International Civil Aviation Organization

**TWELFTH MEETING OF THE SOUTH EAST ASIA
AND BAY OF BENGAL SUB-REGIONAL ADS-B
IMPLEMENTAITON WORKING GROUP
(SEA/BOB ADS-B WG/12)**

Guangzhou, China, 08 – 10 November 2016

Agenda Item 3:   **Review implementation and co-ordination activities and sub-regional implementation plans**

REVIEW OF AVIONICS REQUIREMENTS TEMPLATE

(Presented by Australia, Hong Kong China, Singapore and USA)

SUMMARY

This paper invites the Working Group to discuss changes to the Requirements Template adopted by APANPIRG, following the issuance of the FAA AC No. 20-165B.

1.   Introduction

1.1   In order to help States in the promulgation of avionics requirements for ADS-B implementation, as well as to promote a harmonized approach among the Asia Pacific States, APANPIRG adopted a Template for Promulgation of ADS-B Avionics Equipage Requirements ("Requirements Template").

1.2   As and when necessary, the Requirements Template will be revised to accommodate new standards and improvements generated by the experiences of the members States/Administrations in the APANPIRG.

2.   Discussions

2.1   APANPIRG/26 meeting held from 7-10 September 2015 in Bangkok, Thailand, adopted the following conclusion:

Conclusion APANPIRG/26/42 – Template for Promulgation of ADS-B Avionics Equipage Requirements

That, based on APANPIRG Conclusion 20/54, States intending to implement ADS-B based surveillance service for a defined airspace and having not published regulations be urged to promulgate mandating rules for ADS-B Avionics Equipage Requirements as soon as possible using the following template:
On and after dd/mm/yyyy, if an aircraft operates on airways (insert routes)…………at or above FLXXX………(or in defined airspace boundaries ……………. at or above FLXXX):

> *the aircraft must carry serviceable 1090 MHz ES ADS-B transmitting equipment that has been certified as meeting EASA AMC 20-24, or FAA AC No. 20-165A – Airworthiness Approval of ADS-B, or meets the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia.*

2.2   On 7 December 2015, the Federal Aviation Administration (FAA) published the FAA Advisory Circular (AC) No. 20-165B, which supersedes the FAA AC No. 20-165A. Update of the Requirements Template will ensure that the latest standards are supported, while continuing to allow certification against older standards. This is consistent with the Asia Pacific region supporting the use of DO-260/A/B (Version 0, 1 and 2) standards.

2.3   Additionally, it has been noted that EASA have issued Certification Specifications and Acceptable Means of Compliance for Airborne Communications, Navigation and Surveillance (CS-ACNS).

2.4   Based on the above, a proposal is attached for discussion and adoption by the Working Group. The new text, if adopted, will also be updated in future versions of the ADS-B Implementation and Operations Guidance Document (AIGD).

3.   Conclusion

3.1   The Working Group is invited to discuss the proposal attached in **Annex A**.

3.2   Subject to the outcome of discussions, an amendment to AIGD Section 9.11 and Appendix 3 be proposed to reflect the agreed outcome.

Annex A

Notes on the presentation of the proposed amendment

The text of the amendment is arranged to show deleted text with a line through it and new text highlighted with grey shading, as shown below:

a) ~~Text to be deleted is shown with a line through it.~~   text to be deleted

b) New text to be inserted is highlighted with grey shading.   new text to be inserted

c) ~~Text to be deleted is shown with a line through it~~ followed by the replacement text which is highlighted with grey shading.   new text to replace existing text

Proposal

States intending to implement ADS-B based surveillance service for a defined airspace and having not published regulations be urged to promulgate mandating rules for ADS-B Avionics Equipage Requirements as soon as possible using the following template:

On and after dd/mm/yyyy, if an aircraft operates on airways (insert routes)…………at or above FLXXX………(or in defined airspace boundaries ……………. at or above FLXXX):
the aircraft must carry serviceable 1090 MHz ES ADS-B transmitting equipment that has been certificated as meeting EASA AMC 20-24, or EASA CS-ACNS, or FAA AC No. 20-165~~A~~( ) – Airworthiness Approval of ADS-B, or meets the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia.

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