



International Civil Aviation Organization

MIDANPIRG/19 and RASG-MID/9 Meetings

(Riyadh, Saudi Arabia, 14-17 February 2022)

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**Agenda Item 5.5: Air Navigation Planning and Implementation - PBN**

STATUS OF PBN IMPLEMENTATION IN THE MID REGION

(Presented by the Secretariat)

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| <b>SUMMARY</b>   |
| This paper presents the outcome of the PBN SG/6 meeting.<br>Action by the meeting is at paragraph 3. |
| <b>REFERENCES</b>  |
| – PBN SG/6 Report  |

**1. INTRODUCTION**

1.1 The Sixth meeting of the Performance Based Navigation Sub-Group (PBN SG/6) was successfully held virtually from 10 to 11 November 2021.

1.2 The meeting was attended by a total of sixty-eight (68) participants from fifteen (15) States (Bahrain, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia, Sudan, Syria, UAE and Yemen) and two (2) International Organizations/Industry (IFATCA and Jeppesen).

**2. DISCUSSION**

***Status of PBN Implementation in the MID Region***

2.1 The PBN SG/6 meeting reviewed and updated the status of PBN Implementation in the MID Region.

2.2 The MID Region PBN implementation status by ASBU APTA element is presented below:

| APTA Elements       | B0/1 PBN Approaches (basic) | B0/2 PBN SID and STAR Procedures (basic) | B0/4 CDO (Basic) | B0/5 CCO (Basic) | B0/7 PB-AOM |
|---------------------|-----------------------------|--|------------------|------------------|-------------|
| Average per Element | 58%                         | 55.1%                                    | 65.2%            | 65.2%            | 73%         |
| APTA Thread Average | 63.3%                       |  |                  |                  |             |

***Continuous Descent Operations/ Continuous Climb Operations (CDO/CCO)***

2.3 The meeting noted the significant challenges that States are facing in the implementation of the CCO/CDO (4 out of States have implemented CDO/CCO); accordingly, the meeting proposed to conduct a Workshop, in collaboration with champion States and International Organizations, to provide an overview of Continuous Climb and Descent Operations (CCO/CDO) requirements as per ICAO Documents and to gain insight into lessons learned and/or best practices on CCO/CDO implementation and its operation. The Workshop will provide also an opportunity for sharing of good practices: (phraseology, publication/charting, assessment of ENV benefits, etc). Accordingly, the meeting agreed to the following Draft Conclusion:

|             |  |
|-------------|--|
| <b>Why</b>  | To provide States with the guidance on continuous climb operations (CCO/CDO) to harmonize their implementation in MID region and to promote the sharing of good practices. |
| <b>What</b> | Conduct a Workshop on CCO/CDO Operations   |
| <b>Who</b>  | ICAO   |
| <b>When</b> | 2022   |

*DRAFT CONCLUSION 6/1: CONDUCT OF A WORKSHOP ON CCO/CDO IMPLEMENTATION IN 2022*

*That,*

- a) a Workshop on CCO/CDO implementation be organized in 2022, in collaboration with MID FPP, to provide necessary knowledge about the ICAO provisions on the subject and share experience and best practices on CCO/CDO implementation by States/Airspace users; and*
- b) States and International Organizations are strongly encouraged to participate actively in this Workshop.*

2.4 The PBN SG/6 meeting noted that the majority of MID States AIPs do not contain details on CCO/CDO availability at airports. Therefore, the meeting agreed on the need for an harmonised AIP content related to CCO/CDO to ensure that identified good practices are shared and that Flight Crew / Flight Planners know where CCO/CDO-related text may be found in an AIP. The development of harmonised material on CCO / CDO; structure and content to be located in States' Aeronautical Information Publications (AIP) was recognized.

2.5 Based on the above, the meeting agreed to the following Draft Decision:

|             |   |
|-------------|---|
| <b>Why</b>  | To ensure that identified good practices are shared and CCO/CDO-related text be easily found in the States AIPs |
| <b>What</b> | Establish a CCO/CDO Ad Hoc Working Group  |
| <b>Who</b>  | MIDANPIRG/19  |
| <b>When</b> | Feb. 2022   |

**DRAFT DECISION 6/2: ESTABLISHMENT OF CCO/CDO AD HOC WORKING GROUP**

*That, a CCO/CDO Ad Hoc Working Group:*

- a) *be established to develop guidance related to the publication of CCO/CDO information (text and Charts) in the AIP, in coordination with the relevant MIDANPIRG and RASG MID subsidiary bodies.*
- b) *be composed of:*
  - *Chairpersons of the PBN SG\*, AIM SG and ATM SG*
  - *Mrs. Sheila Brizo, (QCAA Qatar)*
  - *Mrs. Lindi-Lee Kirkman (IATA)*
  - *Mr. Muhammad Al Juhani (GACA Saudi Arabia)*
  - *Secretariat*
- c) *present their outcome during the PBN SG/7 meeting.*

*\* the rapporteur of the group is the Chairman of the PBN SG.*

**MID REGION PBN IMPLEMENTATION PLAN**

2.6 The MID Region Performance Based Navigation (PBN) Implementation Plan (MID Doc 007) has been developed to harmonize PBN implementation in the MID Region and to addresses the strategic objectives of PBN based on clearly established operational requirements, avoiding equipage of multiple on-board or ground based equipment, avoidance of multiple airworthiness and operational approvals and explains in detail contents relating to potential navigation applications. .

2.7 The PBN SG/6 meeting reviewed the current version of the MID Region PBN Implementation Plan (MID Doc 007), which was endorsed by the MSG/6 meeting (Cairo, Egypt, 3-5 December 2018), and recognized that the MID Doc 007 should be updated and refined throughout the implementation process in order to keep pace with changes in MID Region Air Navigation Strategy (MID Doc 002) and to ensure alignment with the GANP 6th edition. Accordingly, the meeting agreed to the following Draft Decision:

|             |  |
|-------------|--|
| <b>Why</b>  | To develop a revised version of the MID Region PBN Implementation Plan (MID Doc 007) to keep pace with the developments, including the GANP 6th Edition and the MID Region Air Navigation Strategy (MID Doc 002) |
| <b>What</b> | Establish a PBN Implementation Plan AD HOC Working Group   |
| <b>Who</b>  | MIDANPIRG/19   |
| <b>When</b> | Feb. 2022  |

**DRAFT DECISION 6/3: ESTABLISHMENT OF THE MID REGION PBN IMPLEMENTATION PLAN AD HOC WORKING GROUP (PBN IP AD-HOC WG)**

*That, an Ad Hoc Working Group:*

- a) *be established to review the MID Region PBN Implementation Plan (MID Doc 007) and develop a revised version for submission to the MIDANPIRG/20 meeting for*

*endorsement, to keep pace with the developments, including the GANP 6th Edition and the MID Region Air Navigation Strategy (MID Doc 002, Edition April 2021); and*

*b) be composed of:*

- Chairpersons of the PBN SG\* and ATM SG
- Mr. Saqr Al Marashda (GCAA UAE)
- Mr. Hamed Al Zubaidi(GCAA UAE)
- Mr. Ahmed Al Shehhi (GCAA UAE)
- Mr. Muhammad Al juhani (GACA Saudi Arabia)
- Secretariat

*\* the rapporteur of the group is the Chairman of the PBN SG.*

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

3.1 The meeting is invited to:

- a) review the MID region PBN implementation status;
- b) urge States to expedite implementation of PBN to achieve the regional targets included in the MID Region Air Navigation Strategy; and
- c) endorse the proposed Draft Conclusion and Decisions.

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