



# Flight Inspection Services

## Overview



- SMATSA is the provider of air navigation services in the airspace of the Republic of Serbia, State of Montenegro, 55% of the upper airspace of Bosnia and Herzegovina and a part of the Adriatic Sea.
- We offer the following services:
  - Air traffic management
  - Maintenance of ATC equipment and systems,
  - Meteorological aviation information,
  - Aviation Information Publications (AIPs),
  - Training services, and
  - Flight inspection services.

- Perform calibration of Ground Radio Navigation Aids and inspection of flight procedures, in accordance with the requirements and recommendations contained in ICAO Annex 10 and 14, and ICAO Doc 8071.
- Flight inspection of Ground Radio Navigation Aids is performed for four possible reasons:
  - commissioning,
  - periodic inspection,
  - special inspection, and
  - site proving.

- Established in 1970 with the aim of provisioning of flight inspection services on the territory of former Yugoslavia
- Flight inspection was performed using two Yakovlev Yak-40 aircraft
- Upgraded the flight inspection solution to a King Air 350 and Aerodata flight inspection system in 2010
- Regained contracts for former Yugoslav republics and expanded to Hungary and Albania in 2011
- Purchased a second King Air 350 equipped with an Aerodata flight inspection system in 2013
- Accomplished more than 12,000 flights totaling 15,000 flight hours since 1976.

SMATSA is able to measure the following navigation aids for air traffic safety:

- ILS: Instrument Landing System Category I, II and III
- ILS Markers and FAN Markers
- TACAN: Tactical Air Navigation
- VOR: VHF Omni directional Radio Range
- DME: Distance Measuring Equipment
- NDB: Non- Directional Beacon
- VDF: VHF communications and VHF Direction finding
- UDF: UHF communications and UHF Direction finding
- SSR: Secondary Surveillance Radar with MODE-S capability
- SRE: Surveillance Radar Element
- PAR: Precision Approach Radar
- PRM: Precision Runway Monitor System

SMATSA is able to measure the following navigation aids for air traffic safety:

- VASI: Visual Approach Slope Indicator
- PAPI: Precision Approach Path Indicator
- NPA: GPS Non Precision Approach
- SID, STAR, SIAP: Instrument Flight Procedures
- RNAV, RNP: Area Navigation based on GNSS and DME
- GNSS with SBAS/WAAS evaluation
- GLS: GNSS Landing System GBAS/LAAS
- MLS: Microwave Landing System
- VDL: VHF Data Link
- ADS-B: Automatic Dependent Surveillance Broadcast via 1090ES, UAT
- Moving Facility Calibration (e.g. NAVY Ship TACAN)
- SAR-DF: Search and Rescue Direction Finder

- SMATSA flight inspection solution, one of the most advanced in the world today, ensures:
  - Highest accuracy and integrity leading to highly reliable flight inspection results
  - Minimum flight time (critical for busy airports)
  - Minimum personnel required
  
- SMATSA Flight inspection solution is composed of:
  - King Air 350 aircraft
  - Aerodata Flight Inspection System

# King Air 350 Aircraft

- Performance
  - Cruise speed: 310 knots
  - Operating ceiling: 35,000 feet
  - Range: 1,470 Nm
- Two Pratt & Whitney PT6A-60A turboprop engines
- Rockwell Collins Pro Line 21 avionics





# Aerodata Flight Inspection System



## Key Features:

- Customized solution
- Airworthy computers realized as LRU's
- Integration into the airplane's avionics and autopilot systems
- Simultaneous, multiple facility calibration
- Modular hardware and software concept
- Minimized operation costs
- Full lifecycle support
- Compliant with ICAO Doc 8071 – Annex 10, United States Flight Inspection Manual, OA P8200.1C.



- SMATSA provides flight inspection services of ground radio navigation aids in the following countries:
  - Serbia
  - Montenegro
  - Bosnia and Herzegovina
  - Croatia
  - Slovenia
  - Macedonia
  - Albania
  - Hungary
- SMATSA performs approximately 500 hours of flight inspection per year



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