



International Civil Aviation Organization

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

Bangkok, 27 - 29 March 2024

Agenda Item 3: Implementation status of the Regional Transition Plan for RNP APCH Chart Identification from RNAV to RNP

Agenda Item 4: States' PBN Implementation Progress and the challenges faced by the States and lessons learnt

PBN IMPLEMENTATION PROGRESS IN PAPUA NEW GUINEA
(Presented by Papua New Guinea)

SUMMARY

This paper presents the updates on Papua New Guinea's PBN implementation including the planned changes for RNP APCH Chart Identification from RNAV to RNP

1. INTRODUCTION

1.1 PNG developed its PBN Plan after consultations with industry in 2012. The plan has assisted in providing a consented platform on the progressive implementation of PBN with the goal to improve on domestic airspace capacity but more importantly accessibility to a significant amount of local remote aerodromes in PNG.

1.2 PNG followed priorities to implement PBN in accordance with ICAO Assembly Resolution A37-11 and successfully achieved the initial targets set in 2016. Under the initial 2012 PBN Implementation Plan which will be updated later this year, now the priority is to progress RNP APCH Designs Phase 3 developments in alignment with targets set by ICAO for the region.

1.3 PNG's GNSS APCH Designs implementation Phase 1 for 31 aerodromes commenced in 2015 to publication of 20 RNP APCH procedures in September 2019 with Phase 2 for 7 aerodromes commencing in 2020 to publications in Oct 2023 and June 2024. Phase 3 for 9 aerodromes initially planned for Q4 2023 is likely to commence in Q4 2024.

2. DISCUSSION

Regional Transition Plan for RNP APCH Chart Identification from RNAV to RNP)

2.1 The process to change identification of PBN instrument flight procedure approach charts from RNAV to RNP will be completed by the November 2024 AIRAC amendment of PNG's AIP.

2.2 The transitions commenced with the publication of the initial 20 RNP APCH procedures in September 2019 to include the 7 approved for publication in 2023-2024 with a follow up AIC to be published to provide information to stakeholders of the expected changes.

PBN SIDs and STARs

2.3 Port Moresby PBN SIDs and STARs were developed during the GNSS APCH Design Phase 1 is published in PNG AIP however implementation is currently delayed due to ATS training and the development of an ATM flow control software. Full implementation is expected to be completed by October 2024.

PBN Current Status

2.4 PNG commenced with decommission seven of ten NDB's in September 2019 soon after publication of the GNSS APCH Design Phase 1 procedures with the last remaining three NDB's to be replaced with new RNP APCHs or GPS Arrivals by end of Q2/Q3 2024.

PBN Implementation and Challenges

2.5 PNG's ANSP NiuSky Pacific Limited has fully utilised its User State status to attend courses offered virtually by ICAO APAC FPP since 2021. However, the absence of interactive in-person classroom atmosphere including open discussions with course instructors is clearly evident in our attendee's depth of FPD knowledge after completing APAC FPP courses. NSPL intends to improve on in-person training in the field of IFP design and PBN training with more active participation in ICAO APAC FPP and regional meetings throughout 2024.

2.6 PNG completed the GNSS APCH Design Phase 2 ground and flight validations in September 2022 at the height of COVID-19 travel restrictions with an alternative means of compliance established with IFPD Organization and CASA PNG through an MOU with PNG ANSP NiuSky Pacific Limited.

2.7 PNG terrain is both an advantage for new GNSS based PBN IAP and a disadvantage with a good percentage of legacy aircraft still active in PNG's domestic fleet. The absence of ICAO APAC and APAC FPP training assistance in PBN Operations Approval and Flight Validation is requested for regional attention in 2024 - 2025.

3. ACTION REQUIRED BY THE MEETING

3.1 The meeting is invited to: amend as appropriate

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