



International Civil Aviation Organization

**THE TENTH MEETING OF AUTOMATIC
DEPENDENT SURVEILLANCE –
BROADCAST (ADS-B) STUDY AND
IMPLEMENTATION TASK FORCE
(ADS-B SITF/10)**



Singapore, 26 -29 April 2011

**Agenda Item 6: Review States' activities and interregional issues on trials and
implementation of ADS-B and multilateralism**

ADS-B MANDATE ISSUED BY SINGAPORE

(Presented by Singapore)

SUMMARY

This paper updates the Task Force on the ADS-B equipage mandate issued by Singapore.

1. Background

1.1 Conclusion 19/37 of APANPIRG/19 urge States intending to implement ADS-B based surveillance service to publish their mandate as soon as possible, with a target publication date of no later than 2010.

1.2 Conclusion 21/39 of APANPIRG/21 urged states to promulgate mandating rule for ADS-B avionics equipage requirements as soon as possible using a template stating:

- a) Effective date of mandate;
- b) Routes and Flight Level affected; and
- c) Equipage Standards to be met.

2. Circular Issued by Singapore

2.1 On 28 December 2010, Singapore issued the Aeronautical Information Circular (AIC) (as attached) informing aircraft on CAAS's plan to implement ADS-B operations after 2013 within parts of the Singapore FIR.

2.2 On and after 12 December 2013, if an aircraft operates on Airways L642, M771, N891, M753, L644 and N892 bounded within 073605N 1090045E, 040713N 1063543E, 041717N 1061247E (MABLI), 044841N 1052247E (DOLOX), 045223N 1041442E (ENREP), 045000N 1034400E thence north along the Singapore FIR Boundary to 070000N 1080000E at or above FL290:

- a) the aircraft must carry serviceable ADS-B transmitting equipment that has been certified as meeting EASA AMC 20-24, or meets the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia; and
- b) the aircraft operator must have the relevant operational approval from the State of Registry. Aircraft that does not have the relevant ADS-B operational approval from the State of Registry will be assigned a flight level at or below FL280.

3. States with intention to implement ADS-B surveillance in future

3.1 Although Conclusions 19/37 of APANPIRG/19 urge States intending to implement ADS-B based surveillance service to publish their mandate with a target publication date of no later than 2010, States with intentions to implement ADS-B based surveillance could still publish the equipage mandates after this deadline. However, in line with the part d) of the Conclusion 19/37, there should be sufficient notice between the publication date and effective date. This is to ensure the operators have sufficient time to plan forward their purchases and retro-fitting.

4. Action by the Meeting

4.1 The meeting is invited to note:

- (a) the AIC issued by Singapore; and
- (b) States could still publish the equipage mandate to implement ADS-B surveillance after 2010, as stated in para 3.1.
