



*International Civil Aviation Organization*

**Ninth Meeting of the Performance Based Navigation Sub-Group  
(PBN SG/9)**

*(Doha, Qatar, 9 - 11 December 2024)*

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**Agenda Item 7: Future Work Programme**

**REVISION OF TOR AND FUTURE WORK PROGRAMME**

*(Presented by the Secretariat)*

<b>SUMMARY</b>
<p>This paper aims to call for the election of Chairperson, to review the Terms of Reference of the PBN Sub- Group and agree on the tentative dates and venue for the next SG meeting.</p> <p>Action by the meeting is at paragraph 3.</p>
<b>REFERENCES</b>
<ul style="list-style-type: none"><li>- MIDANPIRG Handbook, Edition Feb 2022</li><li>- MIDANPIRG/21 Meeting Report (Abu Dhabi, UAE, 4 – 8 March 2024)</li></ul>

**1. INTRODUCTION**

1.1 In accordance with the current MIDANPIRG Procedural Handbook, the PBN Sub-Group is expected to review the Terms of Reference and propose amendments as required, and decide on the dates and venue of its next meeting.

1.2 The meeting may also wish to recall the MID Doc 001: MIDANPIRG Procedural Handbook, Part IV, Section 6:

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6. Chairpersons and Secretariat of Sub-Groups of the MIDANPIRG:

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6.2 In order to ensure the necessary continuity in the work and unless otherwise determined by special circumstances, the Chairperson and Vice-Chairperson of a Sub-Group assume their functions at the end of the meeting at which they are elected and serve for three meetings unless otherwise decided.

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**2. DISCUSSION**

2.1 The meeting may wish to recall that the MIDANPIRG thorough its Decision 19/27 endorsed a new edition of the Procedural Handbook, including revised ToR for the Subgroups. The current PBN SG ToR circulated in the invitation letter, is at **Appendix A**.

2.2 It is proposed that the PBN SG/10 meeting be held during the period 1 – 3 December 2025, at the ICAO MID Office, Cairo, Egypt, unless a State offers to host the meeting.

2.3 Furthermore, the meeting may wish to note that Mr. Ehab Raslan Mohamed, formerly the General Manager of Research and Development at NANSC, is no longer with his organization. Consequently, he is no longer eligible to serve as the Chairperson for the meeting

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review and update, as deemed necessary, the ToR of the PBN SG at **Appendix A**;
- b) call for the election process for the PBN SG Chairperson, as per the MIDANPIRG handbook; and
- c) agree on the dates and venue of the PBN SG/10 meeting.

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## **PERFORMANCE BASED NAVIGATION SUB-GROUP (PBN SG)**

### **1. Terms of Reference**

#### **1.1 The terms of reference of the PBN Sub-Group are:**

- a) ensure that the implementation of PBN in the MID Region is coherent and compatible with developments in adjacent regions, and is in line with the Global Air Navigation Plan (GANP), the Aviation System Block Upgrades (ASBU) framework and the MID Region Air Navigation Strategy;
- b) monitor the status of implementation of the MID Region PBN-related ASBU threads/elements included in the MID Region Air Navigation Strategy as well as other required PBN supporting infrastructure, identify the associated difficulties and deficiencies and provide progress reports, as required;
- c) keep under review the MID Region PBN performance objectives/priorities, develop action plans to achieve the agreed performance targets and propose changes to the MID Region PBN plans/priorities, as appropriate;
- d) seek to achieve common understanding and support from all stakeholders involved in or affected by the PBN and GNSS developments/activities in the MID Region;
- e) provide a platform for harmonization of developments and deployments of PBN concentrating on PBN for approach and terminal areas;
- f) monitor and review the latest developments in the area of PBN and procedure design, provide expert inputs for PBN-related issues; and propose solutions for meeting ATM operational requirements;
- g) monitor and review the latest GNSS developments and activities;
- h) provide regular progress reports to MIDANPIRG concerning its work programme; and
- i) review periodically its Terms of Reference and propose amendments, as necessary.

#### **1.2 In order to meet the Terms of Reference, the PBN Sub-Group shall:**

- a) provide necessary assistance and guidance to States to ensure harmonization and interoperability in line with the GANP, the MID ANP and ASBU framework;
- b) provide necessary inputs to the MID Region Air Navigation Strategy through the monitoring of the agreed Key Performance Indicators related to PBN;
- c) identify and review those specific deficiencies and problems that constitute major obstacles to the provision of efficient PBN implementations, and recommend necessary remedial actions;
- d) Address PBN implementation aspects of States in the MID Region, including States National PBN Implementation Plans, Share and exchange best PBN Implementation practices between States

within the Region

- e) review and support the MID Flight Procedure Programme activities, as required, including coordination of capacity building activities related to training and qualification of the procedure design personnel and all other personnel involved in PBN implementation;
- f) monitor the progress of studies, projects, trials and demonstrations by the MID Region States, and other ICAO Regions in PBN and GNSS;
- g) develop and maintain strategies for navigation infrastructure to support contingency operations and ensure service continuity during GNSS disruptions;
- h) Identify and propose solutions to operational challenges arising from GNSS Radio Frequency Interference (RFI)
- i) Review and update MID PBN Regional Plan (MID Doc 007), as needed
- j) Address and promote operational improvements and benefits accrued from PBN implementation, through review of the existing global and regional guidance materials; and provide further guidance, as needed; and
- k) Coordinate with relevant MIDANPIRG and RASG-MID Subsidiary bodies issues with common interests.

## **2. Composition**

### **2.1 The Sub-Group is composed of:**

- a) MIDANPIRG Member States;
- b) concerned International and Regional Organizations as observers; and
- c) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.

## **3. WORKING ARRANGEMENTS**

3.1 The Chairperson, in close co-operation with the Secretary, shall make all necessary arrangements for the most efficient working of the Subgroup. The Subgroup shall at all times conduct its activities in the most efficient manner possible with a minimum of formality and paper work (paperless meetings). Permanent contact shall be maintained between the Chairperson, Secretary and Members of the Subgroup to advance the work. Best advantage should be taken of modern communications facilities, particularly video-conferencing (Virtual Meetings) and e-mails. Face-to-face meetings will be conducted when it is necessary to do so.