

Avionics Talk

Year End
Wrap-Up

Fall 2006/Winter 2007

A Note From . . .

The past year was another great one for both KAAV and MC2!

As is always the case with such things, we need to start by thanking our clients for this success. You are helping us to continue our leadership in Canadian avionics service, repair, sales and installation.



The past 12 months have seen us execute and enjoy some great projects. We have of course added a few more "firsts" to our list. Like our new integrated EFIS/Autopilot cockpit for the Eurocopter EC 120, a mod that is already getting attention from other possible clients. At MC2 our Electronic Flight Bag (EFB) STCs for the Falcon Models 50 & 900 (including 'EX' models), as well as many other popular airframes, are increasingly gaining more industry notice. In the near future, we expect MC2 to complete their work on an EFB STC for the Bombardier 604. This new STC will cover the 601 series as well.

Our growth in the avionics wire harness manufacturing arena at Kitchener has been stunning, with most of our manufactured products targeted to the large airliners. And lastly, MC2 recently won the contract with the Transport Canada to upgrade avionics systems in their fleet of Cessna Citation aircraft. An industry insider recently referred to this project as "The Super Bowl" of avionics programs.

With this success has come more growth and expansion. The respective teams at KAAV and MC2 have added members to properly service and support this new business. We have welcomed 30 new staff at KAAV alone, and several more at MC2. We have also added new technology and the tools to make our business work better for you - most notably state-of-the-art laser wire marking technology at both sites for increased efficiency and quality in wire harness fabrication. And MC2 have added additional shop and office space to that which they only just moved into a little over 12 months ago!

This development and sustainable growth is because of our clients and the continued vote of confidence that we get from them through their continued trust and business. We thank you all and offer our best wishes to you and your families for a successful and prosperous New Year.

The official news came just prior to us leaving for the

NBAA Convention and Trade Show in Orlando this past October, that MC2 and KAAV had won a very prestigious contract from Transport Canada. We were competing against the biggest names in the North American avionics business. It was thrilling to learn that our team was selected to perform the avionics retrofitting to Transport Canada's entire fleet of Cessna Citation II aircraft.



This is without question one of the largest and most prestigious avionics and flight system support revamps commissioned and undertaken not only in Canada, but for the total Citation II fleet globally. Collins ProLine 21 big-screen EFIS and Avionics Systems, Airborne Collision Avoidance Systems and Terrain Awareness Warning Systems will be added to the fleet. In addition, the cockpit of Transport Canada's Cessna Citation full flight simulator will be updated to the same configuration as the retrofitted aircraft. The work will be completed at MC2's YYZ facilities over a two-year period and involves Transport Canada's nine Cessna Citation II aircraft and their simulator.

The fit and mix between client, service provider and equipment suppliers, had to be an exact match. We are very pleased to have Rockwell Collins, L3 Avionics, Universal and Honeywell joining us as the primary OEM suppliers in this commitment to bring the TC fleet to a new standard in performance and service reliability and flight operational enhancement.



The 1st of 9 - just days after arriving and well underway.

We have dubbed this project "Polaris" - because as we all know it is the brightest star in the Northern sky and always indicates due north to an observer anywhere on the Earth. The name also underscores the importance of this system and upgrade to Transport Canada in their travels.

With Thanks Again to our
CBAA 2006 OEM Participants



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The Laser Age Comes to KAAV and MC2!



New laser labeling units.

Both KAAV and MC2 have recently added laser wire-marking technology to our respective facilities. These \$100,000.00 units provide far superior and safer wire-marking, at much higher volumes than was previously possible.

Ultimately the investment in these machines will save time and customer cost through

increased efficiency of production. For the KAAV team in particular, where harness manufacturing has become a very large and important part of our business. This new unit is allowing us to build and deliver superior products to our clients.



Harness manufacturing lines at KAAV.

We are also told that while this system is not unique, we are one of the first service providers in Canada to make the investment in these units - underscoring our unwavering commitment to absolute quality.

CBAA Presents Awards to both KAAV and MC2!

During the CBAA convention in June 2006, both KAAV and MC2 were honored to be two, among the very first three recipients of the association's Industry Support Safety Awards. The awards read:

Kitchener Aero and Barry Aylward:

In recognition of 25 years of support to general, business, and commercial aviation, and the safety enhancements achieved through the repair, installation, service and systems design, integration, and specialization in avionics.

Mid-Canada Mod Center and Bill Arsenault:

In recognition of support to business and commercial aviation, and the safety enhancements achieved through the upgrade, installation, service and systems design, integration, and specialization in avionics.

Barry Aylward accepted the awards from Nick Stoss of the Transportation Safety Board.

Another Helicopter First for KAAV!

A major Canadian energy sector company and long-time KAAV customer recently purchased a new Eurocopter EC 120B "Colibri" for use in the surveying, inspecting and management of its vast network of service, supply and delivery systems. Following delivery from the manufacturer, the helicopter was flown directly to KAAV for avionics completion and special missions modifications.



New EFIS on EC 120B

The EC 120B arrived with a very basic avionics and instrument suite. KAAV's role was to design, install, and certify an extensive Avionics and Special Missions package. The mod project began in June and concluded in August - inclusive of flight tests, certification and client acceptance.



The EC 120B as delivered by KAAV at the end of August 2006.

Most visible among the upgrades is the big 2-screen SAGEM ICDS-8 EFIS Flight Display system, which is fully integrated with the SAGEM AP85 2-Axis Autopilot System. Attitude and Heading reference for the EFIS and Autopilot Systems is supplied by a LITEF LCR-92 AHRS System. Not nearly as visible,

but an important part of the special missions mods is a state-of-the-art fixed, downward facing camera system, images from which can be displayed on the MFD Display.

The equipment incorporates: SAGEM AP85-120 2-Axis Autopilot System with optional Altitude and Airspeed Hold, SAGEM ICDS-8 2-Screen EFIS (PFD/MFD), LITEF LCR-92 AHRS System, NAT AMS 44 Audio Panel, Garmin GNS 530 & GNS 430 Nav/Com/GPS Systems, Garmin GTX 327 Transponder, Garmin GDL 69 DataLink XM Weather System, Avidyne TAS-620 Traffic Awareness System, Honeywell KRA-405B Radar Altimeter System, Technisonic TFM-403 UHF FM Comm System, Custom Digital Camera & Video Recording System & SAGEM MFD (with optional Aux Video Card for real-time display of camera image).

This marks the 4th unique Special Missions rotorcraft mod project to be completed and delivered by KAAV in the past 24 months.



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