



International Civil Aviation Organization

**The Fourth Meeting of the Asia/Pacific ICAO Flight Plan and ATS Messages
Implementation Task Force (FPL&AM/TF/4)**

Bangkok, Thailand, 2 – 3 June 2011

Agenda Item 5: Aspects of implementation in Asia/Pacific region

Equipment, Capability, and Standards

(Presented by the United States of America)

SUMMARY

This paper presents questions regarding the standards that should be met in order to file the Equipment and Capabilities described in Field 10 and in Field 18 PBN/ .

1. INTRODUCTION

- 1.1 In order to file for specific capability in a flight plan, certification to a standard is often required yet is not addressed in Document 4444.
- 1.2 There is a risk that an airspace user can file a capability based on the required standard in one country that is different from the standard required in another country.
- 1.3 This problem exists in the near-term for ADS-B, and in the future may be an issue for GNSS and PBN capabilities.

2. DISCUSSION

ADS-B

- 2.1 There are two sets of standards for ADS-B equipment: RTCA DO 260-A/DO 282-A and RTCA DO 260B/DO-282B. The United States will require DO-260B/DO-282B for operations. Some countries have plans to allow operations based on DO-260A/DO-282A equipment.
- 2.2 The United States plans to require filers to indicate compliance with the DO-260B or DO-282B standards by filing SUR/260B or SUR/282B as appropriate.

GNSS Augmentation (ABAS, SBAS, GBAS)

- 2.3 GNSS Augmentation is described in ICAO Document 9849 and in Annex 10, Volume 1.
- 2.4 There are no firm instructions regarding exactly what capability to file, or what standards the capability should meet. It is also not clear which ANSPs will require this information, and for what purpose.

2.5 A consensus should be reached regarding acceptable content to reflect GNSS Augmentation.

Other Standards

2.6 In the future, it is not hard to imagine the prospect of G (for GNSS) being inadequate if not all GNSS systems meet the same standards.

2.7 Similarly, Performance Based Navigation (PBN) standards are myriad, complex, and can vary across states. Therefore, care should be taken to ensure that filed PBN capabilities do not become ambiguous.

3. ACTION BY THE MEETING

3.1 The meeting is invited to

- a) Take note of the information provided, and
- b) Identify any issues expected in the region.

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