



INTERNATIONAL CIVIL AVIATION ORGANIZATION

MIDDLE EAST OFFICE

**FIRST MEETING OF THE MID REGION FLIGHT PROCEDURE PROGRAMME
STEERING COMMITTEE**

(MID FPP SC/1)

(Virtual, 26 – 27 January 2022)

SUMMARY OF DISCUSSIONS

1. PLACE AND DURATION

1.1 The First meeting of the MID Region Flight Procedures Programme Steering Committee (MID FPP SC/1) was held virtually, on 26 and 27 January 2022, using MS Teams.

2. OPENING

2.1 The meeting was opened by Mr. Mohamed Abubaker Farea, Regional Director, Middle East Office, who welcomed all the participants. Mr. Farea highlighted that this meeting is held virtually to avoid further delays in the establishment of the programme, and recalled that decisions on different levels were made to establish a Regional entity to support MID States in meeting their obligations related to PANS-OPS. He encouraged States to participate in the programme and the Partners to support the MID FPP Work Plan. He also extended the appreciation to all participants for joining the meeting, including FPP managers from APAC and AFI Regions, and from ICAO HQ (TCB and PCI).

3. ATTENDANCE

3.1 The meeting was attended by a total of fifty-seven (57) participants from fifteen (15) States (Bahrain, Egypt, France, Iran, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia, Sudan, Syria UAE and Yemen) and three (3) International Organizations (ACAO, IATA and IFATCA) in addition to ICAO AFI and APAC MID FPP Managers, Headquarters and the MID FPP Manager. The list of participants is at **Attachment A**.

4. OFFICERS AND SECRETARIAT

4.1 The meeting unanimously elected Mr. Saqr Al Marashda (Manager of Airspace Department at Sheikh Zayed Air Navigation Centre, UAE) as Chairman of the MID FPP Steering Committee.

4.2 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, Regional Officer, Information Management (RO/IM) and Mr. Ahmad Amireh, Regional Officer, Air Traffic Management and Search and Rescue (RO/ATM/SAR).

5. DISCUSSIONS

AGENDA ITEM 1: ADOPTION OF THE PROVISIONAL AGENDA AND ELECTION OF CHAIRPERSON

5.1 The meeting adopted the following Agenda:

Agenda Item 1:	Adoption of the Provisional Agenda and Election of Chairperson
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

5.2 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%20SC1.aspx>.

Introductory: History and Establishment of MIDFPP

5.3 The subject was addressed in PPT/1, presented by the Secretariat.

5.4 The meeting recalled the history of the MID FPP, including the last version of the ProDoc at **Appendix A** signed during the DGCA-MID/5 (Kuwait, 4 – 6 November 2019), by six (6) States: Jordan, Kuwait (Active), Lebanon, Syria, UAE (Host) and Yemen. Saudi Arabia notified that they will initially join the Program as a Donor.

5.5 The meeting was apprised with the current status of PBN implementations in the Region, and the overall rate of the USOAP Effective Implementation (EI) in the MID Region related to PANS-OPS.

5.6 The meeting noted the Technical Arrangement (TA) signed between ICAO and France Direction Générale de l'Aviation Civile (France/DGAC) to establish the cooperation scheme between ICAO/FPP Offices and France/DGAC. The TA aims to organize and plan, in a regular manner, France's contribution to FPPs activities; France/DGAC confirmed its participation in the MID FPP as Donor State by supporting its Work Programme.

Other FPPs Experience

5.7 The subject was addressed in PPT/2 and PPT/3, presented by Africa FPP and APAC FPP Managers, respectively.

5.8 The meeting was apprised with the AFI and APAC FPP programmes establishment context, deliverables, key implementation challenges and their Work Plans, in addition to their funding mechanisms.

5.9 The meeting noted with appreciation the support provided by the AFI and APAC FPP Managers in sharing their experiences with the MID FPP Steering Committee.

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

MIDFPP Work Plan 2022

5.10 The meeting highlighted the MID FPP programme high level objectives included in the ProDoc and reiterated that the programme proposes a variety of training activities, and other PANS-OPS related services, addressing the needs of Participating States, to support them meeting their obligations.

5.11 The meeting agreed that for Phase 1 of the programme, the plan will focus on the capacity building activities and provision of services based on the current capabilities/resources available within the Programme, considering the contribution of Donor States and Partners.

5.12 The meeting noted the specific requests received from States to provide services (including training and consultancy services), to be included in the Work Plan.

5.13 Based on the above, the meeting reviewed and amended the MID FPP Work Plan as at **Appendix B**.

5.14 The meeting encouraged States to communicate with the MID FPP Manager for their specific requests, to be included in the Work Plan 2022.

5.15 The meeting noted with appreciation the support received from France/DGAC, and agreed that the MID FPP Manager will explore the contributions of France/DGAC to support the implementation of the agreed Work Plan 2022.

5.16 The meeting encouraged Donor States and Partners to provide their contributions to the programme, to support its resources (sponsorship, in-kind and financial contributions, providing experts, etc...) and to build its capabilities to enable the implementation of its Work Plan and also to acquire the right to be included in the composition of the Steering Committee.

AGENDA ITEM 3: PROGRAMME SUSTAINABILITY

Current Financial Situation

5.17 The meeting noted the current financial situation of the Programme and the amount of voluntary contributions received from States, namely Qatar, Saudi Arabia and UAE.

5.18 The meeting noted with concern that the total available funds supports the launching of the Programme and covers the expected expenses for the first year. However, the programme sustainability beyond this is challenging.

5.19 The meeting agreed to include in the Work Plan for 2022 activities to increase the income sources and to support its sustainability.

Income Sources and Action Plan

5.20 The meeting reiterated that the main funding and income sources are:

- Revenue generation services and activities (fee schedule for services and training in consultation with ICAO policy);
- Voluntary contributions and donations (sponsorship, in-kind and financial contributions, providing experts, etc.);
- Resource Mobilization (by ICAO); and
- Active States contributions.

5.21 The meeting reviewed the “MID FPP Income resources and revenue generation”, and agreed on the Action Plan, at **Appendix C**, to expand the income sources and support the annual budget.

5.22 The meeting noted that several States (Jordan, Oman, and Sudan) showed the intention to join the Programme as Active States, subject to the amount of the annual contribution.

5.23 The meeting encouraged the States that have expressed their intention to participate as Active States to sign a Letter of Intent to be submitted to the MID FPP and ICAO MID Office, in order to enable the Manager to propose a funding mechanism to the Steering Committee.

Expenditures Forecast

5.24 The meeting noted that the expenditure forecast has been provided by TCB.

5.25 The meeting highlighted that a summary of the MID FPP account (managed by TCB) will be provided to the Manager on Quarterly basis, whom in his turn will provide the annual summary for the SC to review the budget and approve the expenditures.

5.26 Based on the above, the meeting agreed that the MID FPP Manager to provide a detailed financial statement, to enable the SC to take decision related to the annual contribution requested by Active States, against the services that they will receive. The Statement shall include:

- details of available funds,
- expected number of participating States,
- donors and partners contributions,
- revenue generation plan,

- States specific requests, and consultancy services, and
- detailed/updated expenditure forecast.

5.27 The meeting agreed that the financial details will be presented to the upcoming MIDFPP SC meeting(s), to support the decision making related to funding mechanism.

AGENDA ITEM 4: FUTURE WORK PROGRAMME

MIDFPP SC Terms of Reference

5.28 The meeting reviewed the MID FPP Terms of Reference (ToR), at **Appendix D** and agreed that that they might need to be revisited by the upcoming SC meetings, especially with regard to the membership/composition of the SC.

Venue and Date of Next Meetings

5.32 The meeting agreed that based on the Work Programme and the expected developments, the next MID FPP SC meetings will be organized as follows:

- SC/2, April – May 2022, virtual/MID FPP premises.
- SC/3, end of 2022.

5.29 The meeting noted with appreciation the offer received from Jordan to host a MID FPP SC meeting during 2022, however, it was agreed that if the COVID-19 situation improves, it is better to have the SC meetings organized in the MID FPP premises in Abu Dhabi.

AGENDA ITEM 5: ANY OTHER BUSINESS

5.30 The subject was addressed in PPT/4, presented by UAE (Host).

5.31 The meeting noted with appreciation the infrastructure and tools available in the premises of the MID FPP Office within SZC, Abu Dhabi, and the logistics provided by the Host State. The meeting was informed about the need for a Memorandum of Understanding to be signed by ICAO and GCAA/UAE; to facilitate the entry VISA and residency/work permit for the MID FPP Manager.

6. CLOSING

5.32 In closing, Mr. Smaoui thanked the participants for their attendance, and active contribution to the discussion. He also congratulated the elected Chairman for his leadership.

5.33 The participants thanked ICAO MID for organizing such a fruitful meeting.

INTERNATIONAL CIVIL AVIATION ORGANIZATION



**MID REGION FLIGHT PROCEDURE PROGRAMME
(MID FPP)**

Prepared by the

International Civil Aviation Organization (ICAO)

for the

[STATE]

and the

Civil Aviation Administrations of other Participating States

November 2019

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**INTERNATIONAL CIVIL AVIATION ORGANIZATION
PROJECT DOCUMENT**

Project Title: MID Region Flight Procedure Programme (MID FPP)
Project Number: RAB/18801
Duration: 3 years
Project Cost: US\$1,084,700
Participating State: [State]
Sector and Subsector: Air Navigation/Air Traffic Management (ATM)/PANS-OPS
Governments Executing Agency: Civil Aviation Authorities of the MID States
Executing Agency: International Civil Aviation Organization (ICAO)
Location : Abu Dhabi, UAE
Estimated Starting Date: 01 January 2020

- Active State:** A MID Participating State that commits to funding the Programme by means of an annual financial contribution in line with an approved budget
- User State:** A MID Participating State that is not an Active State, but one that intends to use the MID FPP services

Brief Description: The Programme objective is to assist States to develop sustainable capability in the instrument flight procedure (IFP) design, PBN airspace design and PBN OPS approval, including regulatory oversight, so as to meet their commitments under Assembly Resolutions A37-11 for Performance Based Navigation (PBN) implementation and the regional requirements, and comply with ICAO provisions related to flight procedure design and PBN.

Signed by	Signature	Name	Title	Date
State
ICAO

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1. BACKGROUND

1.1 ICAO developed harmonized navigation specifications for all existing area navigation applications, and published these navigation specifications in the Performance Based Navigation (PBN) Manual (Doc. 9613).

1.2 The 37th session of the ICAO Assembly in 2010 in its Resolution A37-11 reaffirmed the global commitment for PBN implementation and called upon the States to complete a PBN implementation plan as a matter of urgency and ICAO to develop a coordinated action plan to assist States in the implementation of PBN and to ensure development and/or maintenance of globally harmonized SARPs, Procedures for Air Navigation Services (PANS) and guidance material including a global harmonized safety assessment methodology to keep pace with operational demands.

1.3 In 2009, ICAO published the Quality Assurance Manual for Flight Procedure Design (Doc. 9906). This document addresses two levels of processes. A high-level process, called the Instrument Flight Procedure (IFP) process, covers all elements from initiation to publication of the procedure and the relevant maintenance, safety, validation and flight inspection activities. The process does not end with publication. Feedback from users must be considered in the improvement process. A second specific process, for the design of the IFP — the Flight Procedure Design (FPD) process — is part of the IFP process.

1.4 The MID Air Navigation Strategy (ICAO MID Doc 002), endorsed by MIDANPIRG, includes the Aviation System Block Upgrades (ASBU) B0-APTA, B0-CCO and B0-CDO Modules, which are considered as priority 1 for implementation in the MID Region. In this respect, the MID FPP would support its Participating States with the implementation of the mentioned Modules.

1.5 The Directors General of Civil Aviation-Middle East (DGCA-MID) Region through the Doha, Declaration, April 2015, agreed to take necessary measures to implement PBN approach procedures with vertical guidance, for all runways ends at international aerodromes, either as the primary approach or as a back-up for the precision approaches by 2017

1.6 The DGCA-MID/2 (Jeddah, Saudi Arabia, 20 - 22 May 2013) recognized the need for cooperation and exchange of experience between MID States in the field of procedure design (PANS-OPS). The meeting through DGCA-MID Conclusion 2/5 agreed that a study related to the establishment of FPP be carried out within the framework of the PBN/GNSS TF taking into consideration similar programs in other ICAO Regions.

1.7 The MIDANPIRG/15 meeting (Bahrain, 8-11 June 2016) emphasized that the establishment of the MID Flight Procedure Programme (MID FPP) would foster the PBN implementation in the Region. The meeting noted that the MID FPP was endorsed as one of the MID Region ATM Enhancement Programme (MAEP) projects.

1.8 The MIDANPIRG/15 meeting noted with appreciation that ICAO is ready to provide necessary support for the establishment of the MID FPP and to share the experience gained from the ASIA-Pacific and AFI FPPs' establishment. Accordingly, the meeting agreed, through Conclusion 15/13, that a Workshop on the establishment of the MID FPP to be held in Cairo, Egypt, 18-19 October 2015, back-to-back with the Second meeting of the MAEP Steering Committee (MAEP SC/2) (20-22 October 2015). The main objective of the Workshop was to develop a framework for establishing an FPP for the MID Region along with the proposed organizational structure, governance procedures, scope of activities and services, work plan and deliverables, resources and financial structure to be presented in a Project Document.

1.9 The MID FPP Workshop developed the draft MID FPP Project Document, which was further reviewed by the PBN SG/2 meeting (Sharm El Sheikh, Egypt, 22-25 February 2016) and circulated to States for their comments and inputs on 16 March 2016.

1.10 The MAEP Board/2 meeting (Cairo, Egypt, 11-13 April 2016) noted that, as a follow-up action to the MAEP SC/2 Draft Conclusion 2/2, the ICAO MID Regional Office circulated a Questionnaire to seek States' willingness to join the MID FPP and/or provide in-kind contributions, get their views regarding the

hosting, identify the States' needs and determine the instrument flight procedures design and PBN capabilities in the MID Region. The meeting reviewed the survey results as presented to the PBN SG/2 meeting and noted with appreciation that the majority of States are supporting the establishment of the MID FPP.

1.11 The MAEP Board/2 meeting received with appreciation three (3) offers for hosting the MID FPP from Egypt, Lebanon and Sudan. The meeting agreed that the evaluation process of the offers should be based on clear criteria and procedure of evaluation.

1.12 The Evaluation Committee met on 26 June 2016 and selected Lebanon as the hosting State for the MID FPP based on the agreed criteria. The selection result was communicated to States through State Letter Ref. AN 6/33 – 16/176 dated 30 June 2016.

1.13 The DGCA-MID/5 meeting (Kuwait, 4-6 November 2019) noted with appreciation that ICAO MID Office managed to secure the required funds, through voluntary contributions from States and ICAO, which will support the launching of the Programme and cover the expenses of the Programme for the first year, providing that five (5) States join the MID FPP through the signature of the MID FPP Project Document.

1.14 The DGCA-MID/5 meeting was informed that the due to escalated situation in Lebanon, which was select as the hos for the MID FPP, the signature of the Project Documents with Lebanon might be delayed. In order to move forward with the launching of Programme and to avoid that part of the secured funds be lost in case the ProDoc is not signed by a Host by December 2019, the DGCA-MID/5 meeting accepted UAE proposal to host the MID FPP.

1.15 The Global Ministerial Aviation (GMA) Summit (Riyadh, Saudi Arabia, 29-31 August 2016) supported the MID FPP and agreed to the following Recommendation:

MID FPP Recommendation

- a. *States are encouraged to sign the MID FPP Project Document*
- b. *States and Stakeholders are encouraged to support:*
 - i. *the establishment of MID FPP through the provision of cash and/or in-kind contributions; and*
 - ii. *the MID FPP activities through the assignment of experts to be part of the MID FPP pool of resources*

1.16 The DGCA-MID/4 meeting (Muscat, Oman, 17-19 October 2017) emphasized that the establishment of the MID FPP would enhance the States' capabilities related to PANS-OPS and eventually foster PBN implementation in the Region. The DGCA-MID/4 meeting agreed to the following Conclusion:

DGCA-MID/4 CONCLUSION 4/3 – MID FLIGHT PROCEDURE PROGRAMME

That:

- a) *States are urged to sign the MID FPP Project Document with ICAO TCB;*
- b) *till the recruitment of a MID FPP Manager/Coordinator, the ICAO MID Office provide full support to run the Programme, in close coordination with the Host State;*
- c) *a Kickoff meeting of the MID FPP be held in January 2018; and*
- d) *States and Stakeholders are urged to participate in the Kickoff meeting of the MID FPP*

2. INSTITUTIONAL FRAMEWORK

2.1. **Participating States:** The Programme will be executed on the basis of the Project Document signed by the Host State (*UAE*) and ICAO and to which any State wishing to participate may sign on. Upon signature onto the Project Document, such State becomes a Participating State. Participating States are grouped in two categories:

- **Active States:** All Participating States that commit to funding the Programme by means of an annual financial contribution in line with an approved budget become an Active State. The Host State (*UAE*) is considered an Active State, based on the in-kind contribution provided to the Programme.
- **User States:** MID States that are not Active States but intend to use the MID FPP services are User States.

2.2. **Donors:** States, organizations and entities that support the MID FPP by financial and/or in-kind contribution (experts, equipment, services, etc.). A specific agreement with the Donor might be required.

2.3. **Observer States:** States that are not Participating States or Donors and are interested in the Programme.

2.4. The Host State's in-kind-contribution related to the hosting of the MID FPP should be taken into account by the MID FPP SC for offsetting its annual financial contribution to the Programme. Contributions in kind from other Participating States may also be taken into account for offsetting their annual financial contribution to the Programme.

Host Administration

2.5. During Phase I of the Programme, *UAE* is the Host Administration. The MID FPP will be located at the Sheikh Zayed Centre in Abu Dhabi, UAE.

MID FPP Organizational Structure



2.6. The Programme will be governed by the MID FPP Steering Committee (MID FPP SC), in accordance with its Terms of Reference at **Appendix A**.

2.7. The MID FPP Manager should present to the ICAO Regional Director, Middle East Office, on a quarterly basis, progress reports related to the Programme developments, recommending necessary measures to improve the effectiveness and efficiency of the Programme. The MID FPP Manager should present progress reports on an annual basis to the MID FPP Steering Committee, including recommendations to improve the performance and efficiency of the Programme.

2.8. The MID FPP Manager will be responsible for the local coordination and the management of the Programme, for maintaining liaison with States and stakeholders as well as ensuring full coordination and cooperation between the MID FPP assigned experts and CAA counterparts. The FPP Manager will also be responsible for the submission of periodic progress reports and for the preparation of the draft Terminal Report prior to the termination of his/her assignment.

Roles and Responsibilities

2.9. In the context of the MID FPP, the roles and responsibilities of the MID FPP Steering Committee, as outlined in **Appendix A**, should include but not be limited to the following:

- review the Programme performance;
- review and approval of the:
 - strategic objectives of the MID FPP;
 - annual Work Plan of the MID FPP;
 - annual Budget;
 - annual financial contribution of the Active States. Contributions in-kind from Participating States may also be taken into account for offsetting their annual financial contribution to the Programme;
 - fee schedule for services and trainings in compliance with ICAO existing Policy; and
 - MID FPP Project Document as deemed necessary.

2.10. The role of the ICAO MID Regional Office is as follows:

- support the MID FPP Manager who is responsible for the execution of the Work Plan approved by the MID FPP Steering Committee;
- collaborate with the MID FPP Manager to develop the work plan;
- ensure that the MID FPP Work Plan is in line with the MID Region priorities and would support States in meeting the regional targets related mainly to PBN implementation;
- monitor PBN implementation and capacity building progress; and
- communicate to the MID FPP the States' needs.

2.11. The role of ICAO Technical Cooperation Bureau (TCB) is as follows:

- Assign a Focal Point for the MID FPP;
- Recruit and deploy the MID FPP Manager;
- procure services and goods in accordance with ICAO's Procurement Code, Financial Regulations and Rules, and applicable process and procedures; and
- provide administrative and financial support to the MID FPP.

2.12. The role of Air Navigation Bureau (ANB) at ICAO Headquarters is as follows:

- review the MID FPP Technical Work Programme/Plan to ensure that it is consistent with the ANB PBN regular programme;
- provide the technical/operational input/advice; and
- facilitate the global coordination amongst the FPPs (African, APAC and MID), specifically on educative tools/presentations etc. as necessary.

2.13. The role of the MID FPP Manager includes but is not limited to the following:

- act as the Secretary of the MID FPP Steering Committee;
- develop the Work Plan in collaboration with the MID Regional Office;
- work under the supervision of the ICAO MID Regional Director;
- report to the MID Office technical and operational matters;
- provide progress reports on the Programme to the relevant MIDANPIRG subsidiary bodies; and
- represent the MID FPP in relevant events that would support the achievements of the MID FPP objectives.

3. CHALLENGES AND OPERATING CONCEPT

Challenges

3.1. Instrument flight procedures developed to take advantage of the benefits of PBN are reliant on the data in a database on the aircraft. For this reason, quality assurance in the flight procedure design process, while always important, takes on added importance for PBN-based procedures. A great safety concern in this respect is that many States lack the expertise to establish a sustainable internal procedure design capability, meeting the requirements of PANS-OPS and their responsibility under Annex 15 for the quality of their aeronautical information and data, including instrument flight procedures.

3.2. Following are some of the main procedure design-related challenges and problems faced by States:

- a) Insufficient number of procedure designers;
- b) Insufficient procedure design work in some States to attain or maintain proficiency;
- c) Lack of airspace and procedure design training: initial, On-the-Job Training (OJT), and/or recurrent;
- d) Lack of knowledge to integrate procedure design efficiently into airspace design;
- e) Lack of depth in procedure design organization to perform quality assurance (QA);
- f) Insufficient expertise in procedure design organization to provide adequate QA of procedures;
- g) Lack of procedure design and obstacle data storage automation in the States;
- h) Lack of operational approval expertise to obtain proper operational approval and to oversee operators for PBN operations;
- i) Lack of regulatory expertise to oversee the process leading to procedure publication; and
- j) Lack of service provision for Air Traffic Control/ Air Traffic Management (ATC/ATM) training for PBN implementation.

Operating Concept

3.3. The MID FPP would serve as a means to assist Participating States to address the issues listed in para 3.2. The MID FPP will foster the implementation of instrument flight procedures, developed with the appropriate quality systems, especially focusing on PBN in Terminal Area and vertically guided instrument approach procedures by:

- a) assisting States with sufficient number of procedures to establish a sustainable internal procedure design capability capable of meeting the requirements of PANS-OPS and their responsibility for the quality of their procedures;

- b) providing the appropriate level of technical expertise necessary to enable States that do not have the volume of procedures necessary to sustain an internal procedure design capability; and
- c) providing a vehicle to improve quality in the States' procedure design process through access to procedure design automation solutions and associated data storage; and assisting States with airspace design and operational approval functions.

3.4. At Participating States' request the MID FPP would:

- a) assist State's procedure and airspace planners in developing their Instrument Flight Procedures (IFP) with priority for PBN procedures;
- b) assist State with the development of a Quality Assurance (QA) system for IFP, including flight procedure regulatory approval;
- c) provide PANS-OPS refresher, recurrent and initial training courses and OJT to procedure designers, remotely, on-site or at the MID FPP location;
- d) provide training course and OJT on QA for IFP including flight procedure regulatory approval;
- e) provide training course and OJT on operators' approval for PBN operations;
- f) assist State in PBN Plan implementation through operational assessment, business case, and activity planning for PBN Implementation;
- g) assist States in the design of IAPs, SIDs, STARs, Continuous Climb Operations (CCO) and Continuous Descent Operations (CDO);
- h) assist State in developing PBN-related regulations;
- i) develop procedures implementation for States that have no or little procedure design capability;
- j) assist State with data origination and validation;
- k) assist State with ground and flight validation;
- l) assist State in operators' approval for PBN operations;
- m) provide training courses for air traffic controllers about PBN flight procedures operations;
- n) provide State with any other associated assistance, as required;
- o) provide training courses for newly recruited flight procedures designers in accordance with ICAO Doc 9906;
- p) assist States with the estimation of environmental benefit accrued from the implementation of instrument flight procedures/PBN procedures; and
- q) assist States with PBN airspace design.

Note: 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.

3.5. As part of the services provided in 3.4 above, the Programme would:

- a) provide States access to procedure design software applications at the MID FPP location; and
- b) provide States access to available databases for training purposes.

3.6. The services listed in 3.4 will be provided free of charge to the Active States. The provision of additional services by MID FPP including the design of new instrument flight procedures, may be against a fee determined based on a cost formula agreed upon by the MID FPP SC.

3.7. User States will be charged for the services provided by the MID FPP in accordance with applicable ICAO policies and as agreed by the MID FPP SC.

3.8. Other States may benefit from the services provided by the MID FPP against fees in accordance with applicable ICAO policies and as agreed by the MID FPP SC.

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.

4. RELEVANT DOCUMENTS

- a) Global Air Navigation Plan (GANP) (Doc 9750)
- b) Procedures for Air Navigation Services (PANS) – Aircraft Operations (Doc 8168)
- c) Performance Based Navigation Manual (Doc 9613)
- d) World Geodetic System Manual (Doc 9674)
- e) Guidelines for Electronic Terrain, Obstacle and Aerodrome Mapping Information (Doc 9881)
- f) Required Navigation Performance – Authorization Required Procedure Design Manual (Doc 9905)
- g) Quality Assurance Manual for Flight Procedure Design (Doc 9906)
- h) Continuous Descent Operations Manual (Doc 9931)
- i) Manual on Use of PBN in Airspace Design (Doc 9992)
- j) Continuous Climb Operations Manual (Doc 9993)
- k) PBN Operational Approval Manual (Doc 9997)
- l) PANS-ATM (Doc 4444)
- m) ICAO Annexes 4, 6, 10, 11, 14 and 15
- n) ICAO Assembly Resolutions A37-11
- o) Manual of All-Weather Operations (Doc 9365)
- p) Aeronautical Charting Manual (Doc 8697)

5. PROGRAMME IMPLEMENTATION STRATEGY

5.1 In order to support the goals of the Assembly Resolution A37-11, GANP and the MID regional requirements, Phase I of the Programme will commence on **1 January 2020** and is expected to last at least until **31 December 2022**.

5.2 The following resources are planned to achieve the Programme objectives for Phase I:

- a) The inputs to be provided by UAE as the Host State are specified at **Appendix B**;
- b) The ICAO MID Office will support setting up the office and building the pool of experts for the MID FPP during the first year and may organize some activities as appropriate funded through the Programme budget;
- c) The MID FPP Manager is appointed by ICAO for a period of one-year renewable. The Job descriptions of the MID FPP Manager are presented in **Appendix C1**;

- d) Experts in PANS-OPS, Airspace Planning, OPS Approval, and Instructors, as well as data specialist may be nominated by States, Organizations, and Industry to create a pool of experts who will support the provisions of the MID FPP services. Their Job descriptions are presented in **Appendices C2, C3, C4 and C5**, respectively. Candidates nominated by Participating States and Donors shall meet the job description requirements. The Regional Director of the MID Office and the Chief of the Programmes Coordination and Implementation Section at ICAO Headquarters in coordination with the MID FPP Manager will evaluate the nominated experts. The appointment of the experts shall be carried out in accordance with the ICAO Policies on Secondment, Consultancy, ICAO Programme for Aviation Volunteers (IPAV), Internship, etc.

5.3 The MID FPP will build its capacity to provide assistance, training, quality assurance, procedure and airspace design, and operational approval to the Participating States. Other specific fields may be identified during implementation. Additional staff may be needed, as deemed necessary, to meet the demand.

5.4 The draft work plan for the first year to be agreed upon by the MID FPP SC is presented at **Appendix D**.

5.5 Implementation strategy detailed in 5.1 through 5.4 herein may be revised by a decision of the MID FPP SC and ICAO.

6. STRATEGIC OBJECTIVES OF THE PROGRAMME

6.1. The strategic objectives of the MID FPP are detailed in **Table 1**.

Note: "T0" in the table refers to the start of operation date of the Programme:

Category		Objective		Target	Remarks
1	Building MID FPP human resources (pool of experts)	a	Assignment of expert by States and stakeholders (PANS-OPS, OPS approval, Airspace Planners, Instructors) to support the MID FPP activities	T0 + 3 Months	
		b	Ensuring competency of the MID FPP experts through training courses and workshops	T0 + 12 Months	
2	Regulatory oversight framework	a	Develop PANS-OPS Regulation for 80% of Active Participating States	T0 + 15 Months	
		b	Assist States as appropriate in meeting the requirements of the USOAP CMA related to PANS-OPS. 100% of Active Participating States receiving USOAP CMA activity to score above 70% EI in PANS-OPS field	T0 + 24 Months	
3	Meeting the targets set out in the MID Region Air Navigation Strategy related to PBN	a	Develop/update PBN National Implementation Plans for 100% of Active Participating States	T0 + 12 Months	
		b	Implementation of PBN flight procedures at 80% runway ends at international	T0 + 24 Months	

			aerodromes of Active Participating States		
		c	Implementation of PBN SIDs and STARs at 70% international aerodromes of Active Participating States, with due regard to incorporate CCO and CDO	T0 + 24 Months	
4	Training Programmes	a	100% of Participating States develop Training Programme for PANS OPS inspectorate	T0 + 18 Months	
		b	100% of Participating States develop Training Programme for PANS OPS technical experts (service provider)	T0 + 18 Months	
		c	Qualify at least one OPS Approval expert for each Active participating State	T0 + 24 Months	

Table. 1

6.2. A review by the MID FPP Steering Committee should be conducted at least one (1) year prior to the end of Phase I to determine whether the Programme should be continued into the next Phase, and if so, the strategic direction that the Programme should take.

7. MID FPP FIRST YEAR OUTPUTS AND ACTIVITIES

7.1 The following outputs and activities, related mainly to the setup of the MID FPP capabilities, are targeted for the first year of the Programme.

Objective 1: Convene the First MID FPP Steering Committee meeting

Outputs	Activities
<u>Output 1.1:</u> Convene the kickoff meeting of MID FPP from 22 to 24 January 2018 to officially launch the Programme	<u>Activity 1.1.1:</u> The ICAO MID Regional Office to issue the invitation for the meeting by 20 November 2017 to the 15 MID States and stakeholders.
<u>Output 1.2:</u> Convene the First MID FPP Steering Committee meeting in in first half of 2020	<u>Activity 1.2.1:</u> The ICAO MID Regional Office to issue the invitation for the first MID FPP SC/1 meeting at least 2 months in advance. <u>Activity 1.2.2:</u> The MID FPP SC/1 meeting to agree on the MID FPP work plan for the first year and the funding mechanism.

Objective 2: Establish capability for PBN Workshop Implementation Plan, using external expertise, if required.

Outputs	Activities
<u>Output 2.1:</u> Establish workshop programme for PBN Implementation Plan	<u>Activity 2.1.1</u> Define external expertise origin and source of funding <u>Activity 2.1.2</u> Determine contents and schedule for the workshop

Objective 3: Establish capability for operational approval of air operators by Civil Aviation Authorities (CAA) course, using external expertise if required.

Outputs	Activities
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<u>Output 3.1:</u> Establish workshop programme for operational approval of air operators by CAA	<u>Activity3.1.1:</u> Define external expertise origin and source of funding <u>Activity 3.1.2:</u> Determine contents and schedule for the course
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Objective 4: Establish capability for airspace design course, using external expertise if required.

Outputs	Activities
<u>Output 4.1:</u> Establish workshop programme for Airspace Design Course	<u>Activity 4.1.1:</u> Define external expertise origin and source of funding <u>Activity 4.1.2:</u> Determine contents and schedule for the course

Objective 5: Establish operating capability of the MID FPP in the areas of procedure design including initial PANS-OPS, PBN and OJT (On-The-Job) training capability.

Outputs	Activities
<u>Output 5.1:</u> Establish automation system for the input, storage and output of aeronautical data required for the instrument flight procedure process, based on global standards that will interface with flight procedure design automation tools and avionics database packing tools	<u>Activity 5.1.1:</u> Install automated software and middleware supporting on the software on technical computers of the internal network
<u>Output 5.2:</u> Establish initial procedure design and OJT (On-The-Job) training capabilities.	<u>Activity 5.2.1:</u> Train procedure designers as instructors. <u>Activity 5.2.2:</u> Determine contents for procedure design training sessions and OJT sessions

Objective 6: Establish Flight Procedure validation process and regulatory approval process support capability.

Outputs	Activities
<u>Output 6.1:</u> Establishment of Flight Procedure validation process support capability	<u>Activity 6.1.1:</u> Identify a list and pricing or through in-kind contribution of Flight procedure validation suppliers to cover MID Region to establish initial Flight procedure validation capability, <u>Activity 6.1.2:</u> Train MID FPP staff in Flight Procedure design ground validation process. <u>Activity 6.1.3:</u> Establish a support framework to assist States in validating instrument flight procedures.
<u>Output 6.2:</u> Establishment of Flight Procedure regulatory approval process support capability	<u>Activity 6.2.1:</u> Train MID FPP staff in Flight Procedure regulatory validation process based on Doc 9906 (Quality Assurance Manual), examples from competent States (at least three) and consultation with ICAO <u>Activity 6.2.2:</u> Continue updating the training as new ICAO documentation becomes available. <u>Activity 6.2.3:</u> Establish a support framework to assist States in approving instrument flight procedures

Objective 7: Execute -2020 MID FPP annual work plan, as at **Appendix D**.

Outputs	Activities
<u>Output 7.1:</u> Successful execution of MID FPP 2020 annual work plan	<p><u>Activity 7.1.1:</u> Provide to Member States the schedule list of training and support activities.</p> <p><u>Activity 7.1.2:</u> Provide trainings and support activities according to annual work plan.</p> <p><u>Activity 7.1.3:</u> initiate procedure design projects for the top priority runway ends identified in consultation with the airspace users.</p>

Objective 8: Attain the full capability for MID FPP for Phase I.

Outputs	Activities
<u>Output 8.1:</u> Establish a pool of specialists in PANS-OPS, OPS Approval and Instrument Flight procedures Instructors who will mainly work remotely with the MID FPP Manager (on-call basis).	<p><u>Activity 8.1.1:</u> Establish selection process and identify a pool of suitable candidates, preferably through approaching MID States, Organizations, Airlines, and Donors, according to the job descriptions at Appendices C2-C5.</p> <p><u>Activity 8.1.2:</u> select the required pool of resources for the execution of the MID FPP work plan.</p>

Objective 9: Obtain approved work plan, budget and agreement on annual States contribution for the second year of operation

Outputs	Activities
<u>Output 9.1:</u> Obtain approved work plan, budget and agreement on States contribution for the second year.	<p><u>Activity 9.1.1:</u> provide progress report on the implementation of - 2020 work plan to PBN SG and/or MIDANPIRG meetings</p> <p><u>Activity 9.1.2:</u> Prepare and propose work plan, budget and annual States contribution level for the second year.</p>

8. INPUTS

8.1. The minimum requirements for the hosting of the MID FPP are specified in **Appendix B**.

8.2. By 1 January 2020, UAE as the Host Administration will provide the facilities and services as outlined in **Appendix B**.

8.3. The Host State will facilitate the issuances of visas, accreditations or residence permits for the ICAO experts and recognized dependents ensuring the expeditious relocation of them at the duty station and for the whole duration of their ICAO contracts and subsequent renewals.

Active States

8.4. Active States will provide the following:

- a) annual financial contributions covering the cost of the Programme, as indicated in the annual budget of the Programme; and
- b) participation in the MID FPP SC meetings as Member States with the right to vote.

Participating States

- a) Participating States might provide in-kind contribution to support the MID FPP such as:
 - Computer and Information Technology equipment.
 - Procedure design and charting equipment and software.
 - Suitably equipped classroom(s) for MID FPP training courses held in their States.

- b) support the MID FPP by nominating Procedure Designers, Instructors, Airspace Planners, OPS Approval experts, etc. to support the MID FPP with the implementation of its work plan;
- c) authorize and release to the MID FPP of aeronautical data from third parties, including AIP and electronic terrain and obstacle data, as well as appropriate topographic mapping data and charts pertaining to their State for the purposes of the Programme, in particular for the design of instrument flight procedures and for quality assurance assistance;
- d) bear the expenses of duty travel (Air Tickets, Transportation, Accommodation and Daily Subsistence Allowances, in accordance to ICAO policies and practices) of MID FPP and ICAO staff as required supporting the MID FPP activities in their States.
- e) release of the assigned experts from their daily duties in order to support the MID FPP activities using their facilities (software, etc.), as required; and
- f) complete all remaining necessary steps to publish instrument flight procedures developed wholly or partly within the MID FPP framework in their State Aeronautical Information Publication.

ICAO (funded by the FPP Programme)

8.5. ICAO will provide the following:

- a) the funds for the running cost of the MID FPP for the first year.
- b) full support from the ICAO MID Office to run the Programme, in close coordination with the Host State, until such a time when the recruitment of a MID FPP Manager is completed;
- c) International Personnel (Programme Manager) for the MID FPP for 3 years;
- d) mission travel of ICAO personnel for monitoring purposes;
- e) administrative and other services for the handling of the Programme;
- f) financial account management and budgetary control of the Programme;
- g) technical support to the Programme experts in the performance of their duties including monitoring missions; and
- h) procurement through TCB: turn-key services for the procurement of goods and services as requested by the MID FPP SC; provided the requisite funds are made available and the project budget is revised, as appropriate. The procurement of equipment or services will be carried out in accordance with ICAO’s Procurement Code, Financial Regulations and Rules, and applicable process and procedures.

9. RISKS, MITIGATION MEASURES AND PREREQUISITES

Risks and Risk Levels

9.1. The following are the main identified risks with their associated level:

Risks	Risk Level
a) Delay in the recruitment of MID FPP Manager	High
b) Delays in transfer of funds to ICAO	High
c) Delays in sourcing OPS Approval Instructor	High
d) Delays in nominating of experts from participating States and Organizations	Medium to High
e) Delays in identification of suitably qualified candidates for positions	Medium to High
f) Delays in sourcing of implementation workshop facilitator	Low
g) Delays in MID FPP expert training as Procedure Design Instructor	Low

Risk Mitigation Measures

- 9.2. It may be considered that low level in risk is acceptable and does not need any mitigation measure.
- 9.3. Considering the high and medium to high level for delays in:
- a) Delay in transferring fund to MID FPP account: follow-up by ICAO with the concerned States and Donors would mitigate the risk to an acceptable low level;
 - b) Delay in the recruitment of the MID FPP Manager: the MID Office, based on the Steering Committee approval, could set up the Programme in coordination with the host State, establish the pool of expertise, and initiate the implementation of some activity from the first year's work plan, until the recruitment of the Manager. This action could mitigate the risk to an acceptable low level;
 - c) Designation and release of experts by States: the MID FPP work plan could be difficult to implement. The MID FPP activity supposed to be provided by the missing expert would be replaced by another activity with capacity to provide. This action could mitigate the risk to an acceptable low level; and
 - d) Identification of suitably qualified candidates: MID FPP Manager will support States with the identification of candidates. This mitigation could reduce risk to medium level. The MID FPP activity supposed to be provided by the missing nominated expert would be replaced by another activity that MID FPP is in capacity to provide. This action could mitigate the risk to an acceptable low level.

Pre-requisites

- 9.4. The Project Document should be signed by the host State and a minimum of four (4) Active States before the start of the Programme to ensure funding for the Annual Budget and to permit the MID FPP to perform its activities effectively and efficiently.
- 9.5. The establishment of the pool of resources and the readiness of the premises.

10. PROGRAMME WORK PLAN

- 10.1 The work plan for the first year is provided at **Appendix D**.

11. PROGRAMME BUDGET

- 11.1 MID FPP budget is composed of resources and expenses.

Resources are composed of:

- Annual contribution paid by the Active States;
- Cash contribution provided by Donors; and
- Fees paid by States in relation to services provided by MID FPP as outlined in Section 3.

Expenses mainly relate to:

- Manager Salary and allowances;
- Allowances paid to MID FPP experts;
- Workshops and courses organization, consultant expertise costs,
- Travel Missions Expenses (travel, transportation and DSA),
- Office costs, and
- Administrative Overhead.

11.2 The activities/events should normally be convened at the MID FPP premises. If a State/Organization offers to host an activity, it shall coordinate with the MID FPP Manager as early as possible, but in any case at least six (06) months in advance and, shall be responsible for providing a venue, services and all costs of travel, accommodation and daily subsistence allowance for MID FPP experts, ICAO personnel, Instructors and Experts performing the activity.

11.3 The Programme budget corresponding to Phase I is provided at **Appendix E**.

12. LEGAL FRAMEWORK

12.1 The funds and activities under this Agreement shall be administered according to applicable ICAO regulations, rules, directives, procedures and practices.

12.2 The obligations assumed by the parties under this Agreement shall continue to exist after termination of this Agreement to the extent necessary to permit the orderly finalization of activities, the withdrawal of personnel, the distribution of funds and assets, the liquidation of accounts existing between the parties, and the settlement of contractual obligations. Additional funds, if necessary, to cover the above-mentioned expenditures shall be provided by the Participating States.

12.3 All cash receipts to, and payments made by, ICAO under this Agreement shall be recorded in a separate account, opened, inter alia, in order to place on record the receipt and administration of payments. All payments made to ICAO shall be made in U.S. dollars and deposited in ICAO's bank account as follows:

Pay to://CC000305101
Royal Bank of Canada
Ste. Catherine and Stanley Branch
1140 Ste. Catherine Street West
Montreal, Quebec
Canada H3B 1H7
For credit to: 05101 404 6 892
Project: RAB/18/801
ICAO Account
Swift code: ROYCCAT2

12.4 ICAO shall not be obliged to begin or continue the provision of the Services until the payments of this Agreement have been received and ICAO shall not be obliged to pay or commit any sums exceeding the funds deposited in the aforementioned account.

12.5 ICAO shall furnish the Participating States with unaudited financial statements concerning the Services covered in this Agreement, showing the status of the funds in U.S. dollars as at the end of March, June, September and December. After ICAO has concluded the provision of the Services, it shall submit a final financial statement. In the event that the Participating State(s) requests that a special audit/evaluation of its account or project under this Agreement be performed by the Internal or External Auditor of ICAO, the Participating State(s) shall bear the cost of such audit.

12.6 If due to unforeseen circumstances the funds received under this Agreement should prove insufficient to cover the total cost of provision of the Services and Administrative Charges, ICAO shall inform the Participating States to that effect and additional funds, if required, shall be made available to ICAO before the continuation of the project

12.7 Any dispute, controversy or claim arising out of or relating to this Agreement, or the breach, termination or invalidity thereof, shall be settled, in the first instance, by direct negotiations between the parties. If unsuccessful, such dispute, controversy or claim shall be settled by arbitration in accordance with the United Nations Commission on International Trade Law (UNCITRAL) Arbitration Rules, as in force at the time of arbitration. The place of arbitration shall be Montreal, Province of Quebec, Canada, conducted in the English language. Arbitration shall be conducted by one arbitrator. The arbitral award shall contain a

statement of reasons on which it is based and shall be accepted by the Parties as the final adjudication of the dispute.

12.8 Nothing in or relating to this Agreement shall be deemed a waiver, express or implied, of any immunity from suit or legal process or any privilege, exemption or other immunity enjoyed or which may be enjoyed by ICAO, its officers, staff, assets and funds either pursuant to the Convention on the Privileges and Immunities of the Specialized Agencies, 1947 or other applicable conventions, agreements, laws or decrees

12.9 The Participating States shall indemnify, hold harmless and, in consultation with ICAO, defend ICAO, including its personnel from any and all actions, claims or other demands arising out of any act performed by ICAO on behalf of the Participating States pursuant to this Agreement.

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 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:

- a) MID FPP Active States: Directors General of Civil Aviation of the MID FPP Active States, or their designated representatives;
- b) ICAO: Regional Director, Middle East Office, Director, Technical Cooperation Bureau (TCB), and Chief of Programmes Coordination and Implementation Section (ANB/PCI) or their representatives; and
- c) MID FPP Manager, who will act also as the Secretary of the Steering Committee meetings.

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 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.

MID FPP MINIMUM OFFICE REQUIREMENTS

MID FPP staff	
	<ul style="list-style-type: none"> • Programme Manager (1) Full Time Recruited by ICAO TCB • 5 to 10 Procedure Designers and Airspace Planners, 2- to 4 OPS Approval experts and 2 to 4 PD Instructors assigned by States and Donors, who will work on-call-basis. • PANS-OPS Specialist, Data Specialist (1), Administrative Assistant (1) and/or IT Specialist (1) should be seconded when needed in compliance with the ICAO policy on secondment.
Office space	
1 office	<ul style="list-style-type: none"> • Programme Manager
1 office	<ul style="list-style-type: none"> • PANS-OPS Expert
1 room	<ul style="list-style-type: none"> • Lab for procedure design
1 room	<ul style="list-style-type: none"> • Classroom/ Meeting room
Furniture equipment	
Manager	<ul style="list-style-type: none"> • Desk and chair • Storage/File cabinet • Book case • Conference table (6 persons) and chairs • Monitor/Webcam for conferences
Offices	<ul style="list-style-type: none"> • Standard furniture for all offices • Desk, chair, storage/file cabinet, book case – per person
Classroom OJT room	<ul style="list-style-type: none"> • Adequate space for 20 students • 4 drawing tables • White boards • Student tables • Projector
Meeting room	<ul style="list-style-type: none"> • Adequate equipment for 20 persons
IT equipment	
	<ul style="list-style-type: none"> • Secure Wi-Fi Internet connection • Desk-top Phone with international services • 1 Mobile phone (Manager) <ul style="list-style-type: none"> – Laptop computer with docking station – monitor 19" • Data Specialist when seconded <ul style="list-style-type: none"> – Office computer equipment (monitor 19") • External storage disks • 1 desktop multi-functional color copier/scanner/printer
Procedure Design equipment	
Offices	<ul style="list-style-type: none"> • Maps Storage cabinet • Maps A3 printer • A0 scanner • A0 printer Semi-professional • GPS • 1 server and 2 workstations (PCs)
Classroom	<ul style="list-style-type: none"> • Computer Data Projector • Supplies for training sessions : set squares, protractors, compasses, rulers and pocket calculators
software	<ul style="list-style-type: none"> • 2 Procedure Design Software Licenses • 2 GOOGLE EARTH licenses • 2 ACROBAT READER licenses • 2 COREL DRAW licenses • 2 virtual machines (such as VMWARE) licenses for the remotely use of the Procedure Design Software

APPENDIX C - JOB DESCRIPTION



International Civil Aviation Organization Technical Cooperation Bureau – Job Description

POSITION INFORMATION

Generic Title:	Programme Manager	Position Number (ID):	
Specific Title:	MID FPP Manager	Job Card:	
Project Number:		Post Number/Job Code:	
Duty Station:	TBD	CCOG code:	
Duration:	1 year	Starting Date:	1 January 2020

ORGANISATIONAL SETTING

Under the direction of the Director/Technical Cooperation Bureau, the Field Operations Section is responsible for the strategic planning, development, execution and evaluation of Projects in TCB. The Section assists with the identification of priority development requirements across civil aviation and with technical cooperation to recipient States. It carries out resource mobilization with multilateral and bilateral development partners and industry and develops regional and country specific technical cooperation programmes and projects. The Section executes these programmes and projects in accordance with the policies and contractual modalities of TCB.

MAJOR DUTIES AND RESPONSIBILITIES

Under the direction of the ICAO Middle East Regional Director and in cooperation with the national counterparts and other MID FPP Programme personnel:

- work with ICAO and the participating States on the establishment of the MID FPP Office and commencement of operations, including establishment of office capability and processes;
- be responsible for all aspects of the operation and management of the Flight Procedure Programme to include Programme coordination functions, personnel resourcing and training, office software and automation implementation, work plans, travel, and budget;
- implement of the work plan agreed upon by the MID FPP Steering Committee;
- perform frequent coordination with ICAO MID Regional Office, other FPP offices, sub-regional groups, international and regional Organizations and States on issues related to FPP operations;
- foster positive relationships and cooperation among assigned staff, international experts, nominated experts, seconded officers and CAA counterparts;
- identify, and develop Programme resources;
- report on a quarterly basis to the MID FPP Steering Committee and the ICAO Middle East Regional Director, on the progress of the FPP to include:
 - a. Programme Status (Interim or Full Operational Capability, status of resources, budget, etc.);
 - b. Accomplishments (since last report);
 - c. Objectives for the next reporting period; and
 - d. Other (new requirements, concerns, issues, etc.)
- develop and amend business plans (deliverables, timeline, budget and concerned entities) for MID FPP and recommends them to the Steering Committee;
- develop Key Performance Indicators (KPIs) to monitor the implementation, assess and measure the effectiveness of the Programme;
- identify and report Programme risk to the MID FPP SC and maintain a risk database;
- assign projects to the MID FPP personnel;
- supervise/monitor the performance of the MID FPP Specialists; and
- perform other related duties as required.

QUALIFICATIONS AND EXPERIENCE

Educational background

A first level university degree in aeronautics, ATM, or in a related field, is required. A technical qualification in aviation such as an Airline Transport Pilot License (ATPL) and Air Traffic Control (ATC) License may be accepted in lieu of a university degree.

Professional experience and knowledge

- At least 10 years' operational experience as PANS-OPS Specialist, Airspace Planner, pilot or Air Traffic Controller, with a good understanding of instrument flight procedure design process. A working knowledge of the Ops Approval and Airspace Design processes is highly desirable.
- Knowledge in aeronautical data quality and trajectories' publication.
- At least 5 years' aviation management experience.
- Knowledge of the ICAO GANP as well as the Performance Based Navigation (PBN) concept, objectives and supporting ICAO provisions and guidance.
- Ability to work and coordinate with civil aviation officials at all levels, as well as industry, regional and sub-regional groups, to accomplish the goals of the Programme.
- Ability to successfully lead major projects under a team structure; Experience in team management with the ability to foster and maintain harmonious, positive working relationships in a multi-national environment.
- Satisfactory completion of PANS-OPS, Airspace planning or PBN course(s).
- Satisfactory completion of the ICAO online course related to PBN.
- Knowledge of the process related to the development of IFPs for conventional and PBN procedures.
- Completion of SMS or Quality assurance course(s) with knowledge about the implementation of Flight Procedure Design Quality Assurance (Doc 9906) requirements.
- Experience using Flight Procedure Design automation systems for flight procedure design is preferable.
- Experience as an Instrument Flight Procedure Design Instructor for ICAO PANS-OPS (Doc 8168) courses is preferable.

Language Skills

Essential

- Fluent reading, writing and speaking abilities in English is essential.

Desirable

- A working knowledge of Arabic is an asset

Competencies

- **Judgment/Decision-Making:** Demonstrated ability to take ownership of all responsibilities and commitments, to exercise a mature opinion, to recognize key issues and analyse relevant information, to formulate viable recommendations and make decisions.
- **Vision:** Identifies strategic issues, opportunities and risks.
- **Leadership:** Drives for change and improvement, does not accept the status quo, establishes and maintains relationships with a broad range of people to understand needs and gain support.
- **Managing Performance:** Monitor progress against milestones and deadlines.
- **Building Trust:** Operates with transparency, treats sensitive or confidential information appropriately.
- **Teamwork:** Ability to work with colleagues to achieve the project objectives and maintain harmonious working relations in a multinational environment.
- **Client Orientation:** Ability to establish and maintain partnerships with outside partners, to work and argue effectively in a system based on consensus and to successfully manage and resolve conflicts.
- **Communication:** Ability to write clearly and concisely and present oral reports.

REMUNERATION

APPENDIX B - JOB DESCRIPTION



International Civil Aviation Organization Technical Cooperation Bureau – Job Description

POSITION INFORMATION

Generic Title:	Procedure Designer	Position Number (ID):	
Specific Title:	Procedure Designer	Job Card:	
Project Number:		Post Number/Job Code:	
Duty Station:	Remotely	CCOG code:	
Duration:	1 year	Starting Date:	

ORGANISATIONAL SETTING

Under the direction of the Director/Technical Cooperation Bureau, the Field Operations Section is responsible for the strategic planning, development, execution and evaluation of Projects in TCB. The Section assists with the identification of priority development requirements across civil aviation and with technical cooperation to recipient States. It carries out resource mobilization with multilateral and bilateral development partners and industry and develops regional and country specific technical cooperation programmes and projects. The Section executes these programmes and projects in accordance with the policies and contractual modalities of TCB.

MAJOR DUTIES AND RESPONSIBILITIES

Under the direction of the ICAO Middle East Regional and with the supervision of the MID FPP Manager:

- design instrument flight procedures;
- review, verify, maintain and make sure that the flight procedure is ready for the final approval;
- guarantee a quality assurance in the flight procedure design;
- provide OJT training to new procedure designers;
- maintain a well-structured database for obstacles assessment; and
- perform other related duties as assigned.

QUALIFICATIONS AND EXPERIENCE

Educational background

University degree or equivalent qualifications and experience in the air navigation.

Professional experience and knowledge

- Minimum five (5) years' experience at increasing levels of responsibility in flight procedure design
- Experience in aviation operations as a pilot, navigator or air traffic controller is desirable.
- Satisfactory completion of an approved PANS OPS instrument flight procedures design courses and advanced courses on PANS OPS instrument flight procedures design (PBN, RNAV, GBAS, etc.) at a specialized recognized institution.
- Knowledge in the aeronautical information conceptual and exchange model (AIXM), automation, digital terrain model (DTM), geographic information systems and cartography.
- Experience in the use of flight procedure design software.
- Knowledge in participating in the work of International Organization for Standardization (ISO) and quality assurance.
- Thorough knowledge of ICAO Standards and Recommended Practices (SARPs) and Procedures for Air Navigation Services (PANS).
- Ability to write clearly and concisely detailed technical and specialized reports and to make verbal presentations.
- Ability to develop clear goals that are consistent with agreed strategies.

Language Skills

Essential

- Good command of oral and written English is essential.

Desirable

- A working knowledge of Arabic is an asset.

Competencies

- **Judgment/Decision-Making:** Demonstrated ability to take ownership of all responsibilities and commitments, to exercise a mature opinion, to recognize key issues and analyse relevant information, to formulate viable recommendations and make decisions.
- **Vision:** Identifies strategic issues, opportunities and risks.
- **Leadership:** Drives for change and improvement, does not accept the status quo, establishes and maintains relationships with a broad range of people to understand needs and gain support.
- **Managing Performance:** Monitor progress against milestones and deadlines.
- **Building Trust:** Operates with transparency, treats sensitive or confidential information appropriately.
- **Teamwork:** Ability to work with colleagues to achieve the project objectives and maintain harmonious working relations in a multinational environment.
- **Client Orientation:** Ability to establish and maintain partnerships with outside partners, to work and argue effectively in a system based on consensus and to successfully manage and resolve conflicts.
- **Communication:** Ability to write clearly and concisely and present oral reports.

REMUNERATION

APPENDIX B - JOB DESCRIPTION



International Civil Aviation Organization Technical Cooperation Bureau – Job Description

POSITION INFORMATION

Generic Title:	Instructor	Position Number (ID):	
Specific Title:	Instructor	Job Card:	
Project Number:		Post Number/Job Code:	
Duty Station:	Remotely	CCOG code:	
Duration:	1 year	Starting Date:	

ORGANISATIONAL SETTING

Under the direction of the Director/Technical Cooperation Bureau, the Field Operations Section is responsible for the strategic planning, development, execution and evaluation of Projects in TCB. The Section assists with the identification of priority development requirements across civil aviation and with technical cooperation to recipient States. It carries out resource mobilization with multilateral and bilateral development partners and industry and develops regional and country specific technical cooperation programmes and projects. The Section executes these programmes and projects in accordance with the policies and contractual modalities of TCB.

MAJOR DUTIES AND RESPONSIBILITIES

Under the direction of the ICAO Middle East Regional and with the supervision of the MID FPP Manager:

- conduct airspace planning, procedure design and OPS Approval courses as tasked by the MID FPP Manager; and
- perform other related duties as assigned by the MID FPP Manager.

QUALIFICATIONS AND EXPERIENCE

Educational background

University degree or equivalent qualifications and experience in the air navigation.

Professional experience and knowledge

- Significant aviation experience as air traffic controller or a pilot or demonstrated equivalencies.
- Significant experience as Instrument Flight Procedure Design specialist with extensive knowledge of ICAO PANS-OPS (Doc 8168) and ICAO PBN (Doc 9613) requirements.
- Significant experience as an Airspace Design specialist with knowledge of ICAO use of PBN in Airspace Design (ICAO Doc 9992).
- Training and Experience as an Instrument Flight Procedure Design Instructor for ICAO PANS-OPS (Doc 8168) courses with thorough understanding of teaching techniques and assessment methods is desirable.
- Thorough understanding of Flight Procedure Design Quality Assurance (Doc 9906) requirements and its implementation.

Language Skills

Essential

- Good command of oral and written English is essential.

Desirable

- A working knowledge of Arabic is an asset.

Competencies

- **Judgment/Decision-Making:** Demonstrated ability to take ownership of all responsibilities and commitments, to exercise a mature opinion, to recognize key issues and analyse relevant information, to formulate viable recommendations and make decisions.
- **Vision:** Identifies strategic issues, opportunities and risks.
- **Leadership:** Drives for change and improvement, does not accept the status quo, establishes and maintains relationships with a broad range of people to understand needs and gain support.
- **Managing Performance:** Monitor progress against milestones and deadlines.
- **Building Trust:** Operates with transparency, treats sensitive or confidential information appropriately.
- **Teamwork:** Ability to work with colleagues to achieve the project objectives and maintain harmonious working relations in a multinational environment.
- **Client Orientation:** Ability to establish and maintain partnerships with outside partners, to work and argue effectively in a system based on consensus and to successfully manage and resolve conflicts.
- **Communication:** Ability to write clearly and concisely and present oral reports.

REMUNERATION

APPENDIX B - JOB DESCRIPTIONS



International Civil Aviation Organization Technical Cooperation Bureau – Job Description

POSITION INFORMATION

Generic Title:	OPS approval Expert	Position Number (ID):	
Specific Title:	OPS approval Expert	Job Card:	
Project Number:		Post Number/Job Code:	
Duty Station:	Remotely	CCOG code:	
Duration:	1 year	Starting Date:	

ORGANISATIONAL SETTING

Under the direction of the Director/Technical Cooperation Bureau, the Field Operations Section is responsible for the strategic planning, development, execution and evaluation of Projects in TCB. The Section assists with the identification of priority development requirements across civil aviation and with technical cooperation to recipient States. It carries out resource mobilization with multilateral and bilateral development partners and industry and develops regional and country specific technical cooperation programmes and projects. The Section executes these programmes and projects in accordance with the policies and contractual modalities of TCB.

MAJOR DUTIES AND RESPONSIBILITIES

Under the direction of the ICAO Middle East Regional and with the supervision of the MID FPP Manager:

- assist States with the developments/implementation of flight procedure regulatory approval as tasked by the MID FPP Manager;
- review, verify, maintain and make sure that the flight procedure is ready for the final approval;
- provide on-the-job training to OPS Approval experts; and
- perform other related duties as assigned

QUALIFICATIONS AND EXPERIENCE

Educational background

University degree or equivalent qualifications and experience in the air navigation.

Professional experience and knowledge

- Satisfactory completion of formal PANS-OPS course(s) to cover the conventional and PBN procedure design criteria.
- Experience in the development of IFPs for conventional and PBN procedures.
- Understanding of Flight Procedure Design Quality Assurance (Doc 9906) requirements and its implementation.
- Experience using Flight Procedure Design automation systems for flight procedure design is preferable.
- Experience as an Instrument Flight Procedure Design Instructor for ICAO PANS-OPS (Doc 8168) courses is preferable.
- Experience of working with CAAs (Regulatory authorities).

Language Skills

Essential

- Good command of oral and written English is essential.

Desirable

- A working knowledge of Arabic is an asset.

Competencies

- **Judgment/Decision-Making:** Demonstrated ability to take ownership of all responsibilities and commitments, to exercise a mature opinion, to recognize key issues and analyse relevant information, to formulate viable recommendations and make decisions.
- **Vision:** Identifies strategic issues, opportunities and risks.
- **Leadership:** Drives for change and improvement, does not accept the status quo, establishes and maintains relationships with a broad range of people to understand needs and gain support.
- **Managing Performance:** Monitor progress against milestones and deadlines.
- **Building Trust:** Operates with transparency, treats sensitive or confidential information appropriately.
- **Teamwork:** Ability to work with colleagues to achieve the project objectives and maintain harmonious working relations in a multinational environment.
- **Client Orientation:** Ability to establish and maintain partnerships with outside partners, to work and argue effectively in a system based on consensus and to successfully manage and resolve conflicts.
- **Communication:** Ability to write clearly and concisely and present oral reports.

REMUNERATION

APPENDIX B - JOB DESCRIPTIONS



International Civil Aviation Organization Technical Cooperation Bureau – Job Description

POSITION INFORMATION

Generic Title:	Data Specialist	Position Number (ID):	
Specific Title:	Data Specialist	Job Card:	
Project Number:		Post Number/Job Code:	
Duty Station:	TBD	CCOG code:	
Duration:	1 year	Starting Date:	

ORGANISATIONAL SETTING

Under the direction of the Director/Technical Cooperation Bureau, the Field Operations Section is responsible for the strategic planning, development, execution and evaluation of Projects in TCB. The Section assists with the identification of priority development requirements across civil aviation and with technical cooperation to recipient States. It carries out resource mobilization with multilateral and bilateral development partners and industry and develops regional and country specific technical cooperation programmes and projects. The Section executes these programmes and projects in accordance with the policies and contractual modalities of TCB.

MAJOR DUTIES AND RESPONSIBILITIES

Under the direction of the ICAO Middle East Regional and with the supervision of the MID FPP Manager:

- establish and update MID FPP data base of aeronautical data to support procedure design;
- acquire and store obstacle data to support procedure design; and
- perform other related duties as assigned

QUALIFICATIONS AND EXPERIENCE

Educational background

University degree or equivalent qualifications and experience in the air navigation.

Professional experience and knowledge

- Significant experience in aeronautical data management.
- Knowledge of ICAO PANS-OPS (Doc 8168) and ICAO PBN (Doc 9613) data requirements.
- Thorough understanding of Flight Procedure Design Quality Assurance (Doc 9906) requirements and its implementation.
- Training and experience using Flight Procedure Design automation systems for flight procedure design.
- Experience of working with CAAs, preferably in the MID Region.

Language Skills

Essential

- Good command of oral and written English is essential.

Desirable

- A working knowledge of Arabic is an asset.

Competencies

- **Judgment/Decision-Making:** Demonstrated ability to take ownership of all responsibilities and commitments, to exercise a mature opinion, to recognize key issues and analyse relevant information, to formulate viable

recommendations and make decisions.

- **Vision:** Identifies strategic issues, opportunities and risks.
- **Leadership:** Drives for change and improvement, does not accept the status quo, establishes and maintains relationships with a broad range of people to understand needs and gain support.
- **Managing Performance:** Monitor progress against milestones and deadlines.
- **Building Trust:** Operates with transparency, treats sensitive or confidential information appropriately.
- **Teamwork:** Ability to work with colleagues to achieve the project objectives and maintain harmonious working relations in a multinational environment.
- **Client Orientation:** Ability to establish and maintain partnerships with outside partners, to work and argue effectively in a system based on consensus and to successfully manage and resolve conflicts.
- **Communication:** Ability to write clearly and concisely and present oral reports.

REMUNERATION

ICAO MID FPP PROVISIONAL WORK PLAN 2020

MID FPP Objectives for Year 1 (2020)

The first year will be an important year for the MID Region Flight Procedures Programme (MID FPP). The purpose of the Programme is to provide opportunity to use the training activities and services proposed by the Programme for Participating States.

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, ASBU B0-APTA and the Global and regional requirements, the MID FPP training programme is composed of workshops, training courses and support activities. The training activities centered on PBN Implementation Plan, regulatory approval procedures and PBN OPS Approval for operators have to be considered as essential to improve or start PBN implementation in States.

On the other hand, specific projects and implementation support activities will assist Participating States to consolidate or implement the instrument flight procedures through ground validation and approval process. These activities will allow the Participating States to expedite or to make the first steps for implementing PBN flight procedures in the Region.

The MID FPP Objectives for 2020 are as follows;

- Commence Phase I MID FPP operations on **01 January 2020**;
- Conduct 4 Training activities; and
- Conduct 2 Project-orientated implementation support activities

MID FPP Training Activities for-2020

1) PBN Implementation Workshop--5 days – [date]

Description: This PBN Implementation Workshop is intended to assist States/Administrations in enhancing their PBN Implementation Plans and move forward with actual PBN implementations. The Workshop will also provide updated information regarding global PBN activities and how PBN can be an enabler for enhancing ATM operations. During the workshops, the participants with assistance from MID FPP facilitators will develop a list of short-term action items aiming to enhance their existing PBN Implementation Plans and advance their on-going PBN implementations and deployments. The list of action items along with relevant recommendations will then be submitted to appropriate CAAs for their actions.

Participants to these workshops should be representatives from all aviation stakeholders with an interest in PBN implementation.

- Facilitator – TBD
- Coordination/Sponsorship –TBD
- Material – ANB, APAC FPP, AFI FPP, MID FPP
- Facility – TBD
- Funding – TBD

2) PBN Ops Approval Course - 1 week - [date]

Description: The course is based on ICAO Doc 9997 and conducts to support States in developing their operational approval capability for approving PBN operations and air operators in obtaining PBN OPS approvals. The purpose of the course is to provide experienced flight inspectors, flight operations regulators and air operators' personnel with a comprehensive understanding of the requirements for PBN operational approval.

At the end of the course, each participant will be individually assessed and the outcome of the assessment will be reported to each participant and his/her agency. The course is open to qualified and experienced flight inspectors, regulators and air operator personnel involved in PBN flight operations.

- Instructor – TBD
- Coordination/Sponsorship – TBD
- Material – ANB, TBD
- Facility – TBD
- Funding - TBD

3) PANS-OPS Initial Procedure Design Course– 4 Weeks – [dates]

Description: The course is based on ICAO PANS-OPS and aims to support States in developing their conventional flight procedures and basic procedure design capability by providing fundamental knowledge regarding procedure design. The instruction consists of lecturing, exercises, progress tests and examinations. 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 – TBD
- Material – TBD
- Facility – TBD
- Funding – TBD

4) PBN Procedure Design – 4 Weeks – [dates]

Description: The course aimed to support States/Administrations in developing their PBN procedure design capacity. The course is a follow-up to the ICAO PANS-OPS Initial Procedure Design Course. 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 qualified procedure designers who have successfully completed PANS-OPS Initial Course either at the MID FPP or other institutions.

- Instructor – TBD
- Material – TBD
- Facility – TBD
- Funding - TBD

MID FPP Project-oriented Implementation Support for 2020

1) OJT on ground validation and approval procedures with specific projects, [States, dates]

Description: The OJT sessions are targeted to assist regulators in validating and approving specific PBN procedures. The purpose of the session is to provide hands-on assistance for regulators in reviewing specific procedure design and validation packages which have been submitted prior to actual approvals and publications into the State AIPs. It is expected that once the validation and approval process is completed, the said procedures will be promptly published and implemented.

- Instructor - Qualified procedure designer from MID FPP
- Funding by States participating on the OJTs or Donors if available
- Facility - TBD
- Conditions – This OJT session is available for
 - Active States with annual contributions to the MID FPP; or
 - States that request this support under a service fee

2) Provision of assistance for the development of IFPs including Quality Assurance. [States, dates]

Description: The MID FPP would assist States for the development of instrument flight procedures with a focus on quality assurance, including the conduct of training courses or workshops for the personnel involved in the development process.

ICAO MIDFPP PRODOC, Appendix D

ICAO MID FPP PROVISIONAL WORK PLAN 2022

MID FPP Objectives for Year 1 (2022)

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

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, ASBU APTA Thread/Elements and the Global and regional requirements, the MID FPP training program is composed of workshops, training courses and support activities. The training activities centered on PBN Implementation Plan, regulatory approval procedures and PBN OPS Approval for operators have to be considered as essential to improve or start PBN implementation in States.

On the other hand, specific projects and implementation support activities will assist Participating States to consolidate or implement the instrument flight procedures through ground validation and approval process, or other consultation services. These activities will allow the Participating States to foster the implementing of PBN flight procedures in the Region.

MID FPP Training Activities

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 Plans and move forward with actual PBN implementations. 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 Plans 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/ Experts from DGCA France/ICAO
- Sponsorship: Industry/Stakeholders
- Material: FPP programs
- Facility: Virtual
- Funding:

2) PBN Ops Approval Course (5 days), [Date/Quarter 3]

Description: The course is based on ICAO Doc 9997 and conducts to support States in developing their operational approval capability for approving PBN operations and air operators in obtaining PBN OPS approvals. The purpose of the course is to provide experienced flight inspectors, flight operations regulators and air operators' personnel with a comprehensive understanding of the requirements for PBN operational approval. At the end of the course, each participant will be individually assessed and the outcome of the assessment will be reported to each participant and his/her agency. The course is open to participants involved in PBN flight operations.

- Instructor: MIDFPP manager, pool of experts
- Sponsorship: NIL

- Material: FPP programs
- Facility: Virtual
- Funding:

3) ICAO PANS-OPS Instrument Procedures Design: General Criteria and Conventional Procedures, (3 Weeks), [Dates/Quarter - To be coordinated with DGAC France]

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 the conventional flight procedures as basis for the design, the instruction consists of lecturing, exercises, progress tests and examinations.

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: DGCA France
- Sponsorship: TBD
- Material: DGCA France
- Facility: MIDFPP premises
- Funding:

4) ICAO PANSOPS Instrument Procedure Design Course: Arrival and Non precision Approach for PBN/Conventional procedures (3 Weeks), [Dates/Quarter - To be coordinated with DGAC France]

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.

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 first course of Instrument Procedure Design : “General Criteria...” or equivalent.

- Instructor: DGCA France
- Sponsorship TBD
- Material: DGCA France
- Facility: MIDFPP premises
- Funding: TBD

5) ICAO PANSOPS Instrument Procedure Design Course: Departure and Precision Approach for PBN/conventional procedures and Approach with vertical guidance (APV) procedures (18 Days), [Dates/Quarter - To be coordinated with DGAC France]

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 procedure.

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 first and second Instrument Procedure Design Course: “General Criteria “and “Arrival and Non Precision Approach for PBN/Conventional procedures” or equivalent.

- Instructor: DGCA France
- Sponsorship TBD
- Material: DGCA France
- Facility: MIDFPP premises
- Funding: TBD

6) CDO/CCO workshop, (2days), [Dates/Quarter 3]

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 course 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. By the end of the course, participants should be able to:

- ✓ Explain what are CDO and CCO,
 - ✓ List the benefits of CCO/CDO,
 - ✓ Describe the impact of airspace/procedures design on CCO/CDO,
 - ✓ Discuss and understand the advantages and disadvantages of open and closed STARs and,
 - ✓ Explain how ATC can facilitate CDO/CCO.
-
- Instructor: Pool of experts
 - Sponsorship: TBD
 - Material: TBD
 - Facility: Virtual/MID FPP premises
 - Funding: TBD

7) Provision of assistance for the development of IFPs including Quality Assurance. [States, dates]

Description: The MID FPP would assist States for the development of instrument flight procedures with a focus on quality assurance, including the conduct of training courses or workshops for the personnel involved in the development process.

8) Provision of consultancy services

Description: The consultancy services provided by MIDFPP is intended to support a State implementing a flight procedure/ establishing new route(s) or IFPs , restructuring its national airspace or part(s) of it or any level of complexity airspace changes with a third party supplier, without having the capability to develop the project material, specifications, deliverables and communication with the supplier. The MIDFPP can service as intermediate party to interface the State requirements (based on Regional and National requirements) and can offer following, but not limited to, services:

- ✓ Support for the concept of operations for an airspace design project;
 - ✓ Drafting IFPs tender specifications/Project Documents;
 - ✓ Guidance and expertise in validating the procedure fly-ability from FMS perspective (P/T, coding tables);
 - ✓ Guidance for States on developing a regulatory framework (documents and processes) for the provision of an IFPD service.
-
- Funding by: States participating or Donors

Timelines:

Subject		Y2022 Work Plan												Notes
		Q1			Q2			Q3			Q4			
Quarters	Month	1	2	3	4	5	6	7	8	9	10	11	12	
1	PBN Implementation Workshop (5 days)													Q3
2	PBN Ops Approval Course (5 days)													Q3
3	ICAO PANS-OPS Instrument Procedures Design: General Criteria and Conventional Procedures, (3 Weeks)													Subject to Coordination with DGCA France
4	ICAO PANSOPS Instrument Procedure Design Course: Arrival and Non precision Approach for PBN/Conventional procedures (3 Weeks)													Subject to Coordination with DGCA France
5	ICAO PANSOPS Instrument Procedure Design Course: Departure and Precision Approach for PBN/conventional procedures and Approach with vertical guidance (APV) procedures (18 Days)													Subject to Coordination with DGCA France
6	CDO/CCO workshop, (2days)													Q3
7	Provision of assistance for the development of IFPs including Quality Assurance													Available upon request
8	Provision of consultancy services													

MIDFPP Income Resources and Revenue Generation Action Plan

Area	Activity	Details	Action Items	Champion	Support
Services	1. Training	<ul style="list-style-type: none"> - PANSOPS (ab-initio Part I and II) - PANSOPS (Part III PBN module) - PANSOPS Advanced (AR, PBN to/from xLS, PinS) - PANSOPS Refresher course - PBN OPS Approval - PBN Procedures Quality Assurance and approval process - PBN Navigation Database (P/T, coding rule, reqs) - ARINC 424 Navigation System Database. - PBN Overview/Familiarization for ATC - IFP Charting - Inter-relationship PBN Design–Coding–Chart/AIP - 	1.1 Agree on firm commitment and training dates (Q3/Q4) with DGCA France 1.2 Building the internal programme capabilities and tools: 1.2.1 Establish the pool of experts ensure mixture of expertise to cover the topics (Designers, Instructors, ASPs, QA Experts, Data specialists) 1.2.2 Develop / secure training material and training aids 1.2.3 Secure the training facilities (class rooms, virtual) 1.3 Training topics to be mapped with Global and Regional requirements 1.4 Reach out for States to Identify their needs 1.5 Training fee schedule for States in accordance with ICAO policy ad MID FPP ProDoc	MIDFPP	<ul style="list-style-type: none"> - TCB, DGCA France - MID States - AFI and APAC FPPs
	2. Assistance	<ul style="list-style-type: none"> - Support in developing the national Regulations - Support in developing National PBN implementation Plan - Support in publication & Charting of IFPs - PBN Tabular Description of procedures - Airspace Concept design 	2.1 Building the internal capabilities (refer 1.2 above) 2.2 Review the current MID States Regulations 2.3 Reach out for States to Identify their needs 2.4 Training fee schedule for States in accordance with ICAO policy ad MID FPP ProDoc	MIDFPP	- ICAO MID, MID States
	3. Consultancy	<ul style="list-style-type: none"> - Drafting IFPs Specifications and project documents - Ground and Flight validation process - State specific request 	3.1 Building the internal capabilities (refer 1.2 above) 3.2 Reach out for States to Identify their needs 3.3 Training fee schedule for States in accordance with ICAO policy ad MID FPP ProDoc	MIDFPP with ICAO MID	AFI and APAC FPPs
	4. IFP Design Projects	<ul style="list-style-type: none"> - Constructing IFP and ATS Routes (Design process) - Obstacle assessment and evaluation - Periodic review of existing procedures 	4.1 Building the internal capabilities (refer 1.2 above) 4.2 Reach out for States to Identify their needs 4.3 Training fee schedule for States in accordance with ICAO policy ad MID FPP ProDoc	MIDFPP with ICAO MID	- AFI and APAC FPPs
Contributions	5. Resource Mobilization ICAO		5.1 ICAO MID to coordinate with HQ the available resources	ICAO MID	
	6. Direct Voluntary Contribution (cash, in-kind and expertise)		6.1 Invite States to provide financial and in-kind contributions 6.2 Invite States to share their expertise	TCB/PCI & MIDFPP	
	7. Annual Contribution by Active States		7.1 Promotion Campaign: 7.1.1 PPT in the related Regional meetings, for promoting the provided services 7.1.2 ICAO MID Webpage and Social media news letters 7.2 Define the annual Contribution amount for active States, based on the annual budget	ICAO MID	

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 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:

- a) MID FPP Active States: Directors General of Civil Aviation of the MID FPP Active States, or their designated representatives;
- b) ICAO: Regional Director, Middle East Office, Director, Technical Cooperation Bureau (TCB), and Chief of Programmes Coordination and Implementation Section (ANB/PCI) or their representatives; and
- c) MID FPP Manager, who will act also as the Secretary of the Steering Committee meetings.

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 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.



LIST OF PARTICIPANTS

State	Name	Title
BAHRAIN	Mr. Abdulla Rashed Al-Jawder	AIM Specialist
	Mr. Mohammed Ahmed Al Hallaq	Head Aeronautical Information Operations
EGYPT	Mr. Ehab Raslan Mohamed	G.M of Research and Development – NANSC
	Nav. Tayseer Mohamed Abdel Kareem	Head of Central Administration for Air Navigation Services – ECAA
FRANCE	Mr. Karim Bekkouche	Project Manager Middle East - South Africa – DGCA
	Mr Laurent Guitard	PBN Senior Expert – DSNA-DGAC
IRAN	Mr. Hamid Naghavi	Deputy Director of Aerodrome &Flight Procedure Design Office-Iran Airports and Air Navigation Co.
	Mr. Mohsen Saadatpour	Aerodrome &Flight Procedure Design Office Chief-Iran Airports and Air Navigation Co.
JORDAN	Mr. Ahmad Saleh Issa Al-hiyari	Director Air Navigation services
	Mr. Ahmad Odeh	OJT supervisor
	Mr. Khaled Ahmed Arabiyat	ATM Director
	Ms. Narman Izzat As'ad	Chief of ATM Training Division

State	Name	Title
	Mr. Tamer Ahmed Hassan Alnabelsi	Chief of ANS Airspace Design Division
KUWAIT	Mr. Mishal S Alqenaei	Head of Airport Control Tower and Ground Control Division
	Mr. Mohamed H Alanzy	Chief of AIS
LEBANON	Mr. Bassem Nasser	Chief of AIS
	Mr. Kamal Nassereddine	Chief of ANS
LIBYA	Mr. Tareq Faraj Kashkar	Chief of IFPD
OMAN	Mr. Nasser Salim Al-Mazroui	Act. Director Air Traffic Control
	Mr. Sulaiman Nasser Al-Salmi	Act Chief of Airspace
	Mr. Werner Kleynhans	PANS-OPS Inspector
	Mr. Yousuf Moosa Al Raisi	ATC Supervisor
QATAR	Ms. Pamela Erice	AIS Officer
	Ms. Sheila Higuez Brizo	Pan Ops Specialist
	Mr. Tilak Priyankara N Mudiyanseleg	Pan Ops Specialist

A-3

State	Name	Title
SAUDI ARABIA	Mr. Imed Ben Saad	IFP/AIM/OBST Expert
	Mr. Mohammed D Al-Juhani	PANSOPS, AIM
	Mr. Mohammed H Khalifah	Flight Procedure Inspector
SUDAN	Mr. Yasir Mohammed Ahmed Ali Abdalla	IFPD Section Head
SYRIA	Mr. Tarek AlJourf	Procedures Designer - Air Navigation Department
UAE	Mr. Ahmed Alshehhi	Senior Specialist – Airspace Management
	Mr. Ahmed Salem Al Hadhrami	Senior Specialist – Airspace Management
	Mr. Ahmed Al Mansoori	Senior Specialist – Airspace Management
	Mr. Muayyed Al Teneiji	Director Air Traffic Management
	Mr. Nasser AL Kharusi	Senior Specialist Airspace Management
	Mr. Saqr Obaid Al Marashda	Manager - Airspace Management, Air Navigation Services
YEMEN	Mr. Mahmood Mohamed Abdul Razak	Director General of AIRNAV Advisor
	Mr. Saeed Ahmed Bawazir	CAMA Chairman’s Advisor
	Mr. Younis Al-Khader	Director General of Air Navigation

Org.	Name	Title
ACAO	Eng. Hicham Bennani	Safety and Air Navigation Expert
IATA	Mr. Jehad Faqir	Assistant Director Safety and Flight Operation (Africa and Middle East)
	Ms. Zainab Khudhair	Manager Safety and Flight Operation (Africa and Middle East)
IFATCA	Mr. Raouf Nashed	IFATCA Representative Middle East
MID FPP	Mr. Sorin-Dan Onitiu	MID FPP Manager
ICAO AFI	Mr. Alexandre Damiba	African Flight Procedure Programme (AFPP) Manager - Dakar, Senegal
ICAO APAC	Mr. Liu Lujiang	Deputy Chief - APAC Regional SUB-Office, RSO-APAC
ICAO HQ	Ms. Dawn Flanagan	Implementation Support Officer, Safety – PCI
	Mr. Javier Sanchez	Field Operations Officer – TCB
	Mr. Raza Ali Gulam	Technical Officer, Communications, Navigation, Surveillance – PCI
ICAO MID	Mr. Mohamed Abubaker Farea	Regional Director (RD)
	Mr. Mohamed Smaoui	Deputy Regional Director (DRD)
	Mr. Radhouan Aissaoui	Regional Officer, Information Management (RO/IM)
	Mr. Ahmad Amireh	Regional Officer, Air Traffic Management and Search and Rescue (RO/ATM/SAR)

A-5

Org.	Name	Title
	Mr. Ahmad Kavehfiroz	Regional Officer, Air Traffic Management (RO/ATM)
	Ms. Dina El Karimy	Technical Assistant (ATM/SAR & ASF)
	Mr. Mohamed Hamed	Marketing Assistant
	Mr. Ayman Ramadan	ICT Assistant

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