International Civil Aviation Organization

THE FIFTH MEETING OF AERONAUTICAL TELECOMMUNICATION NETWORK (ATN) IMPLEMENTATION CO-ORDINATION GROUP OF APANPIRG (ATNICG/5)

Kuala Lumpur, Malaysia, 31 May – 4 June 2010

Agenda Item 5: **Review State's ATN/AMHS Implementation/Operational activities, issues and test results for BBIS Network**

ATN/AMHS IMPLEMENTATION ACTIVITIES IN THE REPUBLIC OF KOREA (ROK)

(Presented by Republic of Korea)

SUMMARY

This information paper provides the ATN/AMHS implementation status and activities in ROK

1. Introduction

1.1 The ATN/AMHS implementation activities in the ROK have been actively progressed and international circuit will be connected in late 2010 through appropriate mutual tests with neighboring countries.

2. Background

2.1 According to the ICAO Air Navigation Plan in the Asia and Pacific region (Doc 9673), The ROK formed the task force for the project to implement ATN/AMHS through coordination and cooperation with neighboring countries and established the National plan to implement ATN/AMHS with the aim of completing the project by the end of 2010

3. Technical Standard Application

3.1 ATN/AMHS in the ROK applied to such technical standards as contained in the following documents.

a. ICAO ANNEX 10 Volume III CHAPTER 3 'Aeronautical Telecommunication Network'
b. ICAO Aeronautical Telecommunication Network Manual (Doc 9705, Edition 3)
c. ICAO Naming Register (ACP, AMHS Addressing Scheme: CAAS)

4. The ROK's ATN/AMHS

4.1 ATN Router will be dual systems and is currently being tested for the interconnection with Message Transfer Agent(MTA).

4.2 Server, storage, switch and network for AMHS are deployed as the dual systems and the program applied to ICAO Doc9705 Edition 3 is installed at the AMHS. It also formed the cluster to become automatically transferred in case of abnormal condition.

4.3 Domestic sections will be operated by connecting to the conventional AFTN server and accessing to terminals.

5. International technological cooperation

5.1 The progress of ATN/AMHS implementation with CHINA

5.1.1 ROK and CHINA held the 1st ATN/AMHS Technical Cooperation Meeting in Beijing in November 2007 and reached an agreement to implement ATN/AMHS between the two countries by the end of 2010. In this regard, both countries jointly decided to draft and implement PICS and TMC.

5.1.2 At the 2nd China-Korea ATN/AMHS Working-level Cooperation Meeting in Beijing in December 2008, both countries decided to connect ATN international circuit by June 2010 and signed the TMC.

5.1.3 The 3rd ATN/AMHS Technical Cooperation Meeting held in Shenyang, China in June 2009 determined to commence the operation of ATN/AMHS in late 2010 after completing the installation of ATN/AMHS. ATN international circuit will be connected by 64Kbps digital links.

5.2 The progress of ATN/AMHS implementation with JAPAN

5.2.1 At the 2nd Meeting of ROK-JAPAN Working Group for CNS/ATM Systems held in Tokyo in June 2006, the two countries basically agreed to adopt and fulfill the ATN/AMHS Implementation Plan.

5.2.2 By holding a working-level cooperation meeting for the ATN/AMHS implementation in Tokyo, Japan during September 2007, the ROK and JAPAN agreed to implement ATN/AMHS and complete the test operation by the end of 2010. To this end, both countries decided together to draft and implement PICS and TMC.

5.2.3 The 3rd Meeting of ROK-JAPAN Working Group for CNS/ATM Systems held in Seoul during January 2009 decided to push forward this already agreed ATN/AMHS implementation schedule by late 2010, but at the same time shared the recognition of possible delay in the schedule of ATM/AMHS implementation plan in consideration of Japan's internal matter.

5.2.4 At the 2nd working-level cooperation meeting for the ATN/AMHS implementation held in Tokyo in April 2009, the ROK proposed applying the ICAO Doc 9705 Edition 3 and CAAS to both countries, which is currently being under consideration.

6. Future Plan

6.1 The ROK will designate the ATN international circuit (64Kbps digital links) in June 2010 according to the agreed schedule, and go through test operation by conducting connection testing between Beijing and Seoul to officially operate the service from the end of 2010.

6.2 According to the ICAO Air Navigation Plan in Asia Pacific Region, the ROK will continuously coordinate and cooperate with JAPAN for ATN/AMHS implementation between Seoul and Fukuoka.

7. Conclusion

7.1 The ROK and CHINA plans to implement the ATN/AMHS international network service in early 2010, while transition from AFTN to ATN/AMHS will be phased in for domestic sections by 2015.

8. Action by the meeting

8.1 The meeting is invited to note the current activities and the future plan of ATN/AMHS implementation in the ROK.

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Attachment A

IMPLEMENTATION STATUS REPORT OF THE REPUBLIC OF KOREA

■ **Contract signed :** 2008.10

■ **CDR(Design Review) completed :** 2009.02

■ **ATN Router FAT(Factory Acceptance Testing) :** 2009.02

■ **Installation Site :** 2009.06

■ **Training :** 2010.08 ~ 10

■ **Test schedule**

☐ **Bilateral agreement worked out with reciprocal ends :** 2008.12(with China)

☐ **Test carried out :** 2010.07 ~ 11(with China)

■ **Transition AFTN/AMHS :** 2010.12(with China)

■ **Setting up of AMHS UA's :** TBD

■ **Final Acceptance Contract Sign off :** TBD

■ **AMHS transition :** TBD

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