



International Civil Aviation Organization

**THE TENTH MEETING OF THE SOUTH EAST
ASIA AND BAY OF BENGAL SUB-REGIONAL
ADS-B IMPLEMENTATION WORKING GROUP
(SEA/BOB ADS-B WG/10)**



Singapore, 11 - 13 November 2014

Agenda Item 4: Report on ground system and avionics performance monitoring and improvement in compliance

ATC PROCEDURES FOR SURVEILLANCE ANOMALIES

(Presented by Australia)

SUMMARY

This paper provided information on air traffic control procedures when surveillance anomalies observed.

1 Introduction

1.1 The systematic identification and reporting of surveillance anomalies (radar or ADS-B) is important to overall system integrity.

1.2 Australian ATC procedures require certain actions and reporting to assist identification of problems and initiation of corrective (or preventative) action as indicated.

An extract from the ATC procedures is shown below:

2 Extract from National ATC Procedures Manual

9.6.9 Transponder error reporting - Mode A/C/S and ADS-B

9.6.9.1 ATC actions

If an expected surveillance track is not displayed, unexpectedly dropped or displayed in an incorrect position:

- a) advise the flight crew and instruct that they recycle the transponder and/or select secondary transponder as appropriate
- b) further advise the flight crew of the result of any transponder change, and request that the issue be checked post-flight
- c) record details for reporting including, in the case of SSR Mode A/C errors, the transponder type
- d) if ADS-B, and the issue remains unresolved, instruct the pilot to contact the National Operations Centre by telephone after arrival (phone 02 6268 5662).

Note: Point d. above will potentially trigger ADS-B 'blacklisting'. The total absence of ADS-B data (when otherwise expected), does not warrant blacklist consideration, but should be reported via CIRRIIS.

9.6.9.1.1 Supervisor actions

Shift Managers/Ops Room Managers or the Systems Supervisor shall:

- a) for non-display of an expected ADS-B track, check the ICAO Aircraft Address (24 bit code) against the ADS-B Blacklist located at ISS_CB0-1978001
- b) report as follows:

Occurrence	Report
Surveillance Track - incorrect track position, unexplained track drop or absence of track	ATS Occurrence - Abnormal operations - Facility issue Additionally, if ATC actions point d) above is implemented, initiate an ADS-B Blacklist Amendment form (C-FORMS0370)
Other suspected SSR transponder or ADS-B transmitter errors	ATS Occurrence - Abnormal operations - Facility issue
Transmission of incorrect Aircraft Identification or Mode 3/A code which cannot be rectified by the pilot in-flight	ATS Occurrence - Abnormal operations - Facility issue
Incorrect flight planning of ADS-B or ICAO Aircraft Address	ATS Occurrence - Operational information - ATS message/flight planning error
Transmission of incorrect ICAO Aircraft Address	ASID - Surveillance Avionics

3 Action by the Meeting

The meeting is invited to

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

(Prepared by Alex Milns & Greg Dunstone)

(Presented by Greg Dunstone)