



International Civil Aviation Organization

The Sixth Meeting of the Aeronautical Information Services – Aeronautical Information Management Implementation Task Force (AAITF/6)

Bangkok, Thailand, 15 to 17 March 2011

Agenda Item 8: Any other business

New Provision to Annex 11

(Presented by Mongolia)

SUMMARY

This paper proposes a new provision to Annex 11, Appendix 2 in addition to the following provision:

2.2.2 Coded designators shall not be duplicated within 1 100 km (600 NM) of the location of the radio navigation aid concerned, except as noted hereunder.

Note. – When two radio navigation aids are operating in different bands of the frequency spectrum are situated at the same location, their radio identifications are normally the same.

1. INTRODUCTION

1.1 Annex 11, Appendix 2 requires that coded designators for significant points marked by the site of a radio navigation aid shall not be duplicated within 1100 km (600 NM) of the location of the radio navigation aid concerned. This applies to radio navigation aids operating in the same frequency band.

1.2 Mongolia is a landlocked country in East and Central Asia. At 1,564,116 km² (603,909 sq mi), Mongolia is the 19th largest and most sparsely populated country in the world, with a population of around 2.9 million people. It extends 2392 km from west to east and 1259 km from north to south. Due to the volume of air traffic, the airspace of Mongolia is encompassed by a single Flight Information Region (FIR) which is called Ulaanbaatar FIR. Air traffic control in Mongolia is provided by Air Traffic Services Division of CAA, located at Chinggis Khaan International Airport of Ulaanbaatar city, Mongolia.

1.3 ICAO has established standards and recommended practices requiring all Contracting States to introduce properly organized automated systems using central database in order to replace the traditional product centric provision of aeronautical information by a data centric and systems oriented solution for improved flight safety. In accordance with these standards and recommended practices, the Civil Aviation Authority of Mongolia has implemented NOTAM processing, PIB, ATS Messages and Aeronautical Information Publication services automation systems since 2008.

2. DISCUSSION

2.1 Because of the large territory and single FIR, Mongolia is encountering some problems in terms of compliance with Annex 11, Appendix 2 “Coded designators shall not be duplicated within 1 100 km (600 NM) of the location of the radio navigation aid concerned”. Larger countries’ airspace is subdivided into a number of regional FIRs therefore this has never been an issue before. However, more and more States are merging their FIRs into a single FIR for the purpose of improving the organization and management of airspaces.

2.2 The distance between Ulaanbaatar NDB with IM identification and Khovd NDB with IM identification is 1124 km which meets the requirements of Appendix 2. But the database of AIS Mongolia automated system places restrictions on storing different radio navigation aids with same identification in 1 FIR which makes it difficult for our operators to prepare NOTAM, Flight plan and ATS Messages associated with these NDBs.

2.3 Even though we can make some changes to our systems with the help our provider, Avitech Company of Germany, the fact that operators, air traffic controllers and pilots could confuse them with each other increases the risk of error. Nowadays, the transition to digital Aeronautical Information Management is inevitable and countries with 1 FIR and introducing digital database and automated system could have same problem.

3. CONCLUSION

3.1 In conclusion, Mongolia proposes a new provision that specifies coded designators shall not be duplicated within same FIR in addition to the Annex 11, Appendix 2, 2.2.2 which requires that coded designators of radio navigation aids operating in the same frequency band shall not be duplicated within 1100 km (600 NM) of the location of the radio navigation aid concerned.

4. ACTION BY THE MEETING

4.1 The meeting is invited to note the information contained in this Paper.

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