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I • INDUSTRY NEWS

BELL HELICOPTER

www.bellhelicopter.com

Delivery of the 1,000th Bell 407

On 15 June, Bell Helicopter delivered its 1,000th Bell 407 to the Japanese company Shin-Nihon Helicopter. It will be used for the inspection of power lines, transportation of construction materials, and survey missions. Production of the 407 began in 1996.

BOMBARDIER

www.bombardier.ca

Appointment

Mr. Gary Martin has joined the Bombardier Customer Services management team as vice-president, Sales, Marketing and Service Programs. He and his team will be responsible for all aftermarket sales, marketing and communications activities for Bombardier's commercial and business aircraft programs. He will also lead the development of new and improved cost per hour service programs, in addition to other innovative aftermarket service offerings.

Order for four Global Express XRS aircraft

Bombardier Aéronautique has received firm orders for four Global Express XRS business jets from undisclosed customers based in Russia. The total value of these orders, based on the 2010 list price for typically-equipped aircraft, is US\$213 million.

Firm order for six business jets

Switzerland-based VistaJet has placed a firm order for four Global Express XRS and two Challenger 605 business jets. The total value of these orders, based on the 2010 list price for typically-equipped aircraft, is approximately US\$277 million.

Sale of two Global 5000s

Qatar Airways has placed firm orders for two Global 5000 business jets, with a contract value of around US\$90 million. Deliveries are scheduled to take place in the fall of 2010 and August 2011. The aircraft will be based in Doha, the capital of Qatar.

AVWest orders four Global Express XRS

Australian company AVWest has placed a firm order for four Global Express XRS ultra long-range business jets, two of which will be fitted with the new Global Vision flight deck. The total value of these orders, based on the 2010 list price for typically-equipped aircraft, is approximately US\$213 million. AVWest is a privately-owned aviation services company based at Perth Airport (Western Australia). It provides aircraft charter services, and also owns and operates Perth Jet Centre, which provides 24 hour ground handling services for all business jet types. Its current fleet of fixed and rotary wing aircraft includes a large cabin Challenger 604 and a Global Express XRS.

Learjet 85 simulator

Bombardier Aéronautique has purchased a Learjet 85 full-flight simulator (FFS) from CAE, an important step in the Learjet 85 program. It will be installed in Bombardier's Montréal training centre and will be used to support testing and certification activities, prior to entry in service of the Lear 85, which is scheduled for 2013. As of the first quarter of 2013, it will be available for use in customer training. Bombardier is the only business and commercial aircraft Original Equipment Manufacturer (OEM) that offers both pilot and maintenance training to its customers.

CAE

www.cae.com

New executive vice-president

CAE has announced the appointment of Mr. Keyvan Fard to the position of executive vice-president, Business Development and OEM Alliances. He will also become president of CAE helicopter Solutions and a member of the Board of Directors. He will report directly to Marc Parent, president and chief executive officer. This new position has been created to expand CAE's long term commercial relationships with civil and military OEMs. Mr. Fard worked at Pratt & Whitney Canada for 30 years, notably as senior vice-president, Sales and Marketing.

Simulator contracts worth \$55 million

CAE has signed new contracts valued at \$55 million with Bombardier, ATR, Vietnam Airlines and an American airline. They include the sale of four Full-Flight Simulators (FFS), bringing to six the number of FFS orders that CAE has now received in its 2011 fiscal year. The FFS sales include a CAE 7000 Series FFS to Bombardier Aéronautique for the new Learjet 85 business jet and a prototype CAE 7000 Series FFS replicating the cockpit of both the ATR42-600 et ATR72-600. CAE will also supply ATR with its CAE Simfinity Maintenance/Flight Simulation Training Device (MFSTD) and a Simfinity desktop trainer. The prototype ATR42/72 600 FFS will be delivered to ATR's training centre in Toulouse, France, in 2011. Vietnam Airlines has ordered an Airbus A320 FFS and signed a contract with the CAE Global Academy for the training of 40 pilots. In 2011, the A320 FFS, together with a briefing/de-briefing station and a smoke generation system, will be delivered to a new training centre that Vietnam Airlines plans to construct at Ho Chi Minh City. An undisclosed American legacy airline has ordered a Boeing 737 simulator.

Agreement with Mitsubishi for MRJ training

CAE has signed an agreement with Mitsubishi Aircraft Corporation (MJET) to develop and supply a complete training solution for the new Mitsubishi MRJ regional jet. The agreement includes a ten-year exclusive training supply agreement and the establishment of two training centres, initially in Japan and the United States. CAE will develop two CAE 7000 Series MRJ FFS as well as CAE Simfinity integrated procedures trainer. CAE will also design curricula and courseware and will provide training to pilots, maintenance technicians, cabin crew, dispatchers and ground support personnel. These will be the two first MRJ FFS in the world..

CAE and ATR sign a master agreement

CAE has signed a master agreement with the aircraft manufacturer ATR for the supply of a family of products and support services to ATR operators. Under the terms of this agreement, ATR and CAE will collaborate in the delivery of training programs and simulation equipment in ATR, CAE and customer training centres worldwide.

Certification of the first CAE 3000 helicopter simulator

The first CAE 3000 Series helicopter mission simulator, representing the Eurocopter AS350 B2, and located in Phoenix, Arizona, has received Level 7 flight training device credits from the U.S. Federal Aviation Administration (FAA). The Phoenix location, which is close to the Sky Harbor international airport, is the fifth location worldwide at which CAE offers training to civil helicopter operators. Other locations include:

- Bangalore (India) – Bell 412 Level D FFS;
- Dubai (United Arab Emirates) – Bell 412 Level D FFS;
- Sesto Calende (Italy) – two Level D FFS (A109 and AW139);
- Morristown (New Jersey, United States) – two Level D FFS (AW139 and Sikorsky S76);
- CAE has also announced its intention to locate a Bell 412 Level D FFS in Mexico.

CAE's 3000 Series simulator is fitted with a CAE Tropos 6000 visual system with a direct projection dome screen, high definition commercial off-the-shelf projectors, fields of view of up to 220 degrees horizontally and 80 degrees vertically, including chin window coverage. It also has a three axis vibration generation system.

Joint venture acquisition of the China Southern Airlines pilot training school in Australia

CAE has acquired an equity interest in the China Southern West Australian Flying College (CSWAFC) located in Perth, Australia and will manage this school as part of the CAE Global Training Academy. The ownership share of CSWAFC will be 53% by China Southern Airlines and 47% by CAE. Founded in 1993, this school specializes in ab initio training of pilots to become multi-engine instrument rated first officers in the airline. The graduates then obtain aircraft type ratings at the Zhuhai Flight Training Centre, a joint venture between China Southern Airlines and CAE Zhuhai, located in Guangdong province, China.

ESTERLINE CMC ÉLECTRONIQUE

www.cmcelectronics.ca

Lufthansa selects GPS receiver for its A340 and B747 fleets

Esterline CMC Électronique (CMC) has announced that its IntegriFlight CMA-5024 Global Positioning System (GPS) landing system sensor has been selected by Lufthansa Airlines as a component of its upgrade of eleven A340 and six B747 aircraft. The replacement of the first generation GPS sensors will allow Lufthansa to operate the aircraft in compliance with the new Automatic Dependent Surveillance – Broadcast (ADS-B) airspace requirements, similar to those already in place in large areas of Northern Canada. The CMA-5024 is CMC's most advanced air transport category GPS receiver. Its reliability is based on a history of more than 20,000 CMC GPS receivers that have been in operational service for 15 years.

CMC's Electronic Flight Bag (EFB) selected by Boeing for the B747-8

Boeing has selected Esterline CMC Électronique's new PilotView CMA-1410 Electronic Flight Bag (EFB) for its On-Board Network access Terminal (ONAT) for the B747-8 aircraft. This 10.4 in. EFB will allow maintenance personnel and flight crew to access aircraft systems from a central location and to communicate data on an as-required basis. Boeing had already selected the PilotView CMA-1410 pour the B737NG and BBJ families as a Class 2 EFB that is available for both new production aircraft and upgrades.

CMC involved in green aircraft technologies

Esterline CMC Électronique (CMC) is a founding member of the Green Aviation Research & Development Network (GARDN), a Canadian Federal Government Business-Led Network Centre of Excellence program. CMC is currently working with Canadian universities to create programs that improve its knowledge and capabilities, and reduce the environmental impact of all aircraft that are equipped with CMC's Flight Management Systems (FMS). For example, in Optimum Profile Descents the FMS guides the aircraft while reducing noise, emissions and fuel consumption in a fully coupled vertical navigation VNAV mode. A second initiative addresses efficient cruise. The FMS uses forecast winds and temperatures to calculate the optimum cruise speed, altitude and flight path so as to reduce carbon dioxide and oxides of nitrogen emissions, as well as reducing fuel burn for the operator.

Enhanced SwiftBroadband antenna system selected by Air France for the B777-300

Air France has selected CMC's SwiftBroadband multi-channel high gain satellite communications (Satcom) antenna system to equip its future B777-300 aircraft. The new generation CMA-2102SB antenna supports Inmarsat Safety Services, Aero-H+, Swift64 and SwiftBroadband satellite communications services. CMC Électronique is the preferred provider of Satcom antennas for the air transport and VIP airliner markets and has won 75% of the Aero-H/H+ airliner installations.

Technical support contract for Finnish Air Force Hawks

Esterline CMC Électronique (CMC) has signed a contract with Finnish company Patria Aviation Oy for in-service support for the Finnish Air Force fleet of BAE Systems Hawk advanced jet trainers. This contact includes both repair services and a spare parts pool for the Hawk Mk51 fleet. The contract will ultimately extend to the complete 26-aircraft fleet of upgraded Hawk Mk51 and Hawk Mk66 aircraft when the last upgraded Mk66s enter service in 2013.

HÉROUX-DEVTEK

www.herouxdevtek.com

Future landing gear project

Héroux-Devtek has joined the leading Québec aerospace industry players by leading a technology demonstration project within the "green aircraft" program. The company's mandate during this four-year program will be to make landing gears less polluting, lighter and quieter.

L-3 MAS

www.L-3com.com

CF-18: a contract worth almost half a billion dollars

The Canadian government has selected L-3 MAS for the maintenance of its CF-18 combat aircraft fleet. This new contract, valued at \$468 million, is for the period 2010 to 2017, with an option for three additional years. L-3 MAS thus assumes responsibility for maintenance of the Canadian combat aircraft fleet until the end of its useful life.

LIEBHERR CANADA

www.liebherr.ca

\$3,800,000 project in Laval

At the Farnborough International Airshow, the Canadian and Québec governments announced their intentions to make financial contributions to Liebherr-Aerospace with a total value of \$1,400,000. They will support Liebherr's creation of a landing gear final assembly and logistics support centre at its Laval facility. The total investment to realize this project is \$3,800,000 and it will result in the creation of 35 high value jobs. The Québec government contribution of \$750,000 will be made through the Programme de soutien aux projets économiques (PSPE) (Economic projects support program). The Canadian government, in turn, has announced its intention to make a reimbursable contribution of \$650,000 under the terms of the Croissance des entreprises et des régions (Business and Regional Growth program) of Canada Economic Development. Liebherr-Aerospace develops and manufactures air management systems, flight controls, actuation systems and landing gears for business and commercial aircraft, helicopters and military platforms.

MARINVENT CORPORATION

www.marinvent.com

Participation in the FAA's NextGen technology demonstrations

Advanced Aerospace Solutions LLC, a company that Marinvent jointly founded, will support General Dynamics in its activities on the FAA's NextGen modernization program (SE2020). This program will introduce new technologies and procedures to modernize the U.S. National Airspace System (NAS). The General Dynamics team has been awarded a maximum amount of \$1.2 billion over ten years, based on all options being exercised. The total project allocation is \$7 billion. Advanced Aerospace Solutions LLC will participate in concept development testing, flight demonstrations and the evaluation of airborne and ground-based systems using specially equipped airborne laboratory aircraft.

MARQUEZ

www.marquez.ca

Appointment

On 25 August, Marquez appointed Mr. Steve Vuglac to the position of director of Environmental Control Systems Design. Marquez Transtech designs and manufactures specialized composite and thermoplastic components such as Personal Service Unit (PSU) ducting for the Boeing 787 Dreamliner, the enhanced Bombardier Global Express cockpit, and components for CAE's simulators. Marquez Transtech is also a strategic partner in the supply of parts for Volvo coaches that are manufactured in North America.

NORDUYN

www.noorduyn.ca

Crystal Cabin Awards

Quantum, the family of lightweight trolleys developed by Norduyn, won the honours at the Crystal Cabin Awards 2010, made during the annual Aircraft Interiors Expo in Hamburg, Germany. A jury of 22 aviation industry professionals selected the winners from 64 projects submitted from 13 countries. Quantum was selected as the most innovative product in the "Environment, Safety and Security" category. Norduyn's trolley, based on a new lightweight composites technology, was recognized for its reduced weight compared with existing aluminium products. An airline with a 40-aircraft wide body fleet will save between \$2 million and \$5 million in fuel cost reductions annually, as well as reducing its CO2 emissions by around 290,000 tonnes. The judges also favoured this product because of its thermal characteristics, that result in a significant saving in dry ice. Other reasons that they selected Quantum included reduced maintenance costs, and the potential for more efficient inventory management based on the integration of Radio-Frequency Identification (RFID) intelligent systems.

PRATT & WHITNEY CANADA

www.pwc.ca

The PurePower engine family

Pratt & Whitney has reached the milestone of 100 hours of testing of the core hot section of the PurePower engine, resulting in validation of the predicted performance of this new generation of commercial engines and demonstrating excellent start-up and operability characteristics. The PurePower engine family is designed to power the next generation of passenger aircraft, in particular narrow-body aircraft such as the Bombardier Aéronautique C-Series, regional jets and large business aircraft.

Recognized for his performance

Mr. John Di Bert, vice-president Finance at Pratt & Whitney Canada, has been named as one of the 40 high performance Canadians under 40 years old for 2009. Each year this reward program recognizes the 40 highest performing Canadians under 40 years old working in the private, public and not-for-profit sectors. An independent advisory board comprising 25 Canadian business leaders selected Mr. Di Bert and his fellow awardees from more than 1,200 candidates. The selection was based on five primary criteria: vision and leadership, innovation and achievements, impact, community engagement and contributions, and growth strategies.

PRODUITS INTÉGRÉS AVIOR

www.avior.ca

Northrop Grumman Preferred Supplier Platinum Source award for 2009

Northrop Grumman Corporation recently honoured 73 suppliers from the United States, Canada and Switzerland in its annual awards program. These awards recognize companies that distinguish themselves by the quality of their products, on-time delivery, customer satisfaction and solid lean processes. Produits intégrés Avior received the "Preferred Supplier Platinum Source Award" for continued performance excellence.



II • TECHNOLOGY

The U.S. FAA's "CLEEN" program

www.faa.gov/news

Within the framework of the huge NextGen (\$7 billion) program that extends to 2018, the FAA and industry (Boeing, General Electric, Honeywell, Pratt & Whitney and Rolls-Royce) have contributed a total of \$250 million (\$125 million from the FAA and \$125 million shared equally by the industry participants) with the goal of improving air traffic flows and the overall efficiency of the United States air

transportation system. Between now and 2015, this Continuous Lower Energy, Emissions and Noise (CLEEN) program will, develop and demonstrate technologies that reduce the environmental footprint of aircraft operations and diversify energy supplies. The FAA will also have access to NASA services to support management of these programs.



III • INDUSTRY DEVELOPMENT

Exporting to Europe and the European REACH regulations

www.college-em.qc.ca

By 30 November of this year, all companies that have operations in Europe must have registered compounds and chemicals used in their products if they contain more than 0.1% by weight of carcinogens, mutagens or toxic to reproduction, persistent, bioaccumulative and toxic or very persistent and very bioaccumulative. After this date, the Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) regulation will prohibit importation of these products into Europe (New Factory No 3195). You can obtain more detailed information on this subject by consulting the "navigator" page of the Website of the European Chemicals Agency (ECHA): www.echa.europa.eu.

Surface treatment trends

Chromic anodization is increasingly being replaced by sulfo-boric anodization in the United States and by sulfo-tartaric anodization in Europe. High Velocity Oxy-Fuel (HVOF) thermal sprays are progressively replacing hard chrome plating for landing gears. Cadmium plating is being replaced by zinc-nickel electrolytic plating.

QUALITY

75 AS 9100 certified companies

Abipa – Aérospatiale Hemmingford – Aérosphère – Air Data – Air Terre Équipement – Alta Précision – Amphenol Air LB North America – APN – Arpex – Automatech industrielle – Avior Produits intégrés – Avitec – Bell Helicopter – Bombardier Aéronautique – Bombardier Centre de tubes de Mirabel – CPS Industries – Composites Atlantic – DCM Aéronautique – Deburex – Delastek – DMG – Electro-Kut – Élimétal – Emergia Aerospace – Esterline CMC Électronique – Flexibülb – Générale électrique du Canada – Gentner – Goodrich – Groupe Meloche – Harrington – Héroux-Devtek – Honeywell – JSR2 – L-3 Communications MAS – Lavod – Leesta – Lisi Aerospace Canada – Marquez Transtech – MDA Space – Mecachrome Canada – Mecaer Américaine – Mesotec – Messier-Dowty – Metcor – Meyer Canada – Moncar Précision – Moulages aéronautiques Alcoa – MSB Design – Nétur – Norduyn – Optimus – Patenaude Industries – Placeteco – Pratt & Whitney Canada – Quéloz – Raymor – RTI-Claro – Sargent Aérospatiale Canada – Sermatech Canada – Shellcast –

Sido – Sintors Canada – Sonaca Montréal – Soudure Aérospatiale – Techniméca – Techniprodec – TECO Précision – Thales Canada – Thermetco – TNM Anodisation et Peinture – Trident Industries – Vac-Aéro – Verdun Anodisation – Vestshell

2 AS 9110 certified companies

Pôle Air Aviation – Turbomeca Canada

11 ISO 9001:2008 certified companies

Air Data – Almaho – C.E.L. – Diacarb – Essential Turbines – Flexibülb – Lavod – Mannarino Systèmes & Logiciels – Norduyn – Pôle Air Aviation – Précision J.L.M. – Turbomeca Canada

95 ISO 9001:2000 (2000 version) certified companies – Expires in 2010

ABB Bomem – Abipa – Aérospatiale Hemmingford – Air Terre Équipement – Alphacasting – Alta Précision – Amphenol Air LB North America – AP&C Advanced Powders & Coating – Apollo Micro-Ondes – ATD Design Services – Atelier d'usage F.J. – Automatech industrielle – Avena Technologies – Avitec – Bombardier Aéronautique – CAE (génie logiciel) – CanRep – Circuits CMR – Composites Atlantic – CPS Industries – CS Communication & Systèmes Canada – Deburex – Delastek – Deloro Stellite – DMG – Electro-Kut – Élimétal – Esterline CMC Électronique – Finecast – Fiso – Flexibülb – Gentner – GFI – GGI International – Goodrich – Groupe Meloche – Gurit – Harbour Industries – Héroux-Devtek – ICT – JSR2 – Leesta – Liebherr Aerospace Canada – Lisi Canada Aerospace – Lockheed Martin – LSI Luminescent – L-3 Communications MAS – Marquez Transtech – MDS Aero Support – Mecachrome Canada – Mecaer – Mesotec – Metcor – Minituc – Mitec – Moulages aéronautiques Alcoa – Moules PCM – MRT Robotics – MSB Design – Optimus – Outils Arpex – Patenaude Industries – Pega Précision – Placeteco – Plasmatec – Précision JLM – Produits Belt-Tech – Produits intégrés Avior – Quéloz – Rasakti – Rheinmetall Canada – Sermati Canada – Shellcast – Sico – Sido – Sintors Canada – Soudure Aérospatiale – SPG Data 3D – Techniprodec – Techspace Aero Canada – TECO Précision – Terminal & Câble TC – Thermetco – TMH Canada – TNM Anodisation et Peinture – TQF Technologies – Tribospec – Trident Industries – Ultraspec – Verdun Anodisation – Vestshell – Werner Metals

26 NADCAP certified companies

Abipa – Aérosphère – Bombardier Centre de tubes de Mirabel – Composites Atlantic – CP Tech – Genitest – Groupe Meloche – Héroux-Devtek – L-3 Communications MAS – Lisi Aerospace – Lego – Messier-Dowty – Metcor – Meyer – Moulages aéronautiques Alcoa – Optimus – RTI-Claro – Shellcast – Sonaca Montréal – Soudure Aérospatiale – Tecnickrome – TNM Anodisation et Peinture – Ultraspec – Vac-Aéro – Verdun Anodisation

If your company has received ISO, AS or NADCAP certification, but does not appear on this list, please let us know.



IV • MANPOWER AND TRAINING

ÉCOLE NATIONALE D'AÉROTECHNIQUE (ÉNA)

www.college-em.qc.ca

Advanced aeronautics courses

Since the fall of 2010, ÉNA's continuing education department has offered evening part-time courses. They are designed for people who want to improve their capabilities, those who wish to learn more about specific technical subjects and people preparing for Transport Canada exams for an Aircraft Maintenance Engineer (AME) licence. Courses available in January 2011 are:

- Aeronautics regulations
- Introduction to aeronautics
- Reading aircraft drawings
- Inspection and maintenance of avionics systems

Other courses can also be offered if the number of people who wish to register justifies it. Workshops in 2D-3D (CATIA, Autocad) modelling can also be provided. To learn about dates, costs and other details, please call 450-678-3561, local 4543, or visit the Centre de services aux entreprises et de formation continue page of the school's Website www.college-em.qc.ca

V – SHOWS, EXHIBITIONS, MISSIONS AND SYMPOSIA

RENDEZ-VOUS DE L'AUTOMATISATION

www.criq.qc.ca/automatisation

The Centre de recherche industrielle du Québec (CRIQ), and its organising committee, are organising the 4th edition of Rendez-vous de l'automatisation, which will take place on October 20 and 21 at the Centre Renaissance in Anjou. The aerospace industry will be well represented, including by Ms. Amal Abhir, of GE Aviation, who will be a guest speaker at lunchtime on 21 October. AV&R and SPG Data will both also have exhibits at the event.

FARNBOROUGH INTERNATIONAL AIRSHOW 2010

www.farnborough.com

Farnborough International Airshow 2010

The Farnborough International Airshow took place between July 19 and 28, 2010. This bi-annual event was another opportunity for the Québec government to demonstrate its support to the Québec aerospace industry, particularly in the areas of support to both SME development and innovation. A delegation of 15 Québec SMEs, together with the prime contractors that regularly attend, participated in this mission with the objective of establishing new partnerships with international companies. Other participants with these companies and the Ministry of Economic Development, Innovation and Exportation (MDEIE), included Investissement Québec, the Société générale de financement (SGF), Montréal International, the Association québécoise de l'aérospatiale (AQA) (Québec Aerospace Association) and Aéro Montréal.



CONTACTING US

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<http://www.mdeie.gouv.qc.ca>