



International Civil Aviation Organization

**EIGHTEENTH MEETING OF THE COMMUNICATIONS/NAVIGATION  
AND SURVEILLANCE SUB-GROUP (CNS SG/18) OF APANPIRG**

Asia and Pacific Regional Sub-Office, Beijing, China  
(21 – 25 July 2014)

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**Agenda Item 4:           Aeronautical Fixed Service (AFS)**

**CHINA AFS IMPLEMENTATION STATUS REPORT**

(Presented by China)

**SUMMARY**

This information paper provides the ATN/AMHS implementation status in China and the AFS circuits of China-Myanmar and China-Nepal upgrade progress.

**1.       INTRODUCTION**

1.1           According to the ATN transition and implementation plan of ICAO, China conducted ATN/AMHS test and installation in Beijing Network Control Center(NCC) since 2008. At present, ATN/AMHS service is available in Beijing, China.

1.2           To improve the quality of AFS communication service with neighboring states, China coordinate with Myanmar and Nepal to establish new lease lines and update the existing VSAT system.

**2.       DISCUSSION**

ATN/AMHS TEST AND OPERATION

2.1           A new ATN/AMHS 64Kbps connection between Beijing, China and Seoul, Republic of Korea became operational in 1st June 2011. the original AFTN circuit was retained as backup connection.

2.2           The pre-operational test between China and India has been completed successfully in August 2013. During the test, the real AFTN traffic was duplicated and exchanged through the ATN/AMHS connection. The inter-operability test between Beijing, China and Mumbai, India was started in 2011, a new 64Kbps landline was established between Beijing and Mumbai for the test. The ATN/AMHS between India and China will commence in 2014.

2.3 After the COM co-ordination meeting held in Chendu, China from 18-19 February, 2014, China and Nepal started to prepare the ATN/AMHS test. Both sides revised the draft TMC according to the feedback from the system manufacturers. The test procedure and technical details of the system were confirmed by both parties. The TMC will be signed after approved by ATMB and CAAN.

#### AFS CIRCUIT UPDATE

2.4 In order to improve the quality of communication service, China and Myanmar agreed to establish a new 2M lease line between Beijing and Yangon to support both AFS data and ATS voice communication. Considering the situation of current C-band VSAT terminal, it was agreed that the existing equipment is going to be replaced by a new IP based VSAT system by 2014. Based on the discussion in the COM co-ordination meeting held in Chendu, China 18-19 February 2014, the lease line was established and tested, the associated equipment was installed in June, 2014. Both parties are cooperating in system configuration and test. After further discussion on the technical solution of the VSAT system, procurement of new VSAT equipment is under way.

2.5 China and Nepal agreed to establish a new lease line between Beijing and Kathmandu, and replace the existing VSAT system with an IP based VSAT system. Both parties and the telecommunication service providers are working on the project

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

3.1 The meeting is invited to note the ATN/AMHS implementation and AFS circuit update status in China.

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