



IFIS2016
Bringing Together Theory and Practice

IFIS - the International Flight Inspection Symposium takes place in Belgrade, Serbia, from June 13-17, 2016. Organizer for IFIS 2016 is SMATSA, the Serbia Montenegro Air Traffic Services Agency.

smatsa

Aerodata as a Signature Sponsor contributes to the success of the event.

aerodata
[precision in special mission]



AeroFIS® installed in Argentinean LearJet 35A

Delivery of two Flight Inspection systems to Balai Kalibrasi Indonesia

End of 2013, the Aerodata AG received an order to equip two new Beechcraft King Air, B300, of the DGCA Indonesia with fully automatic flight inspection systems AeroFIS®. Aerodata was responsible for development, production and installation of the two flight inspection systems AD-AFIS-255. Part of the installation into the B300 is a state of the art operator console and a fully equipped equipment console with retractable second screen.

Flight Inspection Aircraft Deliveries

Second Flight Inspection System for the Argentinean Aeronautical Administration (AAA)



Argentinean LearJet 35A with Flight Inspection System

In 2015 Aerodata has delivered the second AeroFIS® to Argentinean Aeronautical Administration (AAA). The system has been installed into the second LearJet 35A. The LearJet was previously modified to accept the second system

Besides the established radio navigation systems the AD-AFIS-110 provides also the capability to inspect advanced RNAV procedures.



AD-AFIS-255 installed in KingAir 350i

Besides the capability to flight inspect the established radio navigation systems the AD-AFIS-255 provides also the capability to inspect advanced ADS-B, RNAV, SBAS and GBAS procedures. In both aircraft an interface connecting the AeroFIS® to the aircraft autopilot system is installed to support the pilots on their flight inspection mission.

The installation was performed at the facilities of our partner Hawker Pacific in Singapore. After completion of the modification with the EASA certification in 2015 the aircraft were delivered.



New Flight Inspection Contracts

Two new Helicopter Flight Inspection Systems for Indonesia

Recently Aerodata AG was contracted by Balai Kalibrasi for the delivery of two new helicopter flight inspection system HeliFIS. The systems will be installed into two factory new Bell 429 helicopter.



The new Bell 429 for HeliFIS operation

TU Braunschweig and Aerodata start the Joint Research Project MEGA

The joint research project MEGA is supported by the German Federal Ministry for Economic Affairs and Energy in the framework of the Federal Aeronautical Research Programme V. The research is focussed on the inspection of GNSS based CAT-III approach and taxiing guidance systems. The project implementation is done in close cooperation with the Institute of Flight Guidance of the Technische Universität Braunschweig and lead-managed by Aerodata.

The use of GNSS based systems will lead to an increase in approach and landing capacity at highly frequented airports during difficult weather conditions. This is achieved by a reduction of Instrument Landing System (ILS) protection zones and a significantly increased positioning accuracy of taxiing guidance applications within the GAST-D (Ground Based Augmentation System Approach Service Type D) technology. GAST-D is comparable to an ILS of category III (CAT-III) and is currently being developed in the SESAR framework and by NextGen programmes. The safe operation of GAST-D installations can only be certified and ensured after conducting a successful flight inspection in terms of a commissioning. The joint research project MEGA aims at developing a

prototype flight inspection system, which is capable of calibrating a GAST-D installation. The project term ends March 31st, 2019. Thus, Aerodata will be able to deliver a GAST-D capable AeroFIS flight inspection system when the first GAST-D installations are expected to become operational.

Other Activities

Marshall Aerospace and Defence Group contracted as partner for the Pakistan Navy Maritime Patrol Aircraft project

Aerodata has contracted Marshall Aerospace and Defence Group to provide Special Mission role conversion engineering services to Aerodata in relation to its ATR-72 modification program for the Pakistan Navy. Through this contract, Aerodata has secured the additional engineering resources required to design the necessary modifications for the conversion of the ATR-72 500s into a maritime patrol aircraft.

The role conversion modifications include the installation of radar, camera and self-protection equipment, as well as stores pylons. Marshall will be responsible for the engineering of kits, fixtures and fittings to support the integration and certification of this equipment.

Marshall is performing the engineering activities at its Cambridge headquarters, where it has a team of more than 2,000 highly trained personnel and access to an extensive range of engineering and test facilities.

Aerodata's mission system AeroMission provides the core processing and display capabilities in the maritime patrol aircraft. AeroMission collects data and manages all subsystems for the performance of both above and under water maritime surveillance. High speed real time data links enable the immediate transfer of critical information to all relevant units in the Pakistan Navy.

In addition to the engineering activities, Aerodata will manufacture equipment racks, operator work stations and all parts required for the aircraft conversion.

Prime contractor for the program with the Pakistan Navy is Rheinland Air Service, who will perform the physical installation of the mission equipment at its base at Mönchengladbach airport.



Equipment for PC-24 Flight Test

During the first quarter 2016, Aerodata has delivered 2 Flight Test Engineer Positions to Pilatus Aircraft. These work stations have been designed and manufactured in accordance with the requirements of Pilatus. These work stations are in use already in the second PC-24 flight test aircraft.

ILA, Berlin Air Show 2016

Aerodata and OPTIMARE will exhibit at ILA (Berlin Air Show), Berlin from June 1 – 4, 2016. Please visit us at stand 313 in hall 2.

As part of the study, Aerodata Systems & Services reviewed the existing certification documentation for the helicopter engine TV3-117VMA-SBM1V including Series 4 and 4E and assessed the feasibility of EASA certification. Aerodata contracted EASA experts to participate in some of the discussions with Motor Sich.

Engine Certification Study

Aerodata Systems & Services, a 100% subsidiary of Aerodata AG, has completed successfully a study concerning the EASA certification of a helicopter engine. The study had been contracted in 2014 by Motor Sich, one of the largest engine manufacturers in the world.

Motor Sich is based in Zaporoshye, Ukraine, and manufactures turbine engines ranging from small UAV engines to the engines for the Antonov An-225.

Exhibitions

Aerodata and OPTIMARE will exhibit at Africa Aerospace and Defense (AAD) in Pretoria, South Africa from September 14 – 18, 2016.

Contact

Aerodata AG, Hermann-Blenk-Strasse 34 - 36,
38108 Braunschweig, Germany
phone +49 531 2359 0, fax +49 531 2359 158
email: info@aerodata.de
web: www.aerodata.de