



International Civil Aviation Organization

**THE ELEVENTH MEETING OF PERFORMANCE BASED NAVIGATION
IMPLEMENTATION COORDINATION GROUP (PBNICG/11)**

(Bangkok, Thailand, 27-29 March 2024)

Agenda Item 4: States' PBN implementation progress and the challenges faced by the States and lessons learnt.

UPDATE ON PBN IMPLEMENTATION IN CHINA

(Presented by China)

SUMMARY

This paper presents the PBN implementation status in China and the transition of RNP APCH Chart identification.

1. INTRODUCTION

1.1 PBN Road Map of China

“PBN Road Map of China” was issued in 2009. It determined the steps by which PBN can be gradually implemented in China. According to this road map, China had published the PBN procedures for all existing airports by the end of 2016. All new airports shall provide PBN implementation services after that.

1.2 To improve overall operational efficiency, capacity, accessibility and safety standards, CAAC and its regional administrations are continuing the efforts for harmonized PBN implementation.

2. DISCUSSION

2.1 PBN Implementation status

2.1.1 Terminal / Approach Implementation

By 21st March, 2024, China had implemented PBN SIDs, PBN STARs and PBN approach procedures for 254 airports. The following tables represent the detailed status.

Table 1 PBN Implementation Status- Approach

Total number of airports		Total number of instrument runway ends	
264		592	
International	Domestic	International	Domestic
74	190	210	382
PBN approach airports			Total number of airports without PBN approach procedures
LNAV/VNAV	LNAV ONLY	RNP AR	10
231 (Total) 70 (International airports) 161(Domestic airports)	9 (Total) 5(International airports) 4 (Domestic airports)	32 (Total) 12 (International airports) 20 (Domestic airports)	

Table 2 PBN Implementation Status- Terminal

Total number of airports with PBN SIDs		Total number of airports with PBN STARs	
254		254	
International	Domestic	International	Domestic
74	180	74	180

2.1.2 En-route Implementation

By 21st March, 2024, 866 ATS routes had been implemented PBN operation in China as follows.

Table 3 PBN Implementation Status- En route

Total number of routes			Total number of PBN operation routes	Total number of conventional routes
1132			866	266
RNAV 1	RNAV 2	RNP 1	RNP 4	RNP 10
60	642	68	108	3

2.1.3 **Continuous Descent Operations (CDO)- Continuous Climb Operations (CCO)**

By 21st March, 2024, there are 12 international airports in China had implemented CDO/CCO operations.

2.2 **Implementation status of the Regional Transition Plan for RNP APCH Chart Identification from RNAV to RNP**

As per the regional transition plan for RNP APCH chart identification from RNAV to RNP, China has achieved its initial targets in 2022 and all new RNP APCH charts are titled with “RNP RWY xx”.

3. **ACTION REQUIRED BY THE MEETING**

The meeting is invited to:

- a) Note the progress of PBN implementation in China; and
- b) Discuss any relevant matters as appropriate.
