



## 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**
**3.5: Other Air Navigation matters**
**CAPACITY DEVELOPMENT FOR TRANSITION TO  
THE NEW CNS/ATM SYSTEMS IN CAMBODIA AND LAO PDR**

(Jointly prepared and presented by Cambodia and Lao PDR)

**SUMMARY**

This Information Paper provides information on activities for capacity development for transition to the new Communications, Navigation, Surveillance and Air Traffic Management (new CNS/ATM) Systems in Cambodia and Lao PDR, which will be compatible with those being defined and specified by International Civil Aviation Organization (ICAO).

*Strategic Objectives:*

- A: Enhance the capability of civil aviation personnel in implementing the new CNS/ATM.*
- C: Harmonizing the system implementation within Cambodia and Lao PDR.*

## 1 INTRODUCTION

1.1 The New CNS/ATM Systems Master Plan Study of Indochina countries was completed with the cooperation of the Japan International Cooperation Agency (JICA) in June 2010. In order to realize smooth transition to the New CNS/ATM Systems, the government of Japan decided to support the three countries through the technical cooperation project “The Project for Capacity Development for Transition to the New CNS/ATM Systems in Cambodia, Laos and Vietnam”. This Project was commenced in January 2011, and CAAs of the three countries have made good progress through close cooperation with JICA Experts.

1.2 The Project is designed to improve safety and efficiency of flights and to enhance airspace capacity in Eastern Mekong Region as the Project Overall Goals at the end of 2015. In order to achieve these Goals, the Project addresses three (3) core areas of activities (Project Outputs) as given below:

Output 1: development of capacity for establishing Performance Based Navigation (PBN) flight procedures;

Output 2: development of training system for air traffic controllers and air navigation technical staff on the new CNS/ATM systems; and

Output 3: strengthening of safety oversight capability by the introduction of Safety Management System (SMS) in air navigation services.

## **2. PROJECT ACTIVITIES IN LAO PDR**

In Lao PDR, the following activities have been conducted since January 2011, and are planned for a foreseeable future (short-term program).

### **2.1 Development of capacity for establishing flight procedures design**

- Basic Training on Management of WGS-84 Data Survey and Data Quality for Civil Aviation in Lao PDR was conducted in June 2011 to analyze the existing WGS-84 survey data in Lao PDR. WGS-84 survey will be carried out at Vientiane and Pakse international airports in 2011 and 2013 respectively, and WGS-84 database will be developed;
- Lao PBN Roadmap was reviewed by ICAO FPP and COSCAP “PBN Implementation Workshop” in June 2011, and it will be updated regularly, including assessment of ground equipment and satellite navigation, through the Project; and
- Basic PANS-OPS Flight Procedure Design Training will be held for three weeks in September in Vientiane, where officials of three countries will participate. This basic training is designed to assist three country officials to acquire basic skills and knowledge which are required to learn PBN flight procedure design technique. Subsequently, PBN-related training courses, including OJT, will be organized under the Project, and Lao officials will actively participate in these training in order to implement PBN in Lao PDR in accordance with our PBN Roadmap as well as APAC Regional Roadmap in a harmonious manner with neighboring countries

### **2.2 Development of training system**

- Instructors training of New CNS/ATM Systems is under planning;
- Lao DCA has begun activities to design training courses and develop training course materials with the assistance of JICA Experts; and
- Lao DCA will prepare plans of training courses.

### **2.3 Safety oversight capability by the introduction of Safety Management System (SMS) in air navigation services**

- Lao DCA has begun activities to develop State Safety Program (SSP) and regulations on Safety Management System (SMS) in air navigation services (ANS);
- Lao DCA, as the civil aviation regulator, will oversee SMS manual and implementation plan by the ANSP, namely Lao ATM (LATM); and
- Lao DCA will evaluate and certify LATM SMS in due course.

### **3. PROJECT ACTIVITIES IN CAMBODIA**

In Cambodia, the following activities have been conducted since January 2011, and are planned for foreseeable future (short-term programme).

#### **3.1. Development of capacity for establishing flight procedure design**

- Basic Training on Management of WGS-84 Data Survey and Data Quality for State Secretariat of Civil Aviation of Cambodia was conducted in June 2011 to analyze the existing WGS-84 survey data in Cambodia. WGS-84 data will be surveyed at Phnom Penh International Airport from January – March 2012 and 2013 respectively, and WGS-84 database will be developed;
- Cambodia PBN Roadmap was presented to ICAO PBN Task Force Eighth Meeting in India.
- Basic PANS-OPS Flight Procedure Design Training will be held for three weeks in September in Vientiane, where officials of three countries will participate. This basic training is designed to assist three country officials to acquire basic skills and knowledge which are required to learn PBN flight procedure design technique. Subsequently, PBN-related training courses, including OJT, will be organized under the Project, and Cambodia officials will actively participate in these training in order to implement PBN in Cambodia in accordance with our PBN Roadmap as well as APAC Regional Roadmap in a harmonious manner with neighboring countries.

#### **3.2. Training Plan and Arrangement**

- Instructors training of New CNS/ATM Systems is under planning;
- PANS-OPS candidates have been selected to participate the basic PANS-OPS training in Vientiane;
- Pre basic PANS-OPS introduction has been conducted for selected candidates before joining basic PANS- OPS course in Vientiane; and
- Two candidates will be selected after having successful completion of basic PANS-OPS course in Vientiane to participate JICA RNAV training course in Japan from 05 February to 10 March, 2012.

### **4. ACTION BY THE MEETING**

4.1 The meeting is invited to note this content and the progress of “The Project for Capacity Development for Transition to the New CNS/ATM Systems in Cambodia, Laos and Vietnam” supported by the Government of Japan to assist the three countries towards the new CNS/ATM implementation.

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