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Blue Avionics' BA-440 system certified by Safran Engineering Services and Duncan Aviation on their jointly developed FAA ADS-B OUT DO-260B STC for CL601-3A/R Aircraft

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CHESTER SPRINGS, PA – The Blue Avionics BA-440 Router/Filter provides Safran Engineering Services and Duncan Aviation with the SBAS GPS interface and full ADS-B system monitoring for their supplemental type certificate (STC) of Automatic Dependent Surveillance-Broadcast (ADS-B) solutions on Bombardier Challenger CL601-3A/R aircraft with Honeywell GNSSU HG2021GD04/06 and Rockwell Collins TDR-94D (-500 series) transponders.

“The goal of our AML-STC is to create cost-effective, easy to install ADS-B “Out” solutions that not only meet regulatory requirements but provide straightforward solutions for installers. The Safran Engineering Services ADS-B “Out” AML-STC will be made available to all Rockwell Collins Authorized Sales & Service Center installation facilities around the globe, streamlining the installation process allowing operators easier access to ADS-B “Out” solutions for their aircraft,” said Scott Hall, Aftermarket Sales Manager for Safran Engineering Services.

In addition to Federal Aviation Administration approval, Safran Engineering Services intends to seek appropriate approvals with Transport Canada and the European Aviation Safety Agency which will streamline the installation process for ADS-B Out equipage in the United States, Canada and in Europe.

The Blue Avionics BA-440 Router/Filter is required to condition the ARINC 429 output from the Honeywell GNSSU HG2021GD04/06 SBAS GPS to interface with the Rockwell Collins TDR-94D (-500 Series) Transponder. The pairing of the three subsystems as certified by SAFRAN STC provides CL601-3A/R operators with perceptive annunciations and intuitive pilot failure procedures, thus making the BA-440 the best value and most comprehensive solution in the market today. The multifunctional BA-440 provides an upgradable solution for future growth while providing a fully compliant solution today’s regulatory requirements by both the Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) to meet the January 2020 mandate deadline for ADS-B Out DO-260B retrofits.

Blue Avionics Founding Member, Ross Cairns, points out that the pairing of the Honeywell GNSSU and Rockwell Collins Transponder is made possible by using the BA-440’s configurable data rate and ARINC block handling features. These configurable features enable the BA-440 to



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interface the Honeywell GNSSU HG2021GDXX and CMC CMA-3024/5024 SBAS GPS units to the Collins TDR-94D Transponders IAW DO-260B PVT Nav Data Block requirements.

Blue Avionics Program Director, Bill Smith, notes, “The BA-440 system provides the best value for a fully compliant ADS-B Out solution for the owners and operators.”

The value of the BA-440 system is in its flexibility and capability to perform more than just a single ADS-B function such as turning on a light. The BA-440 system provides the most comprehensive support of ADS-B “as noted below”. Yet while concurrently, it is providing future support for NextGen systems requiring an ARINC 429 interface and/or discrete combinations by simply using the installed BA-440 system for ADS-B with only an update to the installed configuration plug’s personality table.

- 1) Fully Compliant to AC20-165A and DO-260B Monitoring and Annunciations
- 2) Certified per FAA, EASA, and CASA ADS-B Out Requirements
- 3) On-side and Cross-side monitoring of System integrity of each ADS-B Component, mode status, Off/Missing digital ARINC data.
- 4) Device Failures for all equipment including self-monitoring Device failure using DO-178B DAL B software
- 5) Inhibits Annunciations if system is in standby mode.
- 6) Fully Compliant to AC 25.1309-1A Safety Requirements – DAL B monitoring of DAL B systems
- 7) Monitor and complaint with ADS-B monitor requirements of TSO-C166b and TSO-145C
- 8) Required to Interface the Honeywell GNSSU to the Collins TDR-94D (-500 series) Transponder for DO-260B compliant ADS-B Out.
- 9) Provides INS filtering to the TDR-94D (400/500 series) Transponders

The multifunctional BA-440 can be configured to handle a variety of ARINC 429 and discrete functionality inclusive and exclusive of ADS-B. For more information contact Blue Avionics at (+1.610.458.3763 / Blue.Sales@BlueAvionics.com)

For more information regarding licensing of the Safran Engineering Services CL601-3A/R DO-260B ADS-B Out STC please contact Scott Hall (+1.425.407.6702 / Scott.Hall@Safran-Engineering.com). For more information regarding the incorporation or installation of the CL601-3A/R DO-260B ADS-B Out STC please contact Steve Elofson Steve.Elofson@DuncanAviation.com (+1.402.475-1603)



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About Safran Engineering Services

Safran Engineering Services, a Safran group company that is part of Labinal Power Systems, offers high technology engineering solutions in aeronautical, energy and ground transportation. With its 3700 engineers and technicians, the company also includes Operations Entities all around the world (France, Germany, United Kingdom, Spain, United States, Mexico, Morocco, Canada, Brazil and India) combining expertise in electrical systems, aerostructure, mechanical systems, software and electronic embedded systems.

For more information, <http://www.safran-engineering.com/>

About Blue Avionics

Blue Avionics designs, builds, and manufactures, certified, specialized function, custom, and highly configurable Multifunctional Avionics equipment, Aircraft upgrade Harnesses, and mechanical mounting parts. Blue Avionics has FAA certified production centers in New York and Maryland with headquarters located in Pennsylvania. Blue Avionics is one of the first Avionics companies to certify a highly configurable Multifunction Avionics unit (the BA-440 Router/Filter) that can be used for many different functions in an aircraft with DO-178B / DO-254 DAL B integrity and safety. Call or email us to find out more.

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