

*INTERNATIONAL CIVIL AVIATION ORGANIZATION***TWENTY-SECOND MEETING OF THE
ASIA/PACIFIC AIR NAVIGATION PLANNING AND
IMPLEMENTATION REGIONAL GROUP (APANPIRG/22)****Bangkok, Thailand, 5-9 September 2011****Agenda Item 3: Performance Framework for Regional Air Navigation Planning
and Implementation****3.4 CNS/MET****ATN/AMHS IMPLEMENTATION STATUS REPORT**

(Presented by India)

SUMMARY

This paper presents up-to-date information about the status of ATN/AMHS implementation in India. As part of ATN Backbone Network connections in Asia Pacific Region, a major step has been achieved with the start of AMHS regular operational service between Mumbai and Singapore.

1. INTRODUCTION

1.1 In accordance with ICAO Asia/Pacific Regional Plans, Mumbai in India is one of the eight designated backbone sites of the Aeronautical Telecommunication Network (ATN) in Asia Pacific Region and to have BBIS interconnections with Singapore, Beijing and Bangkok.

1.2 India completed its AMHS system installation at Mumbai in April 2008 and since then had been taking up pre-operational trials on AMHS interconnection with neighbouring BBIS and BIS States as and when readiness information is received from them.

1.3 Following successful completion of AMHS pre-operational trials, regular operations with Singapore was commissioned with effect from 23 March 2011. The commencement of AMHS interconnection between Mumbai and Singapore is a significant step that guarantees reliable international interoperability for the exchange of Flight Plans and other aeronautical messages. The performance of the circuit is satisfactory.

2. DISCUSSION

2.1 Interoperability tests on AMHS interconnection between Mumbai and Beijing (BBIS) was recently completed. The test results conformed to the defined procedures. Now, both the administrations are making efforts to commence preoperational trials for commissioning the circuit at the earliest. The regular operation is expected to commence in the early 4th quarter of 2011.

2.2 The preoperational trials for AMHS interconnection between Mumbai and Karachi (BIS) are also in final phase of completion and efforts are being taken for commencing regular operation in the 4th quarter of 2011.

2.3 In the case of AMHS interconnection between Mumbai and Muscat (Oman), operation is presently carried out on AFTN over TCP/IP through AMHS gateway. However, efforts are being made to coordinate with Oman Civil Aviation Authorities for commencing AMHS trials.

2.4 India is keen to commence AMHS trials immediately with Thailand (BBIS) and other BIS stations such as Sri Lanka, Nepal, Bhutan and Kenya. However, readiness is awaited from these States. These States are requested to provide update on system installation and their readiness to commence trials. India is willing to share its experiences for conducting smooth trials.

2.5 Besides upgrading the existing AMHS application software at Mumbai, action has been simultaneously initiated to install software for AMHS AMC files import function and New FPL-2012 Format to implement ICAO Amendment-1 of PANS-ATM Doc-4444. These software upgrades will be completed before the end of October 2011.

2.6 As more and more AMHS systems become operational, there is a need to efficiently manage the Global AMHS/AFTN Networks and their addressing/routing schemes. As regards AMHS at Mumbai, AMC files import function software upgrade is expected to address the issue.

2.7 India has also planned to implement domestic AMHS system at Delhi, Chennai and Kolkata using TCP/IP connectivity which has the considerable benefit of being a commercial-off-the-shelf and readily available architecture. The proposal is in line with ICAO plan of supporting global harmonization of ATN over IPS as specified in DOC 9880. Action for tendering process is being initiated.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the progress in ATN/AMHS Implementation in India.
- b) impress upon other BBIS/BIS States to complete the implementation for compatible operation in line with ICAO APAC Regional Implementation Plan.