



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**REPORT OF THE MIDDLE EAST
AIR NAVIGATION PLANNING
AND IMPLEMENTATION REGIONAL GROUP
(MIDANPIRG)**

**FIFTH MEETING OF THE
RNP/RNAV TF/5**

Cairo, 10-13 June 2001

The views expressed in this Report should be taken as those of the RNP/RNAV Task Force and not the Organization. This Report will, however, be submitted to the MIDANPIRG and any formal action taken will be published in due course as a Supplement to the Report

**Approved by the Meeting
and published by authority of the Secretary General**

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PART I - HISTORY OF THE MEETING

1. PLACE AND DURATION

1.1 The Fifth Meeting of the MIDANPIRG RNP/RNAV Task Force was held at the meeting room of the Middle East Regional Office, Cairo from 10-13 June 2001.

2. OPENING

2.1 Mr. M. R. Khonji, the ICAO Deputy Regional Director, MID Region welcomed the delegates to the meeting and wished them every success in their deliberations. He gave an overview of the implementation status of RNP/RNAV routes/areas in the MID Region including the extension of the Revised ATS Route Structure Asia to Middle East/Europe South of the Himalayas (EMARSSH) routes. He urged the Task Force to plan for the next phase of the RNP/RNAV routes in the Region with a view to take advantage of the possibilities offered in an RNP/RNAV environment.

3. ATTENDANCE

3.1 The meeting was attended by a total of Thirty-three participants from twelve States (Egypt, Iran, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Sudan, United Arab Emirates and Yemen) two Organizations (IATA and IFALPA). The list of participants is at **Appendix A**.

4. OFFICERS AND SECRETARIAT

4.1 The meeting was chaired by Eng. Fozan M. Al-Fozan, Deputy Director General of Civil Aviation for Navigational Equipment Affairs, Kuwait. Mr. D. Ramdoyal, Regional Officer for Air Traffic Management from the ICAO Middle East Cairo Office, was Secretary of the meeting, supported by Mr. M.R. Khonji, the Deputy Regional Director.

5. LANGUAGE

5.1 The discussions were conducted in English. Documentation was issued in English.

6. AGENDA

6.1 The following Agenda was adopted:

Agenda Item 1: Status of Conclusions 6/17 to 6/21 from the MIDANPIRG/6 Meeting Concerning implementation of RNP/RNAV routes in the MID Region.

Agenda Item 2: Status of the amendment proposal to the Regional Supplementary Procedures Doc 7030.

Agenda Item 3: Reports from the regional monitoring agency and results of safety assessments for RNP 5 operations.

Agenda Item 4: Implementation status of priority RNP 5 routes.

Agenda Item 5: Extension of RNP/5 operations in the MID Region/harmonization with the Revised ATS route structure Asia to Middle East/Europe South of the Himalayas (EMARSSH) routing network.

Agenda Item 6: Any other business.

7. CONCLUSIONS AND DECISIONS - DEFINITION

7.1 All MIDANPIRG Sub-Groups and Task Forces record their actions in the form of Conclusions and Decisions with the following significance:

- a) **Conclusions** deal with reference, merit directly the attention of States on which further action will be initiated by ICAO in accordance with established procedures; and
- b) **Decisions** deal with matters of concern only to the MIDANPIRG and its contributory bodies

7. LIST OF CONCLUSIONS AND DECISIONS

CONCLUSION 5/1 - INTERREGIONAL COOPERATION

That the MID Region States organize regular interface meetings with the EUR and Asia/PAC Regions with a view to harmonize procedures and implementation time-frames.

CONCLUSION 5/2 - AIRWORTHINESS AND OPERATIONAL APPROVAL FOR RNP 5 AND RNP 10 OPERATIONS IN THE MID REGION

That with a view to facilitate and harmonize the airworthiness and operational approvals procedures for RNP 5 and RNP 10 operations in the MID Region:

- a) The European Joint Airworthiness Authority (JAA) Temporary guidance Leaflet No.2, guidance material on airworthiness approval and operational criteria for the use of navigation systems in the European airspace designated for Basic RNAV operations be endorsed as the official guidance material for airworthiness and operational approvals for RNP 5 operations in the MID Region;
- b) the guidance material developed by the United States, Federal Aviation Administration (FAA) Order No.8400.12 be used by States for the development of RNP 10 operational approval process.

CONCLUSION 5/3- NAVIGATION PERFORMANCE OF RNP/RNAV EQUIPPED FLIGHTS WITHIN THE MID REGION

That the preliminary results of the safety assessments carried out by MECMA indicate that navigation performance is well within the limits required for safe introduction of RNP 5 within the Middle East Region.

CONCLUSION 5/4 - IMPLEMENTATION OF GNSS IN THE MID REGION

That recognizing that the use of GNSS will significantly facilitate RNP implementation in the MID Region:

- a) States use JAA Guidance Material on Airworthiness and Operational Criteria for use of navigation systems in European airspace designated for basic RNAV (RNP 5) operations;
- b) States use the FAA Order 8400.12 for the granting of RNP 10 operational approvals;

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- c) States issue an AIC on the use of GNSS as a supplementary means of navigation with effect from 01 January 2002;
- d) Operational approval of GNSS as a primary/supplemental means of navigation be expedited within the framework of the GNSS Task Force.

CONCLUSION 5/5 - RNAV/ RNP IMPLEMENTATION STRATEGY FOR THE MID REGION

That the Phase 2 implementation strategy for the RNAV/RNP implementation in the MID Region be as follows:

- a) The MID Region will establish RNAV/RNP areas instead of RNP/RNAV routes with a view to make maximum flexible use of the airspace;
- b) The lower limit of the RNAV/RNP areas will be progressively reduced from FL285 to FL195, where feasible, taking into account VHF coverage capability and its incidence on the agreed target level of safety;
- c) Unidirectional routes will be established in lieu of the present bi-directional routing network with a view to introduce parallel/flexible routes in an RNP 5 environment and thus paving the way for the safe introduction of RVSM in November 2003;
- d) The use of GNSS as a primary/supplemental means of navigation will be introduced as soon as possible, in an evolutionary manner, in accordance with the MID Region GNSS implementation strategy, and preferably by January 2002 ;
- e) The tentative date for the implementation of the RNAV/RNP areas is 28 November 2002 (*one year prior to the implementation of RVSM*).

DECISION 5/6 - IMPLEMENTATION OF EMARSSH ROUTES WITHIN THE MID REGION

That the EMARSSH route requirements indicated at appendix A to the Report on Agenda Item 5 be reviewed by the ATS/AIS/SAR Sub-Group for eventual inclusion in the network of ATS routes within the MID Region.

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