



International Civil Aviation Organization

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

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

**Agenda Item 3:**

**Review:**

3.2) Outcome of Sub-group Chairpersons Meeting Follow-up  
actions on reports of the CNS/MET SG/17

**Agenda Item 6:**

**Navigation**

6.1) Updates on national PBN implementation plan and PBN  
implementation issues

**PROGRESS ON IMPLEMENTATION OF ATN/AMHS  
AIDC, ADS-B AND PBN**

(Presented by Bangladesh)

**SUMMARY**

This paper presents the updated information and implementation status of ATN/AMHS, AIDC, ADS-B and PBN etc. in Bangladesh.

**1. INTRODUCTION**

1.1 In order to comply with the decisions/ conclusions given in CNS/MET SG/17, 50<sup>th</sup> DGCA and APANPIRG/24 meeting, Civil Aviation Authority of Bangladesh took several steps for the improvement in the field of CNS. The existing AFTN/AMSS of Bangladesh was upgraded to enable transmission/reception of ICAO New Flight Plan messages. But to meet the future requirements of ATM, CAAB installed ATN/AMHS system in 2012. The interoperability test of ATN/AMHS between Dhaka and Bangkok is going on and a bilateral agreement is signed. Connectivity between Mumbai and Dhaka has already been done. Tests preparation between Mumbai and Dhaka is going on. Domestic test operation already started. The system includes AIDC facility.

1.2 As the future surveillance technology, Civil Aviation Authority of Bangladesh will install ADS-B to cover whole Bangladesh airspace by 2016. Following the PBN implementation roadmap, PBN approach procedure for Hazrat Shahjalal International Airport is developed. It will be published very soon.

## **2. DISCUSSION**

### **2.1 Installation of ATN/AMHS in Bangladesh:**

2.1.1 Civil Aviation Authority of Bangladesh already installed ATN/AMHS system. After installation, India and Thailand were informed for the connectivity with Mumbai and Bangkok respectively. Meanwhile, Thailand tested the connectivity between Dhaka and Bangkok, which was found satisfactory. Now a bilateral agreement is signed. Accordingly interoperability test is going on and after successful IOT remaining tests shall be done. Connectivity between Mumbai and Dhaka has already been done. Tests preparation between Mumbai and Dhaka is going on and Bangladesh hopes that the ATN/AMHS connectivity with these two countries will be established very soon.

2.1.2 The ATN/AMHS system of Bangladesh includes AIDC and we are planning to automate our ATM system. Once the ATM system is automated, we will be able to interface AIDC with ATM. The AIDC will enable us to connect with India, Myanmar and other neighboring countries.

### **2.2 Nomination of WRC focal point.**

2.2.1 As per the requirement of ICAO, Bangladesh nominated focal point for World Radio Communication and ICAO APAC office has already been informed about the nomination.

### **2.3 Installation of ADS-B:**

2.3.1 We hope ADS-B will be installed in Bangladesh by 2016 covering whole Bangladesh. After installation, ADS-B data will be shared with neighboring countries to support ATC operation and enhance aviation safety.

### **2.4 Implementation of PBN Approach:**

2.4.1 The RNAV(GNSS) RWY-14 Approach with Baro-VNAV for Hazrat Shahjalal International Airport, Dhaka already flight validated in May 2014. ATC Training on PBN is arranged in August 2014. The training will be conducted by Asia and Pacific Regional Sub-Office. We hope to publish the approach in September 2014, following the AIRAC cycle.

2.4.2 RNAV(GNSS) RWY-32 Approach for Hazrat Shahjalal International Airport, Dhaka already designed. Two approaches for another two International Airports will be designed soon. We hope that these three approaches will be evaluated, flight validated and published together by 2015. Designing for RNAV SIDs and STARs will be started in 2015 with a target to publish it in 2016.

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

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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