



Delivery of second ATR-72 Maritime Patrol Aircraft



ATR-72 Maritime Patrol Aircraft at Paris Air Show 2019

In the second quarter 2018, Rheinland Air Service had delivered the first ATR-72 Maritime Patrol Aircraft (MPA) to a customer in South Asia. Aerodata as a subcontractor to Rheinland Air Service had provided its mission management system AeroMission® for this program. In addition, Aerodata scope included system integration activities, engineering tasks to convert the ATR-72 from a transport configuration into a maritime patrol configuration and the delivery of parts for the aircraft modification as well as customer training and support. After completion of the in-country acceptance procedure, the first ATR-72 MPA commenced operation in the second half of 2018.

In June 2019, one year after the delivery of the first aircraft, Rheinland Air Service delivered the second Maritime Patrol Aircraft. The delivery followed the display of the aircraft at Paris Air Show 2019.

The central element of the Maritime Patrol Aircraft is the most capable variant of Aerodata's mission management system AeroMission®. AeroMission® is characterized by its scalable architecture; applications range from simple helicopter usage to full Maritime Patrol Aircraft configurations. While the AeroMission® work stations in the cabin are providing mission information to the operators, cockpit information displays provide situational

awareness to the cockpit crew. This feature, also used in other Aerodata products, reduces the workload for the entire crew on the aircraft.

AeroMission® fully integrates all sensors, sensor subsystems, communication systems, and the stores management system. Therefore, the crew is able to view all mission relevant data and to control the connected systems. The workload can be distributed between crew members according to the mission requirements.

Delivery of two MEDUSA® Mission Management Systems

OPTIMARE Systems GmbH, 100% subsidiary of Aerodata AG has delivered two MEDUSA® mission management systems to RUAG Aerospace Services GmbH for integration into two new Dornier 228 Maritime Patrol Aircraft of the Bangladesh Navy.

Two Airborne Sensor Systems for the UK

Before the end of 2019, OPTIMARE Systems GmbH has completed the delivery of a MEDUSA-based remote sensing system to the UK operator



2Excel Aviation Ltd. The system provides the capability to analyse marine oil pollution.

Shortly after delivery OPTIMARE received an order from 2Excel for a second system. The sensor systems are installed on maritime surveillance aircraft of type Beechcraft B200.

Flight Inspection Systems

Delivery of two Flight Inspection Systems AeroFIS®

In 2018 Aerodata has been awarded with a contract for the delivery of two Automatic Flight Inspection Systems (AFIS) together with kits for aircraft installation, spare parts, ground support equipment and training. After installation of these systems into two M-28B/PT aircraft, the new equipped flight inspection aircraft started service mid 2019. The AFIS capabilities include the calibration of Instrument Landing Systems (ILS CAT I, II and III), Precision Approach Radar (PAR), as well as civil and military navigation aids for en-route navigation such as VOR, DME, NDB and TACAN. For communication purpose, the systems include civil VHF and military UHF radios.

AeroFIS Delivery to Germany based FCS Flight Calibration Services

In December the 6th flight inspection system AeroFIS® has been delivered to our customer FCS Flight Calibration Services GmbH. The delivery included the installation into one new Beech King Air 350 with Rockwell Collins Pro Line Fusion avionics suite.

The Automatic Flight Inspection System (AFIS) is individually customized to the highest extent, in order to comply with the demanding requirements of FCS.

The AFIS integrates the new developed TSO based receiver for flight inspection of GBAS GAST-C and GAST-D.

Besides a full set of dedicated civil and military flight inspection receivers, also the primary aircraft navigation receivers are interfaced and serve as independent data source for comparison.

The position reference is a hybrid multi-constellation phase tracking GNSS solution that includes IRS, Barometric Altitude, GPS, SBAS as well as GLONASS and GALILEO and combinations hereof.



AeroFIS® installed in KingAir B300 with Proline Fusion Cockpit

The flight validation features of the AFIS are enhanced by external video cameras for documentation of pilot view, approach and runway lighting systems and obstacles. Obstacles are highlighted online by symbol overlays to the video. The overlays are calculated based on aircraft position, attitude, camera optics and an obstacle database.

A cockpit camera documents the pilot workload as well as indications of the EFIS during the validation of instrument flight procedures.

The video data is recorded together with the flight inspection data for time synchronized replay.

This delivery marks the continuation of the successful cooperation between FCS Flight Calibration Services GmbH and Aerodata for the next decades.

Delivery of second Flight Inspection Aircraft to the Czech Republic

In December 2019 Aerodata has delivered another Super King Air 350 equipped with automatic flight inspection system AeroFIS® to Air Navigation Services (ANS) of the Czech Republic on time.



Within this project, Aerodata took the responsibility for the purchase of the two basic aircraft, the design and production of the Flight Inspection



Systems as well as for the integration into the aircraft and all related services as ferry and training for both, pilots and operator.

With the start of the new year, the two new King Air's have taken over the flight inspection duties for the navigation systems in Czech Republic.

The contract further includes 5 years aircraft maintenance of the both aircraft, CAMO as well as 20 years maintenance for both AeroFIS®.

Singapore Air Show

Aerodata, Optimare and Aeropearl will exhibit at Singapore Air Show, from February 11 – 16. Please visit us in the exhibition hall at stand **L78**.

In the third quarter 2019, the first flight inspection service mission has successfully been completed.

A team consisting of experts from CAA Kenya, SMART Aviation (Egypt), Aero Calibration Services Ltd. (Mauritius),

ASCO (Egypt) and AeroPearl (Australia) accomplished the mission, using the flight inspection aircraft of SMART Aviation, equipped with an AeroFIS®.



AeroFIS® installed in KingAir B300 with Proline Fusion Cockpit

Service Contract Kenya

Beginning of 2019 Aerodata had signed a 3 years contract with the CAA Kenya for performing flight inspection services in Kenya.

Exhibitions

Aerodata and OPTIMARE will exhibit at Berlin Air Show in Berlin-Schönefeld, Germany, from May 13-17, 2020.

Aerodata will participate at the International Flight Inspection Symposium IFIS 2020 in Durban, South Africa from July 13-17, 2020.

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