IFALPA



IFALPA's Views On RPAS

Official Position and Discussion Points

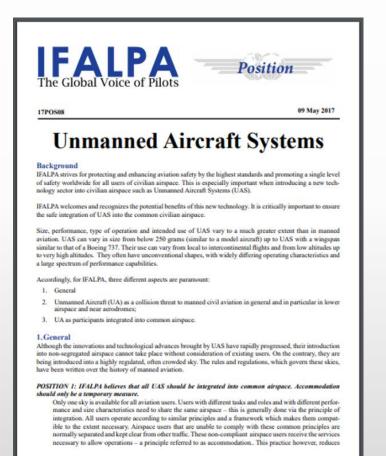




The Mission of IFALPA is to promote the highest level of aviation safety worldwide and to be the global advocate of the piloting profession; providing representation, services and support to both our members and the aviation industry.



Unmanned Aircraft Systems Position Paper



www.ifalpa.org: 17POS08





IFALPA UAS Position Paper

19 position statements arranged under 3 aspects of UAS operations:



- 1. General;
- 2. Unmanned Aircraft (UA) as a collision threat to manned civil aviation in general, and in particular in lower airspace and near aerodromes; and
- 3. UA as participants integrated into common airspace
 - a) Autonomous Aircraft; and
 - b) Remotely Piloted Aircraft



IFALPA RPAS Position

General Consideration



All UAS should be integrated into common airspace. Accommodation should only be a temporary measure



It is not acceptable to change the rules and regulations for manned aviation in order to accommodate UAS integration



Every UAS should have at all times a responsible person in command, who is suitably trained and qualified



IFALPA RPAS Position



Currently, IFALPA does not believe that autonomous unmanned aircraft can be integrated into common airspace



IFALPA believes that UAS technology is not capable of replacing all necessary capabilities of a human pilot on board, particularly in complex time and safety critical situations



All UAS engaged in non-segregated public airspace should be certified and compliant with the provisions described hereafter before being allowed to operate



Integration of UAS into civilian airspace

Further discussion of integration of UAS into civilian airspace include:

Licensing and duty time

Design and operation

Air traffic control

Security

Dangerous goods

Ground operations – airport layout

Safety management systems

Legal



ATC and RPAS Integration



- ► RPAS ATC integration must move from accommodation to integration in shared airspace
- ➤ RPAS should behave like a manned aircraft and be subject to the Rules of the Air
- ► Each UAS should have a designated pilot-in-command at all times
- Delays due to data-link/communication transmission time are not acceptable
- ► UAS should be equipped to provide collision avoidance at all times in all airspaces



Summary

- ► RPAS Operation must move from accommodation to integration in shared airspace
- ► No new regulations for manned aircraft to accommodate RPAS
- ► Every UAS should have a responsible person in command at all times
- Command and Control Link must be reliable
- ► RPAS must be equipped a Collision Avoidance system that operates at all times
- ► IFALPA believes that UAS technology is not capable of replacing all necessary capabilities of a human pilot on board



Thank you







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Biography

Profession

- ► Senior First Officer Airbus A380-800, Thai Airways International
- ► A380 Test Pilot
- ► A380 Cockpit Procedure Training Instructor

Education

- ► MSc Aerospace Engineering : Salford University, UK
- ▶ BEng Mechanical Engineering : Chulalongkorn University, Thailand

Experience

► Aircraft Engineer: Technical Department, Thai Airways International