



International Civil Aviation Organization

The Second Meeting of the South Asia/Indian Ocean ATM Coordination Group (SAIOACG/2)

Bangkok, Thailand, 22–25 May 2012

Agenda Item 4: Implementation of CNS/ATM Systems

UPDATE ON AMHS TRIALS AND AIDC TESTING

(Presented by Airports Authority of India)

SUMMARY

This paper presents the status of AMHS trials and AIDC testing in India.

This paper relates to –

Strategic Objectives:

A: *Safety* – Enhance global civil aviation safety

GPI-22 Communication infrastructure

1. INTRODUCTION

This Paper presents an update to the participants on the AMHS trials and AIDC testing that are being initiated by India in the recent past.

2. DISCUSSION

2.1 AMHS (ATS Message Handling System)

2.1.1 Installation and testing of Mumbai AMHS {Comsoft a German equipment} was completed during March – May, 2008.

2.1.2 After Installation and testing, Mumbai had to keep the equipment switched off for several months as no other State was ready with their AMHS system to conduct the testing and trial with Mumbai system. The States which were not ready with their AMHS Systems in early 2010 were connected to COMSOFT system on AFTN ports during March – April, 2010.

2.1.3 The Mumbai-Singapore link was established in September 2009 and interoperability tests were carried out in October, 2009, and the circuit was put in parallel operation on 1st December, 2009. After manually updating the first AMC Table in September, 2010, parallel operation continued up to 21st March, 2011 and the circuit was commissioned on 22nd March, 2011.

2.1.4 The Mumbai – Karachi AMHS link was established in September, 2010 and interoperability tests were successfully carried out in November, 2010. Presently, India is waiting for Pakistan's readiness to commence Parallel Operations and Commissioning of Circuit.

- 2.1.5 The 64 KBps ATN Link between Mumbai – Beijing was established in March, 2011. The X.25 and the IRDP Connection on ATN Router was established in April, 2011. Due to some software issues, testing is still in progress and India expects that these issues would be resolved after software up gradation at Beijing.
- 2.1.6 India is presently having bilateral talks with Thailand (Aerothai) for ATN Connectivity. It is expected that interoperability tests would be carried out shortly on establishing connectivity. Airports Authority of India is pursuing AMHS Connectivity with Kenya and Oman and hope to achieve the same at the earliest.

2.2 AIDC (ATS Inter-facility Data Communication)

- 2.2.1 India is presently in the process of modernization of its ATS infrastructure. They have three major suppliers namely, Raytheon (Autotrac-3) for Mumbai, Chennai and New Delhi, Selex for Hyderabad and Bangalore and Indra (AIRCON 2100) for Trivandrum, Ahmedabad, Nagpur, Mangalore and Varanasi. Kolkata would also be brought into the loop by 2012.
- 2.2.2 38 ATC Centres have been interconnected with one another across the different suppliers. The AIDC testing results are very much encouraging.
- 2.2.3 Mumbai with Ahmedabad, Delhi and Nagpur, the AIDC trial operations have commenced and are continuing. New Delhi had completed testing with Varanasi and Nagpur. Trial operations are to commence from 01st June, 2012.
- 2.2.4 AIDC trial operations had commenced between Mumbai and Chennai on 5th March, 2012. Except for a few minor software issues the results are satisfactory and expected to commission it shortly.
- 2.2.5 Talks are in progress for connecting Kuala Lumpur, Karachi, Muscat and Male with various Indian centres for improved ATC Co-ordination.
- 2.2.6 Male has agreed to commence the testing and followed by trial with effect from July 2012 in the recently concluded BOBASIO meeting/02.
- 2.2.7 Mumbai is in communication with Muscat for establishing connection. Once the inter-connectivity is through with Mumbai the test would begin immediately.
- 2.2.8 Chennai is in dialogue with Kuala Lumpur for establishing inter-connectivity and is awaiting response from them.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
- a) note the information contained in this paper;
 - b) encourage states to participate in AMHS trials and AIDC testing; and
 - c) discuss any relevant matters as appropriate.

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