



ICAO

*International Civil Aviation Organization*

**Tenth Meeting of the Air Traffic Management Sub-Group  
(ATM/SG/10) of APANPIRG**

Video Teleconference, 17 – 21 October 2022

---

**Agenda Item 6: ATM Coordination (Meetings, Route Development, Contingency Planning)**

**PBN ROUTES IN MONGOLIA**

(Presented by Mongolia)

**SUMMARY**

This paper presents Mongolia has established PBN routes (RNAV 5) in Mongolian airspace and will be utilized on 6 October in 2022 in accordance with Manuals related with PBN (9992, 9613 and PANS-OPS 8168 Volume I )

**1. INTRODUCTION**

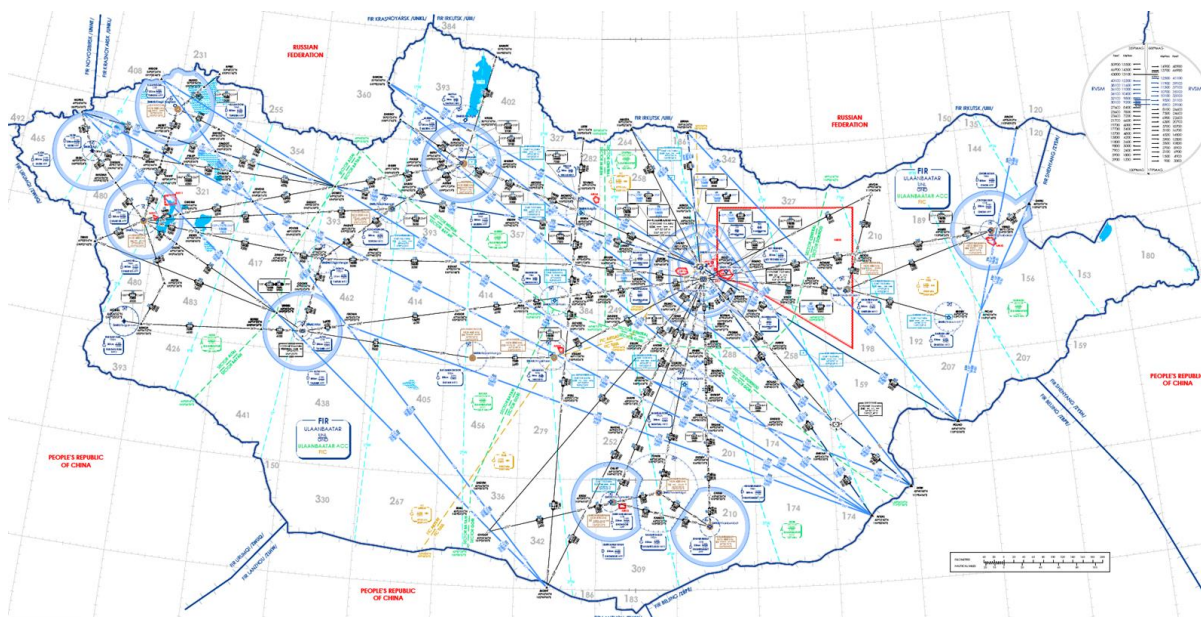
1.1 According to the implementation plan, the PBN concept was first introduced in Mongolia in 2009. Since then, Mongolia successfully implemented its phase I of PBN in 2015 with 6 RNAV 5 routes. Phase II was in 2017 with 4 RNAV 5 routes.

1.2 According to PBN phase III implementation plan, 6 new RNAV-5 routes as well as 34 direct conventional routes are established and now in use by airspace users.

1.3 The redesign of Mongolian airspace, it is expected to be more flexible to airspace users by increasing capacity while saving flight time and fuel, and significant amount of CO<sub>2</sub> emissions will be reduced within the airspace.

**2. DISCUSSION**

2.1 Within the III phase of PBN Mongolia has implemented the new airspace design in which it is fully upgraded.



2.2 The new airspace design includes following upgrades and benefits:

2.2.1 Based on the PBN, 6 new RNAV 5 routes are established.

2.2.2 Previously 84 conventional routes were used in Mongolian airspace, and were upgraded through 34 direct conventional routes.

2.2.3 As stated in Annex 11, Chapter 2, Appendix 2, Eliminated overlap of reporting point's 5 letter name codes along routes, and created a database of 98 newly created reporting points.

2.3 The updated air routes will be in use effectively on 6 October in 2022.

2.4 The transition from RNAV to RNP Chart naming was already completed with publication of AIP AIRAC amendments where the 10 IAC of 8 airports were re-named as per ICAO Cir 353.

### 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.

.....