



INTERNATIONAL CIVIL AVIATION ORGANIZATION

MIDDLE EAST OFFICE

**REPORT OF THE SECOND MEETING OF THE MID REGION FLIGHT PROCEDURE
PROGRAMME STEERING COMMITTEE**

(MID FPP SC/2)

(Abu Dhabi, UAE, 15 – 16 June 2022)

TABLE OF CONTENTS

	Page
PART I - HISTORY OF THE MEETING	
1. Place and Duration.....	1
2. Launch of MID FPP.....	1
3. Opening.....	1
4. Attendance	2
5. Officers and Secretariat.....	2
6. Language.....	2
7. Agenda.....	2
8. Conclusions and Decisions – Definition.....	2
9. List of Conclusions and Decisions.....	3
PART II - REPORT ON AGENDA ITEMS	
Report on Agenda Item 1	4
Report on Agenda Item 2.....	5
Report on Agenda Item 3.....	6 - 9
Report on Agenda Item 4.....	10 -11
Report on Agenda Item 5.....	12
APPENDICES	
Appendix 2A & 2B	
Appendices 3A	
Appendices 4A	
ATTACHMENT	
List of Participants	Attachment A

PART I - HISTORY OF THE MEETING

1. PLACE AND DURATION

1.1 The Second meeting of the MID Region Flight Procedures Programme Steering Committee (MID FPP SC/2) was kindly hosted by the UAE General Civil Aviation Authority (GCAA) back-to-back with the ICAO MID Region Workshop on the Continuous Climb Operations (CCO) / Continuous Descent Operations (CDO) Implementation held at GCAA premises in Sheikh Zayed Air Navigation Centre, **Abu Dhabi, UAE, from 15 to 16 June 2022.**

2. LAUNCH OF MID FPP

2.1 The inaugural ceremony of the MID Region Flight Procedures Programme took place on 15 June 2022 with the presence of the ICAO MID Regional Director Mr, Mohamed Abubaker Farea, Mr. Ahmed Ibrahim Al Jallaf, Assistant Director General Air Navigation Services, GCAA-UAE, the MID FPP Manager, Mr. Sorin-Dan Onitiu and all the delegates who attended (in-person) the MID FPP SC/2 meeting.

2.2 In his address, the ICAO MID Regional Director, Mr. Farea expressed his gratitude for the instrumental support provided by GCAA UAE for hosting the MID FPP in Abu Dhabi; and extended his gratitude to the MID FPP member States that signed the MID FPP ProDoc during the DGCA-MID/5 meeting in Kuwait. He underlined also the need to further promote the MID FPP in order to reach a maximum number of States signing the ProDoc as Active State.

3. OPENING

3.1 The meeting was opened by Mr. Saqr Obaid Al Marashda, Manager Airspace Management GCAA-UAE and Chairman of the MID FPP Steering Committee, who welcomed all the participants to the MID FPP SC/2 meeting (those attending physically in Abu Dhabi and those attending virtually). He emphasized the importance of the subjects to be addressed by the meeting, in particular the updated Work Plan for the year 2022 and the programme sustainability and funding mechanism.

3.2 Mr. Mohamed Smaoui, Deputy Regional Director, ICAO Middle East Office, welcomed all the participants to Abu Dhabi, UAE. Mr. Smaoui highlighted that, after coordination with the host State, and based on requests received from a number of States, this meeting is held in a hybrid setting to allow better level of participation, considering the important decisions the meeting is expected to agree upon. He encouraged States to participate in the programme and the Partners to support the MID FPP Work Plan. Mr. Smaoui extended special thanks to the air navigation team for the preparation and facilitation of this meeting and for the excellent support and hospitality provided by UAE as the host State of the Programme.

3.3 Mr. Smaoui, provided a brief history and background information about the MID FPP and highlighted the main objectives and expected outcomes of the MID FPP SC/2 meeting, in particular:

- to review and agree on the MID FPP Work Plan Y2022; and
- agree on the MID FPP services charging Schema and funding mechanism to ensure the sustainability of the programme.

3.4 Mr. Ahmed Ibrahim Al Jallaf, Assistant Director General of GCAA UAE greeted all participants as the Representative of the host State for the Programme. He emphasized the key role of MID FPP in the region for enhancing State's capabilities related to procedure/airspace design and, in

general, for fostering the PBN implementation. Mr. Al Jallaf reiterated UAE continuous support to the MID FPP.

4. ATTENDANCE

4.1 The meeting was attended by a total of thirty-five (35) participants: (18) in-person/physical participants from five (5) States (Iraq, Libya, Oman, Saudi Arabia and UAE), and (2) Organizations/industries (IATA and GANS/UAE); and (17) virtual participants from eight (8) States (Egypt, Iran, Kuwait, Qatar, Saudi Arabia, Syria, UAE and Yemen); in addition to the MID FPP Manager and ICAO MID representatives. The list of participants is at **Attachment A**.

5. OFFICERS AND SECRETARIAT

5.1 Mr. Sorin Onitiu, MID FPP Manager, was the Secretary of the meeting supported by Mr. Mohamed Smaoui, Deputy Regional Director (DRD), MID Office, Mr. Radhouan Aissaoui, Regional Officer, Information Management (RO/IM) and Mr. Ahmad Amireh, Regional Officer, Air Traffic Management and Search and Rescue (RO/ATM/SAR).

6. LANGUAGE

6.1 Discussions were conducted in English and documentation was issued in English.

7. AGENDA

7.1 The following Agenda was adopted:

- | | |
|----------------|-------------------------------------|
| Agenda Item 1: | Adoption of the Provisional Agenda |
| Agenda Item 2: | MID FPP Work Plan for the Year 2022 |
| Agenda Item 3: | Programme sustainability |
| Agenda Item 4: | Future Work Programme |
| Agenda Item 5: | Any other Business |

7.2 The documentation and presentation delivered during the meeting are available on the ICAO MID Office website at: <https://www.icao.int/MID/Pages/2022/MID%20FPP%20SC2.aspx>

8. CONCLUSIONS AND DECISIONS – DEFINITION

8.1 The Second meeting of the MID Region Flight Procedures Programme Steering Committee (MID FPP SC/2) records its actions in the form of Conclusions and Decisions with the following significance:

- a) **Conclusions** deal with matters that, according to the Group's terms of reference, merit directly the attention of States, or on which further action will be initiated by the Secretary in accordance with established procedures; and
- b) **Decisions** relate solely to matters dealing with the internal working arrangements of the Group and its Sub-Groups.

9. LIST OF DRAFT CONCLUSIONS AND DECISIONS

<i>CONCLUSION 2/1:</i>	<i>MID FPP WORK PLAN FOR Y2022</i>
<i>CONCLUSION 2/2:</i>	<i>MID FPP POOL OF EXPERTS</i>
<i>DRAFT CONCLUSION 2/3:</i>	<i>MID FPP FUNDING MECHANISM</i>
<i>DECISION 2/4:</i>	<i>MID FPP SC TERMS OF REFERENCE</i>

PART II: REPORT ON AGENDA ITEMS

REPORT ON AGENDA ITEM 1: ADOPTION OF THE PROVISIONAL AGENDA

1.1 The subject was addressed in WP/1 presented by the Secretariat. The meeting reviewed and adopted the Agenda as at paragraph 7 of the History of the Meeting.

REPORT ON AGENDA ITEM 2: MID FPP WORK PLAN FOR THE YEAR 2022

2.1 The subject was addressed in WP/2, presented by the Secretariat.

2.2 The meeting recalled that a draft version of the MID FPP Work Plan for the year 2022 was presented to and agreed by the MID FPP SC/1 meeting. The work plan is focusing on the capacity building activities.

2.3 The meeting noted with appreciation the generous offer (in-kind contribution) from UAE by donating to the MID FPP two (2) seats for PANS-OPS training course (Modules 1 and 2). The Course will be held in SZC, Abu Dhabi during the period 18 July – 02 Sep (7 weeks). Further details will be communicated with the MID FPP Manager for communication and coordination with interested States.

2.4 Additionally, GANS offered two seats in a PANS-OPS Basic training course (6 weeks), to be held in Abu Dhabi, by Q4/2022. Further details will be communicated with the MID FPP Manager for communication and coordination with interested States.

2.5 The meeting noted that the Work Plan Y2022 was adjusted to include specific requests from States, as at **Appendix 2A**. Accordingly, the meeting agreed to the following Conclusion:

CONCLUSION 2/1: MID FPP WORK PLAN FOR Y2022

That, the MID FPP Work Plan for Y2022 at Appendix 2A is endorsed.

2.6 The meeting took note of the price list for the MID FPP Activities included in the work plan Y2022, as at **Appendix 2B**.

2.7 The meeting encouraged the MID FPP manager to explore further activities that will support the MID States and generate revenue. The meeting noted that IATA and GANS will explore further possibilities of cooperation with the MID FPP, including the support in delivering OJT.

2.8 The meeting highlighted the need to start the process of nomination and selection of the pool of Experts who will provide technical support for the implementation of the MID FPP Work Plan and achievement of its objectives. Accordingly, the meeting agreed to the following Conclusion:

CONCLUSION 2/2: MID FPP POOL OF EXPERTS

That, States and International Organizations be invited to nominate qualified Subject Matter Experts (SMEs) to support the implementation of the MID FPP Work Plan and achievement of its objectives.

2.9 For the Work Plan of Y2023+, the meeting noted that the MID FPP activities would be customized to the needs of the member States.

REPORT ON AGENDA ITEM 3: PROGRAMME SUSTAINABILITY

MID FPP budget and Financial Status for Year 2022 and 2023

3.1 The subject was addressed in WP/4, presented by the Secretariat.

3.2 The meeting recalled that the MID FPP business model is based on cost-recovery mechanisms (non-profit).

3.3 The meeting noted that, according to the MID FPP Project Financial Status Report (as of 31 May 2022) received from ICAO HQ, the balance of the funds available in the MID FPP account managed by ICAO (RAB18801) is **USD 215,449**.

3.4 At the start of the project (on 1st January 2022) the available amount to launch the project was **USD 287,976**. The expenditures up-to 31 May 2022 are related mainly to the boarding of the Project Manager, his salaries and entitlements and the administrative fees (sundry and overhead).

3.5 Based on the Draft MID FPP Work Plan, the incomes from the Training activities to be conducted by the MID FPP (PBN Implementation Workshop, PBN Oversight and OPS Approval Course, PBN Navigation Database Course (Path Terminator, coding rules) and Inter-relationship PBN Design – Coding – Chart Naming Convention/AIP Course) are estimated to be around USD 15,000 and the incomes from assistance/consultancy projects (Kuwait RNAV 1 routes project) are estimated to be around USD 20,000, which means that the total incomes for 2022 are estimated to be around USD 35,000.

3.6 Based on the above, the financial status of the MID FPP project by 31 December 2022 is estimated to be as follows:

Available funds as of 31 May 2022	Estimated expenditures until 31 Dec. 2022	Estimated incomes until 31 Dec. 2022
USD 215,449	Salaries and administrative fees: USD 70,000	USD 35,000
	Miscellaneous (meetings, travel, etc): USD 10,000	
	Estimated funds as of 31 Dec. 2022: USD 170,449	

3.7 The meeting noted that, with regard to the year 2023, similarly to Y2022, the expenditures will be mainly related to the Project Manager salaries and entitlements, the administrative fees and miscellaneous expenses (meetings, travel, training, etc.). Therefore, it is expected that the Total expenditures will be around **USD 160,000**.

3.8 Although the Work Plan for 2023 has not yet been developed, the expected MID FPP incomes for Y2023 will be as follows:

Estimated expenditures	Expected Incomes	
	Pessimistic scenario	Optimistic scenario
Training Courses/Workshops/Seminars	USD 15,000	USD 30,000
Flight Procedure Design (FPD) and Ground Validation (GV)	USD 10,000	USD 20,000
Assistance/Consultancy projects (others than FPD)	USD 10,000	USD 30,000
Annual contribution by Active States	(2 States): USD 60,000	(5 States): USD 100,00
Voluntary contributions/Resource mobilization	USD 20,000	USD 60,000

3.9 Based on the above, the Table below reflects the total expenditures for 2023 as well as the estimated incomes for both the pessimistic and optimistic scenarios:

Estimated expenditures for Y2023	Expected Incomes for Y2023	
	Pessimistic scenario	Optimistic scenario
USD 160,000	USD 115,000	USD 240,000

3.10 The meeting reiterated that the main incomes of the MID FPP project are coming from the Active States financial contributions and the revenues generated from the services provided by the MID FPP. Therefore, in order to ensure the sustainability of the MID FPP, it is very important that a maximum number of States join the programme as Active State; and this will have also as direct consequence an increase in the services provided by the MID FPP, which will be beneficial to the concerned States and to the MID FPP. In this respect, it was underlined that the amount, which was secured through voluntary contributions mainly by Qatar, Saudi Arabia and UAE (**USD 287,976**) allowed the launch of the MID FPP and will be used to cover the Y2022 expenditures; however, although it is expected to have a reserve (remaining amount) of **USD 170,449** by 31 Dec. 2022, it is important that this amount be preserved for emergency/contingency situations.

MID FPP Services Charging Schema

3.11 The subject was addressed in WP/3, presented by the Secretariat.

3.12 The meeting noted that, for the purpose of Programme services profitability and competitiveness, the proposed service charges for training activities have been determined following an in-depth analysis of the market of the commercial training providers and considering the business model of the existing APAC and Africa FPPs.

3.13 The meeting was of view that the charging schema should be simplified and agreed to the schema at **Appendix 3A**.

Funding Mechanism and Active State Contribution

3.14 The subject was addressed in WP/5, presented by the Secretariat.

3.15 The meeting recalled that the the main sources of income of the MID FPP are the annual financial contributions by the Active States, the revenues generated from the services provided by the MID FPP and the resource mobilization (financial and/or in-kind contributions by Donor States/Organizations/Industry).

3.16 The meeting reiterated that the charges applied by the MID FPP are in accordance with the applicable ICAO Policies.

3.17 The meeting agreed that the annual financial contribution of the MID FPP Active States should be US\$ 20,000, from which 50% may be used by the Active State against the services provided by the MID FPP in line with the approved Work Plan.

3.18 Similarly, the meeting agreed that the Donors may use 50% of the provided donations against services provided by the MID FPP in line with the approved Work Plan.

3.19 The Donor would receive similar benefits as Active States, if the donation is equivalent at least to the Active States annual contribution.

3.20 The meeting agreed that the financial situation and the funding mechanism will be reviewed and approved by the Steering Committee on annual basis.

3.21 Based on all the above, the meeting agreed to the following Draft Conclusion to be presented to the DGCA-MID/6 meeting for endorsement:

DRAFT CONCLUSION 2/3: MID FPP FUNDING MECHANISM

That, considering that the MID FPP business model is based on cost-recovery mechanisms (non-profit):

- a) the charges applied by the MID FPP are in accordance with applicable ICAO policies and as agreed by the MID FPP Steering Committee;*
- b) the main sources of income of the MID FPP are: the annual financial contributions by the Active States; the revenues generated from the services provided by the MID FPP and the resource mobilization (financial and/or in-kind contributions by Donor States/Organizations/Industry);*
- c) the MID FPP charging schema is in accordance with **Appendix 3A** and might be revised by the MID FPP Steering Committee, when necessary;*

- d) *the Active States pay an annual financial contribution of USD 20,000;*
- e) *up-to 50% of the Active States' and Donors' contributions be used against services provided by the MID FPP (with no additional cost), in line with the approved Work Plan;*
- f) *the annual contributions be paid not later than 1 December of each year based on the invoices issued by ICAO TCB;*
- g) *ICAO ensure that the year of contribution is clearly indicated on the invoices related to the MID FPP Project;*
- h) *the MID FPP Member States comply with the payment instructions contained in the invoices sent by ICAO HQ (Project code, fund number, invoice number, Bank information, etc);*
- i) *in case a MID FPP Active State does not pay the annual contribution in a timely manner, the MID FPP Steering Committee might consider taking penalty measures against this State (benefiting of services/discounts, review of the Membership, etc);*
- j) *the bills related to the MID FPP expenses be certified by the MID FPP Steering Committee Chairman on behalf of the Steering Committee; and*
- k) *the MID FPP funding mechanism be revised by the MID FPP Steering Committee, when necessary.*

REPORT ON AGENDA ITEM 4: FUTURE WORK PROGRAMME

Review of the MID FPP SC Terms of Reference (ToRs)

4.1 The subject was addressed in WP/6, presented by the Secretariat.

4.2 The meeting reviewed and updated the MID FPP Steering Committee Terms of Reference (ToR), as at **Appendix 4A**; and agreed accordingly to the following Decision:

DECISION 2/4: MID FPP SC TERMS OF REFERENCE

That, the MID FPP Steering Committee Terms of Reference be updated as at Appendix 4A.

MID FPP Institutional Framework

4.3 The subject was addressed in WP/7, presented by the Secretariat.

4.4 The meeting recalled that the MID FPP Institutional framework is based on the signature of the Project Document (ProDoc) by any State wishing to participate in the Programme. Upon signature, such State becomes a Participating State. The Participating States are grouped in the following categories: (1) Active States, (2) User States, (3) Donors and (4) Observer States.

4.5 The meeting noted that under para. 3.4 of the ProDoc, there is a Note stating that “*in order to assist the Participating States in expediting the implementation, both training and services may be extended to air navigation service providers of the Participating States in accordance with applicable ICAO policies*”. The meeting noted that in some cases, the ANSPs might be interested to sign the ProDoc as a participating member.

4.6 The meeting recognized that some sections of the ProDoc may require updates/improvements, in particular, the followings:

- Start date of the Programme.
- Outputs and activities.
- Category of signatories. In this respect, it was agreed that it would be good if a third category “Others” be added to the Front page to allow, other categories of participating members to sign the ProDoc (ANSPs, Donor States, Donor Organizations/Industry, etc.).
- MID FPP SC ToRs.
- Responsibilities of the Chairperson;
- Job Description of Airspace Planners; and
- Exit policy.

4.7 In line with the above, the meeting tasked the MID FPP manager, in coordination with the ICAO MID Office, TCB and LEB, to propose a revised version of the ProDoc for further review by the MID FPP SC. In case, the revised ProDoc would be ready before mid-October 2022, it would be presented to the DGCA-MID/6 meeting for endorsement.

Dates and Venue of MID FPP SC/3

4.8 The meeting agreed that based on the Work Programme and the expected developments, the MID FPP SC/3 meeting will be planned for January 2023 at the MID FPP premises. The exact dates will be coordinated between the Chairperson of the MID FPP, the MID FPP Manager and the ICAO MID Office.

4.9 If deemed necessary, the Chairperson of the MID FPP SC may call for an Ad-hoc meeting of the Steering Committee to review the revised Pro.Doc.

REPORT ON AGENDA ITEM 5: ANY OTHER BUSINESS

5.1 Through PPT/2 presented by UAE (Host), the meeting noted with appreciation the infrastructure and tools made available in the premises of the MID FPP Office within SZC, Abu Dhabi, and the logistics provided by the Host State.

5.2 The participants visited the MID FPP premises, and SZC training facilities.

5.3 It is to be highlighted that further to the meeting, a communication was received from United ATS (UATS) proposing the following offer, as in-kind contribution to the MID FPP:

- Provision of 15% discount of Retail Prices in all related Airspace Design and Flight Procedures Design Training Courses provided by United ATS Training Department either ICAO STP or Customized /Job Oriented Training.
- Provision of Development one (1) Airport with one (1) runway Flight Procedures every year free of charge.
- Contribution for Presentations for Best practices Experiences for Workshops related to MID FPP.

APPENDICES

“Updated MID FPP Work Plan for the Year 2022”

MID FPP Objectives for Year 1 (2022)

The **Year 1** (Phase I) will be an important year for the MID Region Flight Procedures Programme (MIDFPP). The purpose of the Program is to provide opportunity to use the available training activities and services proposed by the Program for Participating States.

The Work Plan Y2022 will focus on (1) capacity building activities and (2) provision of services based on the current capabilities/resources available within the Programme considering the contribution of Donor States and Partners.

In order to propose a variety of training activities and services addressing the needs of Participating States while complying with the ICAO Resolution A37-11 and ASBU APTA Thread/Elements, the MID FPP training program is composed of workshops, training courses, and supporting activities.

MID FPP Steering Committee (SC/1) meeting (26 - 27 January 2022) reviewed and adjusted the initial draft Work Plan for Y2022 with the specific requests received from States e.g. Jordan, Kuwait, and Oman for the provision of IFP services, including training, assistance and consultancy.

The SC/1 meeting also noted with appreciation the support to be provided by DGAC France to the MID FPP within the frame of the Technical Agreement (TA) signed with ICAO.

Consequently, the updated MID FPP Objectives for year 2022 are as follows:

- Commence Phase I MID FPP operations on **17 January 2022**.
- Organize PANSOPS Training course activities *.
- Organize one (1) PBN Oversight & OPS Approval Training course.
- Conduct two (2) PBN Workshops.
- Organize two (2) PBN procedure coding/charting courses.
- Provide specific assistance and consultancy for IFPs and Airspace design to States.

* **Note:** Initially, PANSOPS training modules for 2022 were subject to ENAC availability. ENAC cannot provide any support to MIDFPP in 2022 due to lack of resources. The option is to have online training delivered by APAC FPP instructor (Option 1) or by Africa FPP in Dakar (Option 2).

Description of MID FPP Activities for 2022

1) PBN Implementation Workshop (5 days), [Date/Quarter 3]

Description: This PBN Implementation Workshop is intended to assist States/Administrations in developing and/or enhancing their national PBN Implementation Plan and move forward with actual PBN implementation. The Workshop will also provide updated information regarding global PBN activities and how PBN can be an enabler for enhancing ATM operations. During the workshop, the participants with assistance from MID FPP facilitators will develop a list of short-term action items aiming to develop and/or enhance their PBN Implementation Plan and advance their on-going PBN implementations and deployments. The list of action items along with relevant recommendations will then be submitted to their States Authorities. Participants to this workshop should be representatives from all aviation stakeholders with an interest in PBN implementation.

- Facilitator: MIDFPP Manager & ICAO/IATA Experts, partner organizations.
- Sponsorship: Industry/Stakeholders
- Material: FPP programs
- Facility: Virtual/Physical (TBD)

2) CDO/CCO PBN workshop, (2 days), [13-14 June/Q2]

Description: Continuous Climb and Descent Operations (CCOs and CDOs) are aircraft operating techniques enabled by airspace design, instrument procedure design and facilitated by air traffic control (ATC). This workshop is aimed at Air Traffic Controllers and Procedure Designers who would like an insider view of the flight crew perspective on continuous descent & climb operations. The workshop be organized in collaboration with ICAO MID 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.

- Instructor: Pool of experts (IATA, ICAO, States)
- Sponsorship: UAE (Host)
- Material: Presentations (ICAO MID & States)
- Facility: Physical/MID FPP premises
- Funding: Free of charge

3) PBN Oversight & Ops Approval Course (4 days), [Date/Quarter 3]

Description: The course is based on ICAO Doc. 9997 “*PBN Operational Approval Manual*” and conducts to support States in developing their operational approval capability for approving PBN operations and air operators in obtaining PBN OPS approvals.

This training introduces PBN and its purpose and the way PBN specifications are introduced in the oversight process. It focuses on the quality assurance processes associated to procedure design activities and the enforcement of PBN operations by aircraft operators and the associated oversight.

The purpose of the course is to provide experienced flight operations inspectors, personnel from CAA (or National Supervisory Authority), procedure designers and air operators’ staff with a comprehensive understanding of the requirements for PBN operational approval. The course is open to participants involved in PBN flight operations.

- Instructor: MIDFPP manager
- Sponsorship: NIL
- Material: FPP programs
- Facility: Virtual/Physical (TBD)

4) ICAO PANS-OPS Instrument Procedures Design: Foundation skills/SIDs, (2 weeks). [2nd half July/Q3]

Description: The course is based on ICAO PANS-OPS criteria and aims to support States/Administrations in developing their basic procedure design capability by providing fundamental knowledge regarding procedure design criteria. This initial course is focused on all basic concepts (conventional & PBN concept) as well as conventional and PBN departures. The instruction consists of exercises, in-class exercise, or homework.

This module task exercise is focused on the Conventional SID as well as PBN SIDs.

At the end of the course, each participant will be individually assessed, and the outcome of the assessment will then be reported to each participant and his/her agency.

- Instructor: APAC FPP
- Sponsorship: MIDFPP
- Material: APAC FPP
- Facility: Online

5) ICAO PANSOPS Instrument Procedure Design Course: 2D Approach, NPA & RNP APCH (2 weeks). [2nd half August/Q3]

Description: The course aimed to support States/Administrations in developing their PBN procedure design capacity. This course is considered as the second step of a thorough training to design IFR procedure. The module covers conventional and PBN 2D type of approach design, non-precision approach design as well as holdings/en-route criteria. For Module 2, the task exercise is for a VOR approach and RNP APCH (2D) procedures and a holding.

2A-3

At the end of the course, each student will be individually assessed, and the outcome of the assessment will then be reported to each student and his/her agency.

The course is open to participants who have successfully completed the 1st module of Instrument Procedure Design course: “Foundation skills/SIDs “.

- Instructor: APAC FPP
- Sponsorship: MID FPP
- Material: APAC FPP
- Facility: Online

6) ICAO PANSOPS Instrument Procedure Design Course: Conventional and PBN 3D approach design, ILS, APV Baro-VNAV, SBAS/GBAS criteria (2 weeks). [19 – 30 Sep/Q3]

Description: The course aimed to support States/Administrations in developing their PBN procedure design capacity. This course is considered as the third step of a thorough training to design IFR procedures.

For Module 3, the practical task consists of an ILS and Baro-VNAV procedures. Furthermore, a Coding table and a sample chart must be made by the trainees.

At the end of the course, each student will be individually assessed, and the outcome of the assessment will then be reported to each student and his/her agency.

The course is open to participants who have successfully completed the 1st and 2nd modules of the Instrument Procedure Design Course.

- Instructor: APAC FPP
- Sponsorship: MID FPP
- Material: APAC FPP
- Facility: Online

7) ICAO PANSOPS Instrument Procedure Design Course: RNP AR Refresher course (5 days). [7 – 11 Nov/Q4]

Description: The course aimed to support States/Administrations in developing their PBN procedure design capacity. The course covers underlying principles and procedure design criteria of RNP AR Approach as laid down in ICAO Design Manual Doc.9905. The knowledge of criteria is presented to trainees followed by practical exercise for the implementation of the criteria. The last two days of the course will include discussion on industry examples of RNP AR design.

The course is open to participants who have successfully completed, at least, the training module covering design criteria of PBN Baro-VNAV and/or it is addressed to senior design experts as a refresher course.

- Instructor: APAC FPP
- Sponsorship: MID FPP
- Material: APAC FPP
- Facility: Online

8) PBN Navigation Database Course (Path Terminator, coding rules), (3 days). [Date/Q4]

Description: Reference to and use of the Navigation System Database Standard, ARINC 424, the Path and Termination (P/T) concept has become the “industry norm” for path description in Instrument Procedure definition. As a result, it is imperative that the procedure designers understand these rules and provide a design intent that reflects those requirements.

Primarily, the course is addressed to procedure designers and airspace planning experts. However, since PBN concept is a cross-domain model, the course material is also referring to AIS & Charting experts involved in the State AIP production.

- Instructor: MID FPP
- Sponsorship: MID FPP
- Material: MID FPP
- Facility: Virtual/Physical (TBD)

**9) Inter-relationship PBN Design – Coding – Chart Naming Convention/AIP Course, (3 days).
[Date/Q4]**

Description: The course is not simply intended to familiarize the participants with ARINC 424 standard and its database coding requirements, but additionally, it will be bringing the inter-disciplinary overview on each database element, where applicable, perceived from design, charting and/or AIS/AIP perspective. The course content is including rich number of examples illustrating the inter-dependency between the three domains. The course is addressed to procedure designers/airspace planning professionals as well as to AIS & Charting experts involved in the State AIP production.

- Instructor: MID FPP
- Sponsorship: MID FPP
- Material: MID FPP
- Facility: Virtual/Physical (TBD)

Provision of specific assistance and consultancy for IFPs/Airspace design to States [States, dates]

Description: The MID FPP will provide support to member States through consultancy service (based on specific requests coming from States). These services are including a broad spectrum of support being:

(1) by helping or lending provision in activities that one State is unable to perform due to lack of resources/tools i.e., technical assistance as follows:

- Charting, elements of procedure coding evaluation,
- Drafting PBN implementation national plan,
- Visit States for support of PBN implementation, oversight and regulatory approval guidance, etc.
- Help writing tender requirements, etc.

(2) by giving expert advice - consultancy service - on subjects, for example:

- Establishing new route(s) or procedures,
- Restructuring national airspace or part(s) of it,
- Guidance in validating the procedure fly-ability from FMS perspective (path terminator, coding tables, charting naming convention),
- Support in project tender specifications evaluation or validation, etc.

Moreover, a training request from a User State should also be considered as a specific request for service category.

To be noted that the above services are dependent upon the “diversity” and availability of the pool of experts established by the Programme as well as in attracting industry/organization partnerships. For the specific requests included in the present Work Plan – refer to the Matrix below.

- Funding by: States participating or Donors

2A-5
Matrix

Subject/Duration		Work Plan Y2022												Notes	
		Q1			Q2			Q3			Q4				
		1	2	3	4	5	6	7	8	9	10	11	12		
1	PBN Implementation Workshop/ 5 days														1 st half August
2	CDO/CCO workshop/ 2days														13-14 June/Q2 (2 days)
3	PBN Oversight and Ops Approval Course/ 4 days														
4	ICAO PANSOPS Instrument Procedures Design “Foundation skills/SIDs”/ 2 weeks (virtual class)														2 nd half July, APAC Instructor
5	ICAO PANSOPS Instrument Procedure Design Course “2D Approach, NPA & RNP APCH”/ 2 weeks (virtual class)														2 nd half August APAC Instructor
6	ICAO PANSOPS Instrument Procedure Design Course “Conventional and PBN 3D approach design, ILS, APV Baro-VNAV, SBAS/GBAS criteria”/ 2 weeks (virtual class)														19 – 30 September, Part of APAC plan
*	Module 1: Conventional FPD including NPA, PA and Conventional Departures														4 weeks, on-site Dakar, limited seats
7	ICAO PANSOPS Instrument Procedure Design Course “RNP AR Refresher Course”/ 5 days (virtual class)														7 – 11 November, Part of APAC Plan
8	ICAO PANS OPS Instrument Procedure Design Course /7 weeks (on site, 2 seats, GCAA SZC/Abu Dhabi)														18.07-02.09
9	ICAO PANS OPS Instrument Procedure Design Course/6 weeks (on-site, 2 seats, GANS, Abu Dhabi)														Q4
10	PBN Navigation Database Course (Path Terminator, coding rules)/ 3 days														2 nd half November
11	Inter-relationship PBN Design – Coding – Chart Naming Convention/AIP Course/ 3days														1 st half December
12	Provision of specific assistance and consultancy for IFPs/Airspace design to States:														
	Implementation RNAV1 Routes project (Kuwait)														
	Jordan (Airspace Re-structure/PBN Procedures);														
	Oman (PANS OPS training, 6 people);														



APPENDIX 2B TO MID FPP SC/2 - REPORT

“MID FPP Fees Matrix”

Activity	Portfolio	Duration	Fee/Pers
Training	1) PANS OPS I, online (Foundation skills/SIDs)	2 weeks	\$2,000
	2) PANS OPS II, online (2D Approach, NPA & RNP APCH)	2 weeks	\$2,000
	3) PANS OPS III, online (3D Approach, ILS & Baro-VNAV)	2 weeks	\$2,000
	4) RNP AR Refresher Course, online	1 week	\$1,000
	5) PANS OPS (Module I & II), onsite (Abu Dhabi)	7 weeks	\$7,000
	6) PANS OPS course, onsite (Abu Dhabi)	6 weeks	
	7) PBN Ops Approval & Oversight	4 days	\$1,500
	8) PBN Navigation Database (Path Terminator, coding rules)	3 days	\$2,500
	9) Inter-relationship PBN Design – Coding – Chart Naming Convention/AIP	3 days	\$2,000
Workshop	10) PBN Implementation	5 days	\$1,800
	11) CCO/CDO	2 days	Free
Assistance (\$500/day)	Implementation RNAV1 Routes project (Kuwait)		
	Jordan (Airspace Re-structure/PBN Procedures);		
	Oman (PANS OPS training, 6 people);		

MID FPP Services Charging Schema

SERVICES	CHARGES		
	Normal fees	Active/Donor State	User State
Training Courses	<ul style="list-style-type: none"> For the courses with a duration up-to 5 days: USD 500/day/person For the courses with a duration of more than 5 days: USD 300/day/person 	20% discount	10% discount
Workshops/Seminars	<ul style="list-style-type: none"> Flat rate of USD 1000/person 	20% discount	10% discount
Flight Procedure Design (FPD), Ground Validation (GV), and Assistance/Consultancy projects	Price based on flat rate of USD 500/man workday ⁽¹⁾	20% discount	10% discount

(1): In accordance with the MID FPP ProDoc, para. 3.9 “For on-site missions/training courses, the travel and accommodation expenses and the daily subsistence allowance for the MID FPP personnel, ICAO Team and course’ instructors should be covered by the beneficiary State in accordance with applicable ICAO policies.”

MID FPP STEERING COMMITTEE (MID FPP SC)

TERMS OF REFERENCE

A) Purpose of the MID FPP SC:

The MID FPP Steering Committee shall meet at least once a year at a venue and time agreed upon by the SC Members.

In order to meet its Terms of Reference, the MID FPP SC shall:

1. elect a Chairperson for a cycle of three years unless re-elected;
2. review regional objectives, plans and users' requirements;
3. monitor and evaluate the Programme activities since the previous meeting;
4. formulate policies and assign priorities for the activities of the MID FPP taking into account the requirements of this Institutional Framework, the provisions of the MID FPP Project Document (ProDoc) and the availability of funds;
5. review and approve the annual work plan and budget of the MID FPP; taking into account the Host State's and Participating States' in kind-contributions for offsetting their annual financial contribution to the Programme.
6. review plans submitted by the MID FPP Manager;
7. ensure that the business plans are in line with the MID Air Navigation Strategy;
8. oversee the activities of the MID FPP in line with the plans and approved budgets;
9. monitor the financial performance at project level in line with the approved budget;
10. monitor and follow-up the implementation of the MIDANPIRG Conclusions and Decisions related to the MID FPP;
11. follow up with the implementation of the agreed projects and provide regular progress report to the relevant MIDANPIRG subsidiary bodies;
12. coordinate technical issues with the appropriate MIDANPIRG subsidiary bodies; and
13. review and update its terms of reference, as deemed necessary.

B) Composition:

The MID FPP SC is composed of:

1. MID FPP Active States: Directors General of Civil Aviation of the MID FPP Active States, or their designated representatives;
- ~~2. ICAO: Regional Director, Middle East Office, Director, Technical Cooperation Bureau (TCB), and Director Air Navigation Bureau Section (ANB) or their representatives; and~~
3. The MID FPP Chairperson and the MID FPP Manager, who will act also as the Secretary of the Steering Committee meetings;
4. The PBN SG Chairpersons;
5. Participating Partners (refer to para. 6.d below), who actively participate in the implementation of the Programme work plan.

6. The following may participate in the Steering Committee meetings as Observers:
- a) MID FPP Users States: Directors General of Civil Aviation of the MID FPP Member States, or their designated representatives;
 - b) Donor States, agencies, organizations and industry having made a financial or in-kind contribution (recognized as “Partners” in the implementation of the Programme);
 - c) Representatives from observers States, agencies, organizations and industry with an interest in aviation safety or air navigation issues in the MID Region; and
 - d) Representatives from the following participating Partners:
AACO, ACAC, ACI, AIRBUS, BOEING, CANSO, EUROCONTROL/SESAR JU, IATA, IFALPA IFAIMA, and IFATCA.

Other representatives from States and industry may be invited on ad-hoc basis, as required.

Note 1: The composition of the MID FPP SC may be updated over time to include only States and/or Partners that could participate actively and contribute to the work of the SC.

C) Working arrangements

- 3.1 The Chairperson, in close co-operation with the MID FPP Manager and the ICAO MID Office, shall make all necessary arrangements for the most efficient working arrangements of the MID FPP Steering Committee. Permanent contact shall be maintained between the Chairperson, Secretary, ICAO MID Office and Members of the Steering Committee to advance the work. Best advantage should be taken of modern communications facilities, particularly video-conferencing (Virtual Meetings) and e-mails.

ATTACHMENT A

List of Participants

NAME	TITLE & ADDRESS
IN-PERSON/PHYSICAL ATTENDANCE	
<u>STATES</u>	
IRAQ	
Mr. Mohammed Adnan Abul Azeez	Approach Air Traffic Controller / ICAA Safety General Company for Air Navigation Services IRAQ
Mr. Zaidoon Hasan Ali	Approach Procedure Manager General Company for Air Navigation Services IRAQ
LIBYA	
Mr. Alhasan Salem Ramadan Hareweda	Head of Libyan AIS Department Libyan Civil Aviation Authority LIBYA
Mr. Ibrahim Ali Mohamed	Procedure Designer Libyan Civil Aviation Authority LIBYA
Mr. Salaheddin Ibrahim Elfzzani	Procedure Designer Libyan Civil Aviation Authority LIBYA
OMAN	
Mr. Ayman Amer Al Sheyadi	Air Traffic Controller Oman Civil Aviation Authority Muscat – SULTANATE OF OMAN
Mr. Sulaiman Nasser Al-Salmi	Standard Officer / Act. Chief AS Oman Civil Aviation Authority Muscat – SULTANATE OF OMAN
SAUDI ARABIA	
Mr. Muhammad Aljuhani	Flight Procedure Manager General Authority of Civil Aviation (GACA) KINGDOM OF SAUDI ARABIA
UNITED ARAB EMIRATES	
Mr. Ahmed Al Jallaf	Assistant Director General - Air Navigation Services General Civil Aviation Authority P.O.Box: 666 ABU DHABI – UNITED ARAB EMIRATES

NAME	TITLE & ADDRESS
IN-PERSON/PHYSICAL ATTENDANCE	
Mr. Muayyaed Al Teneiji	Director – Air Traffic Management Air Navigation Services Air Traffic Management General Civil Aviation Authority P.O.Box: 666 ABU DHABI – UNITED ARAB EMIRATES
Mr. Saqr Obaid Al Marashda	Airspace Management GCAA, Chairman MID FPP Steering Committee General Civil Aviation Authority P.O.Box: 666 ABU DHABI – UNITED ARAB EMIRATES
<p><u>OBSERVER</u></p> <p>Global Air Navigation Services (GANS) - UAE</p>	
Mr. Asim Rizwan	Head AIM & ATM Performance Global Air Navigation Services (GANS) UNITED ARAB EMIRATES
<p><u>ORGANIZATION</u></p> <p>IATA</p>	
Mr. Jihad Faqir	Assistant Director Safety and Flight Operation (North Africa and Middle East) International Air Transport Association (IATA-AME) Amman – JORDAN
Mr. Riad Chehayeb	Director of Operations, ANS Serco IAL, UAE
<p>MID FPP MANAGER</p>	
Mr. Sorin-Dan Onitiu	Manager Middle East Region Flight Procedure Program (MID FPP) Secretary of the MID FPP Steering Committee ABU DHABI – UNITED ARAB EMIRATES
<p>ICAO MID OFFICE</p>	
Mr. Mohamed Smaoui	Deputy Regional Director (DRD) ICAO Middle East Regional Office Cairo Airport Road Ministry of Civil Aviation Building CAIRO – EGYPT

A-3

NAME	TITLE & ADDRESS
IN-PERSON/PHYSICAL ATTENDANCE	
Mr. Radhouan Aissaoui	Regional Officer, Information Management (RO/IM) ICAO Middle East Regional Office Cairo Airport Road Ministry of Civil Aviation Building CAIRO – EGYPT
Mr. Ahmad Amireh	Regional Officer, Air Traffic Management and Search and Rescue (RO/ATM/SAR) ICAO Middle East Regional Office Cairo Airport Road Ministry of Civil Aviation Building CAIRO – EGYPT

LIST OF PARTICIPANTS – *Virtual Attendance*

NAME	TITLE & ADDRESS
VIRTUAL ATTENDANCE	
<u>STATES</u>	
EGYPT	
Nav. Tayseer Mohamed Abdel Kareem	Head of Central Administration for Air Navigation - ECAA Cairo Airport Road Cairo - EGYPT
IRAN	
Mr. Amir Kasaei	Expert Procedure Design Civil Aviation Authority of I.R Iran ISLAMIC REPUBLIC OF IRAN
Mr. Hamid Naghavi	Deputy, IAC, Head of Procedure Design Office Civil Aviation Authority of I.R Iran ISLAMIC REPUBLIC OF IRAN
Mr. Mehdi Pahlavani	Expert in charge of Procedure Design Civil Aviation Authority of I.R Iran ISLAMIC REPUBLIC OF IRAN
Mr. Saadatpour Mohsen	IAC, Head of Procedure Design Office Civil Aviation Authority of I.R Iran ISLAMIC REPUBLIC OF IRAN
KUWAIT	
Mr. Mustafa A. Altarrah	Head of Air Navigation Services Inspectors / ANSI Aviation Safety Department Directorate General of Civil Aviation P.O. Box 17 STATE OF KUWAIT
QATAR	
Mrs. Pamela Erice	AIM Supervisor Civil Aviation Authority P.O. Box 73 Doha – QATAR
Mr. N M Tilak Priyankara	PANS OPS Specialist Civil Aviation Authority P.O. Box 73 Doha – QATAR

A-5

NAME	TITLE & ADDRESS
VIRTUAL ATTENDANCE	
SAUDI ARABIA Mr. Imed Ben Saad	IFP/AIM/OBST Expert General Authority of Civil Aviation (GACA) KINGDOM OF SAUDI ARABIA
Mr. Mohammed Hassan Kalifah	General Authority of Civil Aviation (GACA) KINGDOM OF SAUDI ARABIA
SYRIA Mr. Hassan Hamoud	Air Traffic Management Director Civil Aviation Authority SYRIA
UNITED ARAB EMIRATES Mr. Rashed Al Mheiri	General Civil Aviation Authority P.O.Box: 666 ABU DHABI – UNITED ARAB EMIRATES
YEMEN Mr. Ashhab Shehab Saeed Omar	Director Air Navigation Operations Yemen - CAMA YEMEN
Mr. Mahmood Mohamed Abdul Razak	Director General of AirNav Advisor Yemen - CAMA Aden - YEMEN
Mr. Younis Al-Khader	Director General of Air Navigation Yemen - CAMA Aden - YEMEN
<u>ORGANIZATIONS</u> ICAO MID Mr. Ahmad Kavehfirouz	Regional Officer, Air Traffic Management (RO/ATM) ICAO Middle East Regional Office Cairo Airport Road Ministry of Civil Aviation Building CAIRO – EGYPT

MID FPP SC/2 - REPORT
ATTACHMENT A

A-6

NAME	TITLE & ADDRESS
VIRTUAL ATTENDANCE	
Ms. Dina El Karimy	Technical Assistant, ATM/SAR & ASF ICAO Middle East Regional Office Cairo Airport Road Ministry of Civil Aviation Building CAIRO – EGYPT

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