



News from the Boeing world



August 2012



Boeing Australia & South Pacific



## Boeing aircraft, innovation and technology highlighted at Farnborough Airshow

Boeing's new aircraft and innovative technologies attracted customers, partners, government officials and media at the 2012 Farnborough International Airshow. The show saw the first flying display of the innovative 787 Dreamliner in Qatar Airways livery and the new Enduring Awareness Pavilion, a display of advanced command, control, communication, computer, intelligence, surveillance and reconnaissance (C4ISR) capabilities.

During the show, 737 customers announced orders and commitments for 396 aircraft, valued at more than \$37 billion. The 737 MAX has accumulated 649 orders to date.

Boeing also shared plans for the 2012 ecoDemonstrator, an American Airlines 737-800 that will be used as a flying testbed to accelerate environmentally progressive technologies. New Boeing offerings for defence and security customers unveiled at the show include a medium-sized Maritime Surveillance Aircraft and the introduction of the Intelligent Sensor Camera System.

Other highlights at the show were the presence of the multi-role F/A-18F Super Hornet fighter; the Bell Boeing V-22 Osprey tiltrotor; the C-17 Globemaster III airlifter; the F-15E Eagle fighter and the AH-64D Apache Longbow attack helicopter.

## Boeing Next-Generation 737 Performance Improvement Package

Customers of Boeing's Next-Generation 737 are validating the benefits of the industry-leading Performance Improvement Package (PIP), one year after the first PIP airplane was delivered. PIP combines aerodynamic and engine performance improvements to reduce fuel burn by up to 2 percent and is part of the continuous innovation on the world's best-selling airplane. More than 420 Next-Generation 737s have now been delivered with PIP.

"The Performance Improvement Package has contributed to a remarkable fuel mileage improvement compared to the non-PIP airplanes," said Takeshi Katsurada, vice president of flight operations engineering for Japan Airlines. "We can validate its improvement through each delivery flight performance monitoring and also daily flight operations monitoring to the extent of more than 2 percent fuel mileage improvement."

Elements of the performance improvement package, provided at no charge to customers, have been gradually introduced on the 737 over the past year. They include aerodynamic-shaped anti-collision lights, streamlined slat and spoiler trailing edges, ski-jump wheel well fairings re-contoured to smooth the air flow near the main landing gear, and enhancements to the CFM engine. A re-contoured plug and cutback nozzle completed the propulsion portion of the performance improvement package. The final element of the package, a redesigned environmental control system exhaust vent, is scheduled for mid-2013.

"These improvements are important for our airline customers," said Beverly Wyse, vice president and general manager of the

737 program, Boeing Commercial Airplanes. "The improved fuel savings are part of our commitment to deliver market-leading value to Next-Generation 737 customers. Improving fuel efficiency by 2 percent saves more than \$120,000 annually on each airplane and reduces the carbon footprint."

Boeing began performance improvement testing in November 2010 with the goal of reducing fuel consumption by up to 2 percent.

"Our latest tests have shown that aircraft, which incorporate the Performance Improvement Package, provide flydubai with up to 1.6 percent reduced fuel burn over non-PIP aircraft," said Ghaith Al Ghaith, CEO of flydubai. "With a growing fleet, any savings we can make towards our fuel costs are positive from both a financial and environmental perspective. We look forward to Boeing introducing the final part of the package, which will provide us with even greater fuel savings."



Virgin Australia has introduced 737-800 aircraft equipped with the PIP as part of its ongoing fleet renewal programme.

# Boeing Stands Up Australian Super Hornet Sustainment Capability



Boeing Defence Australia recently delivered the second of 65 aircraft - an Orion AP-3C - to RAAF Base Edinburgh, South Australia.

## BDA demonstrates Multi-location Paint Capability for RAAF

Boeing Defence Australia (BDA) recently delivered the first two of 65 repainted aircraft to the Royal Australian Air Force (RAAF) from two separate facilities.

The RAAF accepted a repainted Orion AP-3C aircraft at RAAF Base Edinburgh in South Australia and a C-130H Hercules at RAAF Base Richmond in New South Wales less than three months after contract date. Under the AUD \$20 million agreement signed in March, BDA will paint 63 more RAAF fixed-wing aircraft over three years.

The AP-3C maritime surveillance aircraft spent 30 days in Air New Zealand's paint facility in Christchurch. BDA partner Air New Zealand Engineering Services stripped and painted the aircraft while it simultaneously underwent maintenance support services provided by Australian Aerospace Limited.

"This added a layer of complexity, as we had to ensure that the maintenance activities were scheduled in between stripping and painting the aircraft," said Dennis Mulligan, BDA Surface Finishing project manager. "Due to excellent collaboration among all parties, we were able to deliver the aircraft to the customer on time and within budget."

Meanwhile, the first of three RAAF C-130H transport aircraft was repainted within three weeks as BDA partnered with regional supplier Flying Colours Aviation in Townsville, Queensland.

Boeing's Australian Super Hornet Intermediate Level Maintenance (ILM) facility at Royal Australian Air Force (RAAF) Base Amberley in Queensland is now fully operational. The first-of-type ILM facility provides local engineering and supply chain support to meet the operational flying demands of the RAAF's 24 F/A-18F fighter jets. A total of nine sustainment workshops have been completed to date.

"This milestone marks an important element in the successful transition of Australia's Super Hornet acquisition program to a sustainment system that is delivering timely, localised technical support to the RAAF's No. 82 Wing," said Kim Gillis, managing director, Boeing Defence Australia (BDA). "Boeing has worked alongside the Tactical Fighter System Program Office (TFSPPO) to rapidly establish critical air combat support capabilities, and we are now focused on maturing our capabilities to further enhance aircraft availability and efficiency."

"The achievement of this milestone is testament to the effective partnership between Defence Materiel Organisation (DMO) and Boeing which has seen the Super Hornet and the ILM facility delivered on time and on budget," said Air Commodore Axel Augustin, Director

General Aerospace Combat Systems, DMO.

The ILM facility supports the Super Hornet's external fuel tank/aerial refuelling pod, avionics, life-support and alternate-mission equipment, structures, wheels and tyres, and hydraulics, as well as aircraft washing. Boeing also supports the aircraft through its integrated sustainment capabilities at RAAF Base Amberley, including composite repairs, a paint shop, and a non-destructive testing workshop.

"The Australian F/A-18 sustainment system, managed in partnership with Boeing and the TFSPPO, combines local industry expertise with U.S. capabilities based in St. Louis," said Glen Ferguson, Aerospace Support program manager for BDA. "The system also integrates the U.S. Navy's established support networks to sustain mission readiness and reduce support costs for the RAAF's Super Hornet fleet."

Australia became the first international Super Hornet customer in 2007. Since the RAAF aircraft first entered service, Boeing has provided pre- and post-deployment support during several international air combat exercises, most recently Exercise Cope North in Guam.



As part of the aircraft sustainment, Boeing employees wash Super Hornets for the RAAF.



Boeing Australia employees (left) Mark Asplund, Jane Ashton, Caroline Bell and Robyn Donaldson stepping out by Sydney Harbour.

### Boeing on the Move takes off Down Under

Boeing employees across Australia joined their colleagues from around the globe in Boeing's annual wellbeing challenge Boeing on the Move.

For employees based at the Boeing Australia office located just a few blocks from the harbour, Boeing on the Move is providing added motivation.

Receptionist Jane Ashton is passionate about maintaining an active lifestyle away from the office, and says Boeing on the Move is a great way to create a sense of fun and teamwork about wellbeing in the workplace.

"We're all wearing the pedometers and checking in with each other and providing encouragement," Jane said. "It's a great way to start a conversation about being more active as well as being an opportunity to try new activities, have some fun and start building a healthier lifestyle."

Around 530 employees are participating in Boeing on the Move across eight Australian sites. Together, they registered more than 207 million steps in the six weeks of the wellbeing challenge.

That's equivalent to walking from Sydney, New South Wales to Townsville, Queensland.

## GTC and Boeing Australia Team for Export Control Successes

Each year, Boeing Australia generates more than \$400 million in export revenue through the production of components for various commercial and military aircraft, and through software products and defense-related equipment and services. And now the company is playing an important role in shaping the implementation of a defense trade treaty designed to improve exports between Australia and the United States.

Ian Thomas, president of Boeing Australia & South Pacific; Stephanie Reuer, Policy and Licensing Administration director for Boeing Global Trade Controls International; and Mark Asplund, Boeing regional counsel for Australia and Southeast Asia; recently addressed the Australian Senate Standing Committee on Foreign Affairs, Defence and Trade, which is tasked with developing the legislation needed to implement the U.S.-Australia Defense Trade Treaty in Australia.

"Boeing has a long and successful history of exporting high value, high technology goods between Australia and the United States -- which add value to the company at a global level and which enhance our operations in Australia," Thomas said. "Boeing's testimony to the Senate Committee helps underscore the strength of the relationship between Boeing and Australia and demonstrates the degree to which Boeing is regarded as an integral part of the fabric of the Australian aerospace and defense industry. It also enables us to help shape this important defense trade treaty to ensure that cooperation between the two nations is maximised."

Treaties with both Australia and the United Kingdom are aimed at streamlining defense business to increase cooperation and interoperability among armed forces. Both treaties were approved by the U.S. Congress in 2010, three years after they were signed by leaders of those countries.

## Boeing Awards P-8 Supplier Contracts to Australian Companies

Boeing has awarded contracts totaling nearly US\$1.85 million to Australian companies Lovitt Technologies Australia and Ferra Engineering to manufacture parts and assemblies for the P-8A Poseidon maritime reconnaissance aircraft.

"Boeing continues to capture opportunities for value and growth through partnering with Australian suppliers," said Ian Thomas, president of Boeing Australia & South Pacific. "Over the past four years, we have awarded more than US\$230 million in contracts for Australian industry."

Lovitt Technologies Australia, based in Melbourne, and Ferra Engineering, based in Brisbane, were identified by Boeing's Office of Australian Industry Capability (OAIC), part of the Defence Materiel

Organisation's Global Supply Chain Program. Both companies have a number of existing contracts with Boeing.

"We're pleased that our engagement with the OAIC has allowed us to gain traction into several Boeing defence programs, and P-8 is the latest one of these," said Marcus Ramsay, managing director for Lovitt Technologies. "This work package will give us the opportunity to perform and increase our work statement on this program."

Lovitt Technologies will manufacture mission systems parts and assembly fabrications for the P-8 aircraft.

Ferra Engineering will supply internal and external airframe parts and assemblies to support various P-8 flight and mission systems.

**Volunteering is alive and well in Australia**

Boeing's 2012 Global Day of Service (GDS) brought together Boeing Defence Australia (BDA) employees from Williamstown, Canberra, Oakey, Amberley, and Brisbane for a common purpose - to drive positive change in the communities the company operates in.

Across Australia over 150 Boeing employees donated their weekend to help out their local community.

Volunteering activities ranged from landscaping the grounds of the local hospice in Amberley, through to painting the local SIDS and KIDS centre in Newcastle, and hosting a successful barbeque (BBQ) to raise funds for the Salvation Army in Canberra.

"I consider it an honour and a privilege to partner with local organisations that give so much to the communities where we live and work," said James Baker, BDA communications director. "We are always keen to help where we can and where we know it is going to help the community. That's why Boeing staff around the world are getting involved in GDS."

Working towards the centenary of the founding of Boeing in 2016, Boeing is endeavoring to have every site around the world participating in GDS activities.

# Boeing Australia participated in Global Day of Service 2012



Canberra employees raised money for the Salvation Army by hosting a BBQ.



Amberley employees held a fun run, a BBQ and landscaped a local hospice's grounds.



Williamstown employees painted and landscaped at the local SIDS and KIDS centre.



Oakey employees assisted a nursing home with landscaping and gardening activities.



**Velocity**

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Brisbane employees worked with Connected Inc – sorting, packing, cleaning donations for families in need.