



Sixth Meeting of CNS/MET Sub-Group of APANPIRG

Bangkok, Thailand, 15 – 19 July 2002

Agenda Item 14: Regional preparation for the MET Divisional Meeting

ADS REPORTING FREQUENCY

(Presented by Australia)

SUMMARY

This paper addresses the inability of aircraft systems to meet Annex 3 recommendations for reporting frequency of routine aircraft observations when air-ground data link is used and automatic dependent surveillance (ADS) is being applied.

1. Introduction

1.1 This is a copy of a working paper Australia will present under Agenda Item 1.2 at the MET Divisional Meeting. Annex 3 to the Convention on International Civil Aviation, Fourteenth Edition, paragraph 5.4.1 recommends that - *‘When air-ground data link is used and automatic dependent surveillance (ADS) is being applied, automated routine observations should be made every 15 minutes during the en-route phase and every 30 seconds during the climb-out phase for the first ten minutes of the flight.’*

1.2 Recent discussions between Airservices Australia and the Bureau of Meteorology concerning the provision of routine aircraft observations have highlighted the inability of the FANS-1 system to meet the requirements of paragraph 5.4.1.

2. FANS-1 capability

2.1 The FANS-1 aircraft ADS function has a maximum period reporting rate of 64 seconds.

2.2 It is noted that FANS-1 is not an ICAO defined or supported system. However currently many ATS providers are using FANS-1 for ADS, and thus are not able to comply with the recommendation of paragraph 5.4.1.

3. Conclusion

3.1 The limitations of the ADS function of existing systems may require further consideration in Annex 3.

4. Action for the MET Divisional Meeting

4.1 The meeting is invited to note the inability of some current systems to meet Annex 3 recommendations of paragraph 5.4.1; and

4.2 consider if there is a requirement to amend relevant sections of the Annex.