators, conducting logistics support analysis and providing logistic engineering support to the Thales design team.

"The Hawkei is very much a team effort, and Boeing's involvement since the project's early days has enabled us to deliver innovative prototypes specifically designed to meet the current and future requirements of the Australian Defence Force," said Chris Jenkins, Thales Australia CEO.

Simulator-based training for Army pilots

Boeing Defence Australia (BDA) has installed a Helicrew simulator at the Oakey Army Aviation Training Centre to enhance the capabilities of its flight instructors.

The simulator, leased from Ryan Aerospace, is a procedural trainer allowing flying instructors from BDA to safely and cost-efficiently enhance skills, and plan training exercises in a variety of simulated situations.

Helicrew is designed to replicate the Bell 206B-1 Kiowa, which the Australian Army uses as an initial training helicopter before pilots transition to operational rotorcraft.

Through the Army Aviation Training and Training Support (AATTS) contract awarded in 2007, Boeing supports the Army's Kiowa, Black Hawk and CH-47 Chinook helicopters with pilot, aircrew and technician training, operational fleet maintenance, and support services.

"The Helicrew gives us the flexibility to plan training exercises much more quickly than before," said Charlie Stone, chief pilot at AATTS. "It also allows us to better prepare



for emergencies in a safe environment, and to assess our performance at any point of the exercise – all of which will ultimately benefit pilots in training."

"Our investment in the Helicrew shows our ongoing commitment to supplying industry-leading, in-country instruction to align with the future of rotary wing training," noted Mark Brownsey, AATTS project manager for BDA.

As BDA develops this synthetic capability it will work with customers to generate opportunities for cost-effective, lower-risk pilot instruction.

Pitch Black a success for Boeing platforms

Exercise Pitch Black 2012, Australia's biennial air combat training activity, concluded on Friday 17 August after three weeks of offensive counter air and offensive air support operations that included large formations of multi-national aircraft over Northern Territory skies.

The exercise was the result of months of successful work by participating nation's including Australia, Singapore, Thailand, the United States, Indonesia and New Zealand.

Air Commander Australia, Air Vice-Marshal Mel Hupfeld, said all involved gained valuable experience from participating in a high tempo, multi-national air operations environment.

"This is vitally important for all of our aircrew, maintainers and support staff," Air Vice-Marshal Hupfeld said.

"The first time inclusion of the RAAF Super Hornet, Wedgetail Airborne Early Warning and Control aircraft and KC-30A Multi-Role Tanker Transport aircraft contributed to a more complex undertaking this year.

"The success of the exercise is testament to the professionalism, planning and flexibility of all participating nations."

Pitch Black is a biennial exercise and is scheduled to occur again in mid 2014.



An F/A-18F Super Hornet taxis during Exercise Pitch Black 2012. The F/A-18F Super Hornets from No. 1 Squadron, RAAF Base Amberley QLD, participated in Exercise Pitch Black for the first time this year. Photo: Australian Defence

Australian-designed JDAM-ER completes wind tunnel tests

A winged version of Boeing's Joint Direct Attack Munition (JDAM) that will triple the weapon's glide range to more than 40 miles is a step closer to production after completing wind tunnel tests at a US facility in June.

Developed in partnership with the Commonwealth of Australia, the 500-pound JDAM Extended Range (JDAM-ER) features a modular add-on wing kit that will unfold in flight.

Boeing will produce and integrate the JDAM-ER wing kits for the Royal Australian Air Force under a contract awarded in 2011. The kits will be built in Australia, with initial deliveries expected to begin in early 2015.

"By successfully transitioning this technology from prototype to production, the Australian Defence Force will be able to further reduce the risk to its personnel on operations, allowing RAAF aircrew to engage their targets from beyond the range of enemy air defences," said Jason Clare, Australia's Minister for Defence Materiel.

DAM is a low-cost guidance kit that converts existing unguided bombs into near-precision weapons. Boeing intentionally designed its JDAM kit to be modular so the product could mature with a variety of technological upgrades. Boeing has built more than 238,000 JDAM tail kits in its St. Charles, Missouri, facility since production started in 1998.

Velocity

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Internships support next generation of Australian aerospace engineers



Boeing interns Chelsea (left), Rhianna and Elizabeth were treated to a tour of the Dreamliner during its visit to Brisbane in May. Photo: Boeing

By rolling up their sleeves with Boeing Australia's engineering teams, three enthusiastic university students are taking advantage of opportunities they never would have imagined.

Queensland University of Technology (QUT) engineering students, Rhianna Ferguson, Chelsea Redman and Elizabeth Roy are participating in internships at Boeing Defence Australia (BDA) and Boeing Research & Technology–Australia. Ferguson and Redman are helping keep the Royal Australian Air Force's fleet of Super Hornets mission-ready at RAAF Base Amberley; Roy has turned her attention to unmanned aerial systems research with BR&T–Australia.

"At Boeing we recognise that tomorrow's aerospace and defense technologies will come partly from inspiring and mentoring the students of today," said Ian Thomas, president of Boeing Australia & South Pacific. "As a company Boeing remains deeply committed to the success of higher education and STEM programs, and in Australia we are working to ensure that the global aerospace industry has a bright future by pairing dedicated employees with the emerging talent of the future."

Ferguson, who has always been inspired by space and aircraft, said working at Boeing during her third year of university has been

an invaluable experience, enhanced further by the opportunity to travel to Boeing sites in the United States last year.

"A century ago, no-one would have believed it possible that humans could break the sound barrier or travel to the moon, however aerospace engineers have made both these things possible," said Ferguson. "The excitement of pushing the technological envelope and doing things which have never been done before is what has driven me to pursue a career in this industry."

For Redman, the internship has been an opportunity to get ahead of the pack. "I have attained many important contacts and have been exposed to key concepts that I am yet to touch on at university," she said.

Brendan Williams, Boeing Associate Technical Fellow and research program lead from BR&T–Australia, who mentors all three students, said the task was just as rewarding for him as it was for the students.

"All three students have the right attitude, creative spirit and drive to contribute to real projects, which makes mentoring a rewarding experience," he explained. "Mentoring is a unique opportunity to give back and stay connected with fresh new talent and perspectives coming from our universities."