



## Media Release

**Date:** January 25, 2002  
**Subject:** Mid Canada Mod Center announces contract with Air Georgian (Air Canada Regional Carrier) Attitude Heading Reference Systems.

### For Immediate Publication

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**Mississauga, Ontario, CANADA** – Mid-Canada Mod Centre (MC2) is a premier avionics sales, installation and integration firm. MC2s client base encompasses Europe, the Eastern Seaboard and all across Canada. The focus of their technical expertise is on the corporate and commuter aviation markets where they have been responsible for many industry *firsts*.

Air Georgian is the Air Canada/Air Alliance partner operating regional passenger service to various Ontario destinations including some remote communities located in the northern part of the province. A commercial carrier, they have been studying with MC2 various options related to upgrading the avionics on their fleet of Beech 1900D aircraft– specifically in the area of Attitude Heading Reference Systems or AHRS.

The primary function of an AHRS is to provide measurements of aircraft pitch, roll and heading Euler angles and accelerations for use in flight deck displays, flight control systems, flight management systems and other avionics equipment. Use of an AHRS generally enhances flight control system performance and reliability.

To do this, the AHRS measures the angular rates and linear accelerations about the body axes of an aircraft and digitally processes this data to obtain three-axis angle, rate and acceleration information. The unit receives low-level analog signals from a Flux Detector (magnetic sensor) – located near the rear of the aircraft and then converts these into a digital output. Once “processed”, the information becomes algorithms to compute pitch, roll and heading Euler angles along with acceleration information.

In speaking about the review, Bill Aresenault, VP of MC2 stated: *“We always look for the best combination of service options, product use and of course price for our clients. In this particular case, given the operational needs of the Air Georgian Beech aircraft and in particular the types of areas that they fly in and out of - mostly smaller more intimate airfields - it was decided that the Dual Rockwell Collins AHC–3000A Attitude Heading Reference System is the best match for their upgrade.”*

Accordingly, Air Georgian have placed an order with MC2 for this project that is based upon 12 aircraft receiving the AHC–3000A. There are options attached to the order too for an additional 14 more shipsets. An integral part of this order requires that MC2 put their design and engineering skills to work developing an STC for the program. This will be done with Rockwell Collins Avionics and the current timeframe forecasts installations to commence by the 2<sup>nd</sup> quarter of this calendar year.

As Arsenault stated: *“The introduction of the Attitude Heading Reference System to the Air Georgian fleet is a significant move. It represents a credible step through reliable technology in furthering the already excellent operational safety standards of the Air Georgian fleet. In developing the STC, MC2 is achieving yet another in our series of industry firsts.”*

In conjunction with sister firm, Kitchener Aero, MC2 have been recipients of various awards and accolades for technical excellence and outstanding customer support. They operate facilities at both the Toronto International and Kitchener/Waterloo Regional airports. Their new facility at Toronto’s Lester B Pearson International Airport is located in Hangar #6, within the North Side, General Aviation compound of the field. From this site they offer a top-notch, secure facility and the product/engineering expertise that has won them client loyalty and steady growth.

For more information about this release or about any aspect of MC2, please see the company web site – [www.midcanadamod.com](http://www.midcanadamod.com) or feel welcome to contact Bill Arsenault directly at (905) 673-9918.

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Bill Arsenault, VP Mid Canada Mod Center holds one of the 12 AHRS that his firm will be installing for Bob Scott, VP of Maintenance for Air Georgian, in the air carrier’s fleet of Beech 1900 D. To fulfill the order, MC2 developed the STC for the mod with Rockwell.



The Dual Rockwell Collins AHC-3000A AHRS – a small box that rack mounts in the avionics bay of the aircraft and then interfaces with the FMS to provide information on aircraft pitch, roll and heading Euler angles and accelerations.



The AHC-3000A units that are being installed in the Air Georgian Beech 1900D fleet by Mid Canada Mod Center are housed in the nose compartment avionics bay of the aircraft. The initial order is for 12 aircraft with an option for an additional 14 shipsets. The first phase of the project should be complete by Q2 of this year.

*For additional information or copies of these photos, please contact Rob Seaman at Business Aviation Service Solutions (BASS Inc.) by telephone at (416) 806-2966 or email at [rwseaman@bizav.ca](mailto:rwseaman@bizav.ca).*