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I • INDUSTRY NEWS

BOMBARDIER

www.bombardier.ca

Delivery of the 300th Challenger 300

During a delivery ceremony at Bombardier Aéronautique's Dorval headquarters, the company delivered the 300th Challenger 300 business jet to an undisclosed North American customer. The Challenger 300 is the first true super-mid-sized business jet, with transcontinental range at high speed cruises with up to eight passengers. It can fly non-stop between Los Angeles and New York with the maximum payload. Its superior airfield performance means that it can take-off and land from runways of 1,466 m (4,810 ft) in length.

Sale of eight business jets

Bombardier Aéronautique has received firm orders for two Challenger and six Global business jets from an undisclosed customer. This sale has a value of around US\$383 million based on the 2010 list price for typically equipped aircraft.

Order for up to 120 Global jets

Netjets has announced the largest business jet order in Bombardier Aéronautique's history. It includes 50 firm orders and 70 options for Global aircraft. The value of the firm orders is approximately US\$2.8 billion at list prices. The total value of this order will be more than US\$6.7 billion if all the options are exercised. The firm order includes 30 Global 5000 Vision and Global Express XRS Vision aircraft, with deliveries scheduled to begin in the fourth quarter of 2012. The remaining 20 firm orders are for Bombardier's recently launched Global 7000 and Global 8000 aircraft. Deliveries of these aircraft will begin in 2017.

First Challenger 300 to be based in China

Bombardier has delivered the first Challenger 300 to be based in China to Donghai Jet, a company located in Shenzhen, in the South of the country. It is the first of five Challenger 300s that were ordered by Donghai Jet on 13 November 2010.

First Challenger 605 to be operated in Mexico

On 18 February 2011, Bombardier delivered the first Challenger 605 to be operated in Mexico to an undisclosed customer. It will join the growing fleet of Bombardier business jets operating in Latin America. Challenger aircraft have a 48% share of the Mexican market and 55% in Latin America. Bombardier forecasts that 775 business jets will be delivered to Latin America in the next ten years.

244 deliveries in 2010-2011

Bombardier delivered 244 aircraft during the fiscal year ending 31 January 2011. This compares with 302 aircraft in the previous 2009-2010 fiscal year ending 31 January 2010. Bombardier received orders for 201 aircraft, excluding cancellations compared with 11 in the previous fiscal year. The fourth quarter was particularly strong for business jets, with 74 net orders.

The Saint-Laurent plant tools up

Bombardier has recently upgraded more than 9,000 m² (100,000 sq ft) in its Saint-Laurent plant for the production of major components for the new CSeries aircraft. The assembly process will include a fully automated moving line using the latest lean manufacturing principles.

Sale of four Bombardier 415s

Bombardier Aéronautique has announced the sale of four Bombardier 415 amphibious aircraft to an undisclosed customer. It is the second order from this customer, who previously ordered a single aircraft. Based on the current list price, the contract for the four aircraft has an estimated value of US\$162 million at list prices and includes training and initial spares provisioning. Deliveries will begin in the second quarter of 2011 and will be completed in the first quarter of 2013. Since the company delivered the first Bombardier 415 amphibian in 1994, it has delivered 75 Bombardier 415s and four Bombardier 415 MP variants to governments and firefighting organizations around the world. Sixty-four piston-engined CL-215 amphibians also remain in service.

CAE

www.cae.com

Contracts valued at \$50 million for four full-flight simulators and four Simfinity integrated procedures trainers

CAE has announced the sale of four Level D Full-Flight Simulators (FFS) and four CAE Simfinity trainers to airline customers in Asia and Europe. Lufthansa Flight Training (LFT), an independent subsidiary of Lufthansa Airlines, has ordered a CAE 5000 Series Airbus A320 FFS and three CAE Simfinity A320 Integrated Procedures Trainers (IPT); Xiamen Airlines, an airline based in the People's Republic of China has ordered two CAE 7000 Series Boeing 737NG FFS and a CAE Simfinity virtual maintenance trainer. An A320 FFS has also been sold to an undisclosed Asian airline and will be delivered in the second quarter of 2011.

Contracts valued at \$45 million for a training centre and simulators

China Southern Airlines and CAE have expanded their joint venture training centre in Zhuhai, China, with the addition of two Level D FFS ordered from CAE – a CAE 5000 Series for the Boeing 737NG and a CAE 3000 Series for the Sikorsky S-76C++. This is the first CAE 3000 Series civil helicopter full-flight and mission simulator delivered to Asia. With this contract, CAE sold 29 civil full-flight simulators in fiscal year 2011. CAE has also signed a multi-year agreement with Virgin America to develop and support a new pilot training centre close to the airline's facilities in San Francisco,

United States. Under this agreement, CAE will install a Level D Airbus A320 FFS in its possession. It will upgrade it to represent the latest Airbus configuration standard.

South American helicopter training joint venture

CAE and the largest helicopter operator in Brazil, Líder Aviação, have announced an agreement to create a joint venture company that will deliver advanced simulation-based helicopter pilot training beginning in early 2012. This new joint venture will purchase the first CAE 3000 Series Level D FFS representing the Sikorsky S-76C++ helicopter.

Rotorsim purchases an AW139 full-flight simulator

Rotorsim, a consortium owned in equal share by CAE and AgustaWestland, has announced its intention to expand with the purchase of a CAE 3000 Series full-flight simulator (FFS) representing the AW139 helicopter. This new FFS will be delivered in 2012 to Rotorsim's training centre in Sesto Calende, Italy, and CAE and AgustaWestland will jointly upgrade and certify for Level D certification.

New CAE Tropos 6000 image generator

CAE has announced the launch of its third generation Tropos 6000 image generator (IG). The new IG provides a more immersive environment and an improved pilot training experience based on leveraging the increased power available from the most recent NVIDIA processors. The launch applications for these new CAE 6000 Tropos will be the first two A350XWB FFS for Airbus and upgrades to its A300, A330/340 and A380 simulators. In addition, it will be used on upgrades to Air France's A320, convertible A330/340 and A340 simulators.

Modelling and simulation centre in Brunei

CAE has been awarded a contract from the Ministry of defence of Brunei to establish a state-of-the-art National Modelling and Simulation Centre (NMSC). It will be located at Anggerek Desa and used by the Royal Brunei Armed Forces and the Ministry of Defence to analyze force structures, evaluate and validate capabilities, develop doctrines and tactics, and support training exercises and mission rehearsals. CAE will design, develop and deliver a turnkey and fully integrated simulation and training centre including the facilities, simulation software, computer and network infrastructure, a tactical control centre, database development, system integration, synthetic environments, development of scenarios and in-service support services.

CAE's Global Academy to train EIAB and Omni Aviation pilots

CAE has signed contracts with two Flight Training Organizations (FTO) to support the flying training component of ab initio pilot training. This represents a renewal by CAE of a long-term contract with the European Institute of Aviation and Business (EIAB), located in Saarlouis, Germany, to train its self-sponsored ab initio trainees as part of its Bachelor's degree in aviation. CAE also signed a contract with Omni Aviation, a training centre located in Tires, Portugal, to train ab initio students under Visual Flight Rules (VFR). More than 30 students from the two FTOs will be trained each year at the CAE Global Academy Phoenix in Mesa, Arizona, United States.

COBALT AIRCRAFT

www.cobalt-aircraft.com

Setting up in Saguenay

The French company Cobalt Aircraft Industries has selected Saguenay as the location where it will complete the development of and certify its Cobalt Co50, a five-seat aircraft made from composite materials. The plan is that the certification process, which is scheduled to take two years, will be followed by the construction of an assembly facility in Saguenay.

ESTERLINE CMC ÉLECTRONIQUE

www.cmcelectronics.ca

Agreement with Star Navigation

Esterline CMC Électronique has signed an agreement with Star Navigation Systems Group Ltd of Ontario to establish a turnkey aircraft data monitoring and reporting solution for equipment manufacturers. It combines the capabilities of CMC's PilotView Electronic Flight Bag (EFB) and the software in Star's STAR-ISMS In-Flight Safety Monitoring System, and also includes applications and aircraft integration services. CMC will market the solution to equipment manufacturers and other customers in the air transport and business aircraft markets as one component of its cockpit systems offerings.

WAAS GPS landing systems certified on the B737 for operations in the Canadian North

Esterline CMC Électronique (CMC) has announced that its IntegriFlight Global Positioning System (GPS) landing system has been certified for GPS Localizer Performance with Vertical Guidance (LPV) approaches on a Boeing 737-300 operated by Canadian North Airlines. It is a stand-alone solution that provides similar capabilities to Instrument Landing Systems (ILS) and integrates seamlessly with existing navigation instruments. It comprises dual CMA-5024 Wide Area Augmentation System (WAAS) GPS receivers and dual CMA-5025 control panels, and provides a cost-effective way of retrofitting aircraft with LPV capability.

Logic-Air, based in Mirabel, was responsible for development and installation of the system and holds the Supplemental Type Certificate (STC) issued by Winnipeg company ACS-NAI, a Transport Canada-approved Design Approval Organization (DAO). ACS-NAI also contributed engineering and certification support services, including STC data and documentation. The CMA-5025 control panel was designed and produced by Air Data of Montréal, in partnership with CMC.

FDC COMPOSITES

www.fdccomposites.com

Major contract with aircraft manufacturer Cobalt Aircraft Industries

Further to its decision to locate its aircraft manufacturing operations in the town of Saguenay, Québec, the French aircraft manufacturer Cobalt Aircraft Industries has selected FDC Composites as the supplier of all the composite structural components for the Cobalt Co50 aircraft.

HÉROUX-DEVTEK

www.herouxdevtek.com

Contract from Bombardier

Héroux-Devtek Aérostructure has signed a seven-year agreement with Bombardier Aéronautique to manufacture structural detail components for all of Bombardier's commercial and business aircraft, including new models such as the CSeries and Learjet 85 business jet. Under the terms of the agreement, Héroux-Devtek will fabricate, assemble and deliver more than 300 structural detail components such as wing spars and ribs, fuselage frames and other complex structural components. Héroux-Devtek estimates the contract value to be more than C\$175 million.

"Ici on recycle" certification

Héroux-Devtek's Laval facility has received the "Ici on recycle" performance certification from Recyc-Québec. It is the third site in the Québec aerospace sector to receive this certification after Bombardier (Saint-Laurent) and GE (Bromont). Multiple initiatives contributed to achieving this certification with visible and economically favourable results. Examples include:

- a 50% reduction in natural gas consumption;
- a 50% reduction in consumption of water;
- the size of the garbage container reduced and that of the recycled materials container increased, resulting in their sizes being reversed.

MECACHROME CANADA

www.mecachrome.com

New engine pylon

Mecachrome Canada has been selected by Middle River Aircraft Systems to design, manufacture and assemble a new generation engine pylon.

NORDUYN

www.norduyn.com

Winner of top Alpha Award

Norduyn has announced that it was selected as “Company of the Year” by the Grand Jury at the Alpha Awards organized by the Saint-Laurent Chamber of Commerce in Montréal. In addition to winning this top award, Norduyn obtained a second distinction, being chosen as “Company of the Year” in the “Manufacturing” category. In the last 12 months Norduyn has increased its sales and research and development investments and created jobs at its Montréal site. The jury noted that products developed during the last two years generated more than 80% of the company’s sales. In 2010, Norduyn was also awarded the internationally recognized “Crystal Cabin” award in Hamburg, Germany for its cabin passenger service trolleys that were recognized as the lightest and most innovative in the world.

PÔLE AIR AVIATION

www.poleair.com

New capabilities

Pôle Air recently purchased a new test stand for pneumatic valves. The company thus has the capability to repair and overhaul all high pressure and high temperature pneumatic valves for a wide range of aircraft, including those manufactured by Airbus and Boeing as well as the Bombardier CRJ, Global Express, Challenger and Q400.

PRATT & WHITNEY CANADA

www.pwc.ca

Opening of the Mirabel Aerospace Centre

On 6 May, Pratt & Whitney Canada (P&WC) officially inaugurated its Mirabel Aerospace Centre at the Montréal-Mirabel airport. The Mirabel Aerospace Centre is an engine assembly and test facility that incorporates advanced manufacturing technologies and is now operational. P&WC will assemble and test PurePower® family engines for the Bombardier CSeries aircraft and the new generation PW800 engine family that will power the next generation of large business jets. The Mirabel Aerospace Centre covers an area of 300,000 sq ft and represents a \$360 million investment, including the flight test centre. Around 300 people will work at the site within five years.

ROLLS-ROYCE CANADA

www.rolls-royce.com

\$225 million investment

Rolls-Royce Canada has announced a five-year, \$225 million research and development program in its Energy business. The Rolls-Royce Energy business, located in Montréal, is the global

research and development and manufacturing centre for Trent and IRB211 industrial turbines that are used to generate electricity, and for oil and gas applications. This investment confirms the Montréal site’s leading role in the design of aero-derived industrial turbines.

II – INDUSTRY DEVELOPMENT

AÉRO MONTRÉAL

www.aeromontreal.ca

Collaboration agreements signed

During last November’s France-Québec Symposium on competitiveness clusters and centres of excellence, the aerospace component targeted three sub-themes:

- sustainable development;
- human capital development;
- autonomous and space systems.

The following collaborative agreements were signed:

- Composites under impact loads: Université Laval and Astrium Space Transportation
- Manufacture of complex composite components by injection for aerospace applications: École polytechnique de Montréal and Safran
- Management and pooling of human capital: École polytechnique de Montréal and Safran Group
- Cabin comfort and air quality: Bombardier and Liebherr Aerospace
- GNSS satellite positioning and multi-sensor navigation: École de technologie supérieure (Montréal) and ISAE Toulouse

QUALITY

79 AS 9100 certified companies

Abipa – Aérospatiale Hemmingford – Aérosphère – Air Data – Air/ Terre Équipement – Alphacasting – 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 – CAE – 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 – Héroux-Devtek – Honeywell – JSR2 Aerospace – L-3 Communications MAS – Lavod – Leesta – Lemex – Lisi Aerospace Canada – Maetta – Marquez Transtech – MDA Space – Mecachrome Canada – Mecaer Amérique – Mesotec – Messier-Dowty – Metcor – Meyer Canada – Moncar Précision – Moulages Aéronautiques Alcoa – Moules PCM – MSB Design – Nétur – Norduyn – Optimus – Patenaude Industries – Placeteco – Pratt & Whitney Canada – Quéloz – Raymor – RTI International Metals – Sargent Aérospatiale Canada – Sermatech Canada – Shellcast –

Sido – Sinters Canada – Sonaca Montréal – Soudure Aérospatiale – Techniméca – Techniprodec – TECO Précision – Thales Canada – Thermetco – Anodisation & Peinture TNM – Trident Industries – Vac Aero – Anodisation Verdun – Vestshell

2 AS 9110 certified companies

Pôle Air Aviation – Turbomeca Canada

18 ISO 9001:2008 certified companies

Air Data – Almaho – C.E.L. – CAE – Diacarb – Essential Turbines – Flexibülb – Lavod – Lemex – Maetta Systèmes & Logiciels Mannarino – Minicut – Norduyn – Patenaude Industries – PATT Technologies – Pôle Air Aviation – Précision J.L.M. – Turbomeca Canada

91 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'usinage FJ – Automatech Industrielle – Avena Technologies – Avitec – Bombardier Aéronautique – CanRep – Circuits CMR – Composites Atlantic – CPS Industries – CS Communication et Systèmes Canada – Deburex – Delastek – Deloro Stellite – DMG – Electro-Kut – Élimétal – Esterline CMC Électronique – Finecast – Fiso – Gentner – GFI – GGI International – Goodrich – Groupe Meloche – Gurit – Harbour Industries – Héroux-Devtek – ICT – JSR2 Aerospace – 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 – Mitec – Moulages Aéronautiques Alcoa – Moules PCM – MRT Robotics – MSB Design – Optimus – Outils Arpex – Pega Précision – Placeteco – Plasmatec – Précision JLM – Produits Belt-Tech – Produits intégrés Avior – Quéloz – Rasakti – Rheinmetall Canada – Rolls-Royce Canada – Sargent Aérospatiale Canada – Sermatech Canada – Sermati Canada – Shellcast – Sico – Sido – Sinters Canada – Soudure Aérospatiale – SPG Data 3D – Techniprodec – Techspace Aero Canada – TECO Précision – Terminal & Câble TC – Thermetco – TMH Canada – TNM Anodisation & Peinture – TQF Technologies – Tribospec – Trident Industries – Ultraspec – Verdun Anodisation – Vestshell – Werner Metals

30 NADCAP certified companies

Abipa – Aérospatiale – Alphacasting – Bombardier Centre de tubes de Mirabel – Composites Atlantic – CP Tech – Esterline CMC Électronique – Exova – Genitest – Groupe Meloche – Héroux-Devtek – L-3 Communications MAS – Lemex – Lisi Aerospace – Lego – Messier-Dowty – Metcor – Meyer – Moulages Aéronautiques Alcoa – Optimus – RTI-Claro – Shellcast – Sonaca Montréal – Soudure Aérospatiale – Technickrome – TNM Anodisation & 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.

III – MANPOWER AND TRAINING

ÉCOLE POLYTECHNIQUE DE MONTRÉAL

www.polymtl.ca

Signature of a major technology collaboration agreement

On 26 November 2010, École polytechnique de Montréal and its university research valorization company Univalor signed a major collaboration and technology transfer agreement with the Safran Group in Paris. It was signed at the France-Québec Symposium on competitiveness and excellence clusters in the presence of the Premier of Québec, Jean Charest, and the French Minister of the Economic Affairs, Industry and Employment, Christine Lagarde. The framework agreement covers the use of composite materials for applications in aerospace propulsion and equipment, defence and security. It establishes terms for the funding of several university research projects between Polytechnique and the Safran Group, representing several million dollars over the next few years.

A first \$1.2 million project to develop applications for future aircraft engines has already begun and has received financing from the Québec Ministry of Economic Development, Innovation and Exportation (MDEIE) under the “Programme de soutien à la valorisation et au transfert” (PSVT), and from the Natural Sciences and Engineering Research Council of Canada (NSERC) under the Idea to Innovation (I2I) program.

The framework agreement also includes the award of a licence to Safran Group, in a specific application field, by École Polytechnique Montréal's commercial partner, Polyvalor, s.e.c., which is managed by the university research valorization company, Univalor, for a novel flexible resin injection moulding process called Polyflex. This new approach to injection moulding, developed by Polytechnique mechanical engineering research scientists François Trochu and Edu Ruiz, and patented by Univalor in 2003, allows the manufacture of autoclave quality parts at a fraction of the cost and much more quickly than classic rigid injection moulding techniques such as Resin Transfer Moulding (RTM).

QUÉBEC AEROSPACE INTEGRATED SYSTEMS TEACHING LABORATORY (LESIAQ)

<http://lesiaq.aero>

In an initiative facilitated by CAMAQ, Bombardier Aéronautique and Bell Helicopter Textron are making available authentic test platforms for the Bombardier Challenger 300 aircraft and the Bell Helicopter Textron Bell 427 helicopter to Québec's educational network. They will be used in the new Québec Aerospace Integrated Systems Teaching Laboratory (LESIAQ) that will be established at the École des métiers de l'aérospatiale de Montréal (ÉMAM) of the Montréal School Board. The two companies will deliver these turnkey testing platforms during the next twelve months and also ensure that they remain in good working order. Timely upgrades are also anticipated over the coming years to reflect ongoing technological advances.

IV – SHOWS, EXHIBITIONS, MISSIONS AND SYMPOSIA

AEROSPACE DAY

www.aeromontreal.ca

On 16 March, Aéro Montréal, Québec's aerospace cluster, organized an aerospace day in Québec City. Mr. Gilles Labbé, Chairman of Aéro Montréal, and president and CEO of Héroux-Devtek, had the opportunity to address Québec City's Chamber of Commerce and highlight the expertise of technology companies in the region, notably in optical and photonic networks, as well as composite and plastic materials. He also emphasized their potential to become participants in the global aerospace industry supply chain.

Following Mr. Labbé's speech, a symposium with the theme "Québec technology companies serving the aerospace industry" was organized in collaboration with Québec International. It gave Québec City technology companies an opportunity to meet with representatives from the leading Québec aerospace companies that are participating in the more ecological aircraft project, namely Bombardier Aéronautique, Bell Helicopter Textron Canada, Pratt & Whitney Canada, Esterline CMC Électronique, Thales Canada and Héroux-Devtek.

Industry and the Government of Québec finance the ecological aircraft project. Its purpose is to test new concepts related to the development of green aircraft. The Québec aerospace industry leaders who attended the event also emphasized the extent of the economic benefits the industry brings. Although it is strongly concentrated in Greater Montréal, it generates wealth for all Québécois and also helps to showcase Québec internationally. These sentiments were also echoed in the Québec National Assembly where, in order to mark aerospace day in Québec City, politicians from all parties unanimously adopted a motion recognizing the aerospace industry as a symbol of national pride.

ÉCOLE NATIONALE D'AÉROTECHNIQUE (ENA)

www.college-em.qc.ca

Aerospace technical seminar on Innovations and perspectives

This third of such seminars, organised by the Centre technologique en aérospatiale (CTA) and the École nationale d'aérotechnique (ÉNA), took place on 15 March, and was attended by more than 220 aerospace industry professionals. Bell Helicopter presented its latest helicopter, the Bell 429 that was developed using a modular approach, including the BasiX-PRO avionics platform that was developed in-house. Bell has delivered 35 429s to-date, and plans to build 52 this year. Héroux-Devtek made a presentation on manufacturing, operations and recycling challenges in the development of future landing gears. The company will make significant efforts to develop replacements for hazardous products and reduce the noise generated by landing gears. CTA demonstrated its capabilities in non-destructive testing

and calibration of machine tools. A demonstration of machine tool calibration using inclinometers and interferometers allowed attendees to observe these techniques.

The Québec Government Air Service explained the challenges it faced in maintaining the Challenger CL-601 an air ambulance that was withdrawn from service in August 2010. It had logged 30,000 flight hours and 35,000 flight cycles, twice the typical useful life of business aircraft, which is around 15,000 cycles. Four avionics upgrades were incorporated during the aircraft's life. Spare parts availability was a constant concern. The Air Service developed methods to ensure a very high availability rate for the aircraft. The Québec government has donated the aircraft to ÉNA to support the training of future technicians.

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