



International Civil Aviation Organization

**COM Co-ordination Meeting**

6 – 7 March 2013, Kunming, China



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**Agenda Item 4: Discuss implementation plan of ATN/AMHS between States including agreed target operational date**

**DISCUSSION ON ATN/AMHS TEST AND IMPLEMENTATION  
BETWEEN CHINA AND NEPAL**

(Presented by China)

**SUMMARY**

China proposed to initiate technical test and implementation of ATN/AMHS service between China and Nepal. Some technical concerns and relevant proposal have been presented in this paper.

**1. INTRODUCTION**

1.1 China is one of the BBIS States under the ATN/AMHS implementation plan of ASIA/PAC region. Beijing ATN/AMHS system was installed in June 2008 and put into operation in June 2011 .

1.2 In accordance with the regional plan, China needs to establish an ATN/AMHS BIS connection with Nepal. China would like to coordinate closely with Nepal to initiate the related technical test and implementation of the new connection in this year.

**2. DISCUSSION**

2.1 The VSAT link has been operated between China and Nepal for AFTN traffic, the speed of the existing link is just 300bps. To evaluate the performance of ATN/AMHS using such a low speed VSAT link, our technical team has conducted a test in China's VSAT laboratory. The test result shows 300bps is not sufficient for AMHS communication, a mass of timeout failures were raised

2.2 Considering the experience of test and operation of AMHS system with other neighboring states, China would like to suggest establishing a new 64Kbps landline for upcoming ATN/AMHS connection between China and Nepal. The existing VSAT circuit will be retained as a backup connection after the new AMHS service put into operation.

2.3 To support IP-based AMHS connection with other BISs, China has planned to install network security equipments for ATN/AMHS system in Beijing ,it is planned to be completed in Q3 2013. To expedite the progress of AMHS implementation, China would like to propose that the technical test for IP-based AMHS be conducted between Nepal AMHS and the development AMHS system in China's ATN laboratory as early as possible, if it is available for Nepal's circumstance. When Beijing's operational ATN/AMHS system are ready for IP-based test, a quick inter-operability test could be conducted in an efficient manner, then the two parties can move forward to per-operational test using the operational AMHS systems.

2.4 China would like to propose a draft TMC(Technical memorandum of cooperation) between China and Nepal for ATN/AMHS implementation, the file can be found in Attachment 1.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- (a) review the draft TMC at placed at attachment; and
- (b) note the technical difficulties and discuss the relevant proposal provided by China.

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