



News from the Boeing world



July 2009



Boeing Australia & South Pacific



## Three months early, the first Super Hornet adds sting to Australian air force

Fifty years ago this month, Qantas became the first airline outside the US to operate Boeing jets. The Qantas Boeing 707 (pictured above in Seattle before delivery) operated the first commercial jet service from Sydney to San Francisco via Nadi and Honolulu.

Swinburne University of Technology and Boeing have teamed up to form the Australian Advanced Manufacturing Research Centre (AusAMRC) in Melbourne. The centre will focus on new aerospace manufacturing technologies in partnership with local manufacturers wanting to join the aerospace industry supply chain. The AusAMRC will initially focus on high speed machining, advanced tooling and incremental sheet forming, building on Boeing's experience with a successful research centre at the University of Sheffield, England.

It is over five years since Alteon Training Australia and Virgin Blue established their joint training centre in Brisbane. The facility houses Boeing 717, Boeing 737, Airbus A320 and Embraer 190 simulators providing pilot training and aircraft maintenance training capabilities. Alteon is also assisting with training V Australia 777-300ER pilots at a Sydney facility.



Australia's new fighter jet, the F/A-18F Block II Super Hornet made its first flight on July 21 taking off from Lambert International Airport in St Louis. The first of 24 advanced fighter aircraft will be handed over to the Royal Australian Air Force three months ahead of schedule.

The new jet is a multi-role aircraft, able to perform virtually every mission in the tactical spectrum, including air superiority, day/night strike with precision-guided weapons, fighter escort, close air support, suppression of enemy air defences, maritime strike, reconnaissance, forward air control and tanker missions.

According to Group Captain Steve Robertson, Head Air Combat Transition Office, RAAF there is a lot of excitement among the Air Combat Group about the aircraft's arrival. "The RAAF Super Hornet will bring a new generation of air power to Australia. Its advanced, networked weapons system will deliver enhanced air combat capability across the spectrum of air-to-air, strategic land attack and maritime strike, which is so important for Australia," he said.

While Australia is the first international customer for the Super Hornet, Boeing has delivered more than 395 F/A-18E/Fs to the U.S. Navy. Every Super Hornet produced has been delivered on or ahead of schedule.

The remaining Super Hornets, each equipped with the Raytheon-built APG-79 Active Electronically Scanned Array (AESA) radar, will be delivered to the RAAF throughout 2010 and 2011.



*Above: Air New Zealand has fitted its Boeing 767-300ER aircraft with performance enhancing blended winglets which are estimated to reduce fuel consumption by about six million litres a year and carbon emissions by 16,000 tonnes*

### Study shows biofuels perform effectively as jet fuel

Boeing and a team from across the aviation industry have released a study that shows that sustainable biofuels perform as well or better than typical commercial Jet A fuel.

The fuels were analysed in a series of laboratory, ground and flight tests, including several commercial airplane engine types using up to 50 percent sustainable biofuel blended with Jet A fuel.

Boeing, Air New Zealand, Rolls-Royce and UOP, a Honeywell company, conducted the region's first sustainable biofuels test flight.

"These are very gratifying results," said Bill Glover, managing director of Environmental Strategy for Boeing Commercial Airplanes. "Everyone on the team - and across the industry - is working hard to make sustainable biofuels a real solution for reducing the carbon footprint of aviation, and these results move us closer to that goal."

The report can be found at:  
[http://www.boeing.com/commercial/environment/pdf/PAS\\_biofuel\\_Exec\\_Summary.pdf](http://www.boeing.com/commercial/environment/pdf/PAS_biofuel_Exec_Summary.pdf)

## Brisbane chosen as regional HQ for leading UAS company Insitu Pacific

Rapidly growing provider of unmanned aircraft systems (UAS), Insitu Inc., had the official opening of its first international office outside the United States when it opened the doors of its new Brisbane operation Insitu Pacific recently.

The company has been working with the Australian Defence Force for some time, and has already commenced payload development and modification activities based on more than 20,000 ScanEagle® flight hours.

The new Brisbane office will act as a regional headquarters for the Asia Pacific region, undertaking UAS Intelligence, Surveillance, and Reconnaissance (ISR) services; direct sales; training services; and payload modification and production.

Insitu's Unmanned Aircraft Systems (UAS) include the new Integrator™ and the military ScanEagle™, developed in partnership with Boeing. Insitu UAS are comprised of light-weight aircraft

equipped with daylight and infrared cameras; a pneumatic catapult launcher; and a no-nets SkyHook™ vertical recovery system. Insitu systems do not require a runway and therefore are a flexible solution for both land and ship based operations.

Steve Sliwa, president and CEO, Insitu Inc. believes the new operation will help the company to expand the capabilities it currently provides to the Australian Defence Force.

"The establishment of our new operation is a testament of the commitment to Australia and the Asia Pacific region. It also provides a unique opportunity to employ the best local talent as we continue to grow," he said.

Andrew Duggan, managing director of Insitu Pacific, added, "We believe there are great opportunities for future growth as the global UAS market rapidly expands over the next decade, particularly in the Australian and the Asia Pacific region."



## Boeing Defence Australia clocks up 50,000 flight hours supporting Bell 206B-1 Kiowa



### P-8A Poseidon passes latest test

Successful test flights have been completed on Boeing's multi-mission platform, the P-8A Poseidon in the past few months. The P-8A Poseidon is a long-range anti-submarine warfare, anti-surface warfare, intelligence, surveillance and reconnaissance aircraft. The US Navy plans to purchase 117 P-8As to replace its fleet of P-3C aircraft.

A derivative of the Next-Generation 737-800, the P-8A is built by a Boeing-led industry team that includes CFM International, Northrop Grumman, Raytheon, Spirit AeroSystems and GE Aviation. The team is currently assembling and testing the first five P-8As.

The integrated US Navy/Boeing team will begin formal flight testing of P-8A during the third quarter of this year. Before that, the aircraft will be painted, additional flight test instrumentation installed and a series of ground tests conducted.

The Australian Department of Defence has announced its intent to acquire a manned Maritime Patrol and Response Aircraft by signing an MOU with the US Navy to cooperatively develop upgrades to the P-8A Poseidon aircraft and support systems. Australia will collaborate in Spiral one, the first series of improvements planned through the life of the P-8A.

Boeing Defence Australia has successfully completed 50,000 hours of flying support for the Australian Defence Force fleet of Bell 206B-1 Kiowa Helicopters. That's the equivalent of flying continuously for over five years and eight months or travelling around the globe 230 times!

Under the Army Aviation Training and Training Support (AATTS) program based at Oakey, Queensland, Boeing Defence Australia provides the Australian Army with pilot and aircrew training, fleet maintenance and support services for the Bell 206B-1 Kiowa and the S-70A-9 Black Hawk helicopters.

According to AATTS program project manager Matthew Sibree, "Most civilian platforms average anywhere from 1,000 to 2,000 flight hours per year, however the Kiowa is a training workhorse and the team at Oakey ensure the program clocks up to 6,000 hours per year."

The customer can program up to 50 missions a day, with the Boeing Defence Australia maintenance team

responsible for the servicing of each aircraft before and after every mission.

"This program is unique because it involves both the operational maintenance as well as the deeper level maintenance," Sibree said.

For Lt-Col Scott Benbow, Commanding Officer of School of Army Aviation at the Army Aviation Training Centre, Oakey, "Boeing has provided excellent support within those 50,000 hours, and contributed greatly to the training outputs required of Army Aviation aircrew training.

"The army's relationship with Boeing is a fine example of how Industry and Defence, when well combined, can achieve very good results," he said.

Boeing Defence Australia will continue to work for the next three years on this platform until Air 9000 enters service.



### In the next 24 hours

- Three million passengers will board 42,300 flights on Boeing jetliners carrying them to nearly every country on earth
- The Boeing Store will sell more than \$2 million over the Internet at [boeing.com](http://boeing.com), putting it in the top five of all web commerce sites
- 6,000 Boeing military aircraft will be on guard with the defence forces of 23 countries and with every branch of the U.S. military
- Boeing technicians and computer programmers will support the 1.5 million lines of flight software code that will eventually run on 44 computers aboard the International Space Station
- More than 340 satellites put into orbit by Boeing launch vehicles will pass overhead

## Students get 'green' with Boeing grant

Environmentally sustainable initiatives are being rolled out by hundreds of students in Brisbane, Queensland, boosted by a \$60,000 grant from Boeing Australia.

The Global Corporate Citizenship money has sponsored the 'EarthWorks' partnership between respected Australian environmental organisation Greening Australia and the Gateway Learning Community (GLC), which is comprised of seven local schools that collaborate to enhance learning opportunities.

EarthWorks is a year-long project aimed at empowering GLC students to build a better world by improving the habitat of their respective school grounds.

With Greening Australia's help, students will consult environmental experts from different disciplines, including permaculture, animal habitats, vegetation management and bush regeneration, before planning and implementing a project based on their school's needs.

Environmental preservation is a key focus area for Boeing's GCC initiatives. By partnering with non-profit organisations and other key community stakeholders, Boeing promotes environmentally-friendly initiatives to tackle the challenges facing our eco-system.

For the Boeing Australia team, encouraging people to make a difference to the planet from a young age is an extremely beneficial activity.

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*Velocity*

Editor: Ken Morton  
Content: Gail D'Arcy  
Emma Hodsdon  
Sarah Wills

Photos: Boeing

E-mail: [emma.hodsdon@boeing.com](mailto:emma.hodsdon@boeing.com)

Phone: +612-9086 3300

