



ICAO

*International Civil Aviation Organization***Twenty Eighth Meeting of the Communications/  
Navigation and Surveillance Sub-group (CNS SG/28)  
of APANPIRG***Bangkok, Thailand, 01 July -05 July 2024*

**Agenda Item 11:** Capacity Building, including Human Factors and Air Traffic Safety Electronics Personnel (ATSEPs) related training

## **IMPLEMENTATION AND OUTCOMES OF THE CNS&ATM WORKSHOP AND TRAINING**

(Presented by China)

### **SUMMARY**

This paper presents the implementation of CNS&ATM workshop and training organized by APAC ANSP Committee work stream1.

## **1. INTRODUCTION**

1.1 The establishment of APAC ANSP committee (AAC) was agreed on the Action Item 21 of the 57th DGCA meeting in 2022. The AAC is composed of ANSPs, CANSO, IATA and other recognized bodies of ICAO and it aims to strengthen their collaboration and cooperate in the implementation of regional Air Navigation Services (ANS) initiatives including the ICAO Asia/Pacific Seamless ANS Plan.

1.2 The first Meeting of the Asia and Pacific ANSP Committee (AAC/1) was hosted by the ICAO APAC at the Regional Office in Bangkok, Thailand, on 17-18 April 2023. It agreed to adopt a frame work to organize the work of the Committee into four work streams based on areas of priority on the meeting.

1.3 The first work stream (WS1) is “Step up investments in ANS capacity and capabilities and share requirements and best practices in the procurement of ANS systems” . WS1 is led by China and Thailand, the membership comprises 9 Member States/Special Administrative Regions/International Organizations, including: China, Hong Kong, China, India, Macau, China, New Zealand, Singapore, Thailand, Vietnam and CANSO.

1.4 WS1 drafted nine (9) tasks which had been approved in the online AAC meeting on June 15th,2023. The description of task 2 is to handle capacity building and technical assistance among ANSPs. And the deliverable for task 2 is a program involving ANSPs or experts to provide the training and/or assistance according to the collaboration plan..

1.5 This paper presents some details about the CNS&ATM workshop and training, which was held in Nanjing, China from May 13 to May 24 2024 as implementation of task 2 under.

## **2. DISCUSSION**

### ***Implementation***

2.1 The workshop and training was co-hosted by the Air Traffic Management Bureau (ATMB) of CAAC and industrial representatives with one week workshop and one week training.

2.2 28 participants joined the workshop and training from 6 States/Special Administrative Regions, including Hong Kong China, Laos, Maldives, Singapore, Thailand and Vietnam.

2.3 A total of 18 experts had given lectures in the workshop and training with warm discussion from participants.

2.4 23 topics in the workshop and training included: Overview of CNS&ATM in China, Strategy and guarantee on CNS technology and equipment construction, Operation and Maintenance System of the CAAC ATMB CNS Equipment, Training Framework and Competency Management of the CNS Technician, National Flow Management System of China, Application and Development of Datalink, Introduction and discussion of the ATM Automation System, GBAS, mode-S Radar/MLAT, Big Data, SWIM, TBO, AI and so on.

2.5 During the workshop, participants also visited the Qingpu ACC and Pudong Tower of East Regional ATMB.

### ***Outcomes***

2.6 The questionnaire survey on the training shows that: All participants found the content of the workshop and training very helpful.

2.7 In the workshop, the participants focused more on the topic of Operation and Maintenance System of the CAAC ATMB CNS Equipment and Training Framework and Competency Management of the CNS Technician.

2.8 In the training, the participants showed great interest in new technologies such as Digital Twin, Remote Tower, AI and 5G AeroMACS, which fits with the current popularity of these topics.

2.9 All participants hoped more workshops and trainings and further cooperation projects among ANSPs.

2.10 This workshop and training is a good start for the APAC ANSPs to strengthen technical exchange and cooperation under the cooperation framework of the AAC.

2.11 Participants made the project more meaningful by sharing knowledge and experience with other ANSP's representatives, which will be helpful for ANSPs to work together, to promote the implementation of APAC Seamless ANS plan.

**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 matter as appropriate.

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