



**MINUTES OF THE
MALDIVES AVIATION SAFETY TEAM (MAST-19)
MEETING**

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AGENDA ITEMS

Agenda Items for the MAST/18 Meeting

Provisional Agenda

1. Welcome & Introduction (Secretary)
2. Election of new Chairman of MAST (Secretary)
3. Adoption of the Minutes of the MAST/18th Meeting (Secretary)
4. CNS/ATM Issues – Presentation on PBN Overview (Mr. Ibrahim Khalid)
 - Regional Implementation Plan (Mr. Mohamed Solih)
 - State Implementation Plan (work that has been done so far) (Mr. Ahmed Nazim)
5. Occurrence Reports (Presentation by Thoha)
 - TCAS Incidents Reports
 - Bird Strikes Reports
 - Runway Incursions Reports
 - Closing of Reports (by Mr. Nazim)
6. Briefing on MCAR OPS 1 - (By Sameeha)
7. Any Other Business
 - Drug Prevention Programme/ Seminar (Abdulla to give an update)
 - Safety Task Force (Nazim to give an update)
 - VFR (suggest name change to Airspace-Including IFR & VFR) Working Group (Thoha to give an update)
 - Intensity of runway lights at KDM (Briefing by Iyas)
 - Frequent power failures at HAQ and KDM

CONCLUSION

APPENDIX – Membership

Time: 10.30hrs to 1200hrs
Date: 19th February 2009
Venue: Maldives Airports Company Ltd/ New ATC Centre



Agenda Item 1&2 - Welcome and Introduction by the Chairman – Mr. Mohamed Solih
Discussion on Provisional Agenda for 18th Meeting & finalization of MAST/17th Draft Meeting Report – Secretary Ms. Fathimath Ramiza

Ms Ramiza declared open then 19th MAST meeting and extended a warm welcome to all members Mr. David from Maldivian Air Taxi (MAT) was given the opportunity to introduce their newly appointed Flight operations manager Mr. Bruce to the members of MAST.
Since MAT is obliged to accommodate someone amongst them to be the chairman for this year, members recommended Mr. Ramani, (Safety Manager) to be appointed as the Chairman. Mr. Ramani accepted and agreed to serve as the Chairman for the determined period.

Agenda Item 3 - Adoption of the Minutes of the MAST/18th Meeting

Provisional agenda for the 19th MAST meeting was adopted and the MAST/18th Draft Meeting Report from the meeting was accepted as presented.

Agenda Item 4 CNS/ATM Issues

- **Presentation on PBN Overview (Mr. Ibrahim Khalid)**
- **Regional Implementation Plan (Mr. Mohamed Solih)**
- **State Implementation Plan (work that has been done so far)**

Mr. Ibrahim Khalid gave a presentation on PBN overview. The main points outlined were:
Background on how the PBN concept has come about
Concept of PBN
PBN Advantages
RNAV and RNP
Proposal for Male' FIR; En-route RNP10, Terminal Basic RNP1 with RNP APCH and APV

Members suggested that it was important to train the controllers and pilots on GPS approach.

Mr. Ibrahim Khalid urged all members to go through ICAO Doc 9163 to familiarize themselves on Performance based Navigation Manual.

Members requested Mr. Ibrahim Khalid to provide a briefing on both the State and Regional Implementation Plans after attending the PBN TASK Force Meeting in Japan.

Following are the State and Regional Implementation Plans as they stand from the 3rd PBN Task Force Meeting in Bangkok July 2008, for the benefit of the Members:



STATE PBN Implementation TASK LIST - PBN/TF/3 July 2008

No.	PERFORMANCE OBJECTIVE	ICAO Strategic Objective	Associated GPI	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	Status
1	Current Levels of State Operations and Initial Intent	Establish current Regional position		Invited to provide Brief to present to Working Group	Understand the starting point for implementation of PBN	Brief presented to Working Group	Next Meeting (1 – 3 Apr 08)	Mr Henrik Nielsen (CASA, Australia)		OPEN
2	List of Issues	Establish list of Local and General Issues which should be addressed during implementation of PBN		Establish source list of issues	Establish checklist of issues to be addressed	List of Issues	APANPIRG/19	Mr Henrik Nielsen (CASA, Australia)		CLOSED Moved to Item No 7, to include Milestone Items
3	PBN Training Material	Provide Training Framework and individual training packages for pilots, controllers, regulators etc		Training framework and material	Provide training material to Regional States plus States of other Regions	Training packages	Framework by next Meeting (1 – 3 Apr 08)	Mr Henrik Nielsen (CASA, Australia)		CLOSED Request RNP AR Training Material from QANTAS (Mr Alex Passerini via Email: apasserini@qantas.com.au)
4	On-The-Job Training specifically with regard to PBN Procedure Design	Establish ability and intent of States to offer participation		Provide education for States, specifically relating to PBN Procedure Design	Greater spread of knowledge with regards to PBN Procedure Design	Training	Next Meeting (1 – 3 Apr 08)	Mr Henrik Nielsen (CASA, Australia)		CLOSED Function to be achieved through proposed Flight Procedures Office (FPO)



CIVIL AVIATION DEPARTMENT

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No.	PERFORMANCE OBJECTIVE	ICAO Strategic Objective	Associated GPI	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	Status
5	Provision of Model Operational and Air Worthiness Approval Documentation	Model Approval Documentation		Assist States with approval documentation	Greater understanding of approval process	Operational and Air Worthiness Approval Documentation	Next Meeting (1 – 3 Apr 08)	Mr Honghai Yang (China)		CLOSED Implementation document made available to member States as Attachment to Meeting Report No 2.
5	Provision of Model Operational and Air Worthiness Approval Documentation	Model Approval Documentation		Assist States with approval documentation	Greater understanding of approval process	Operational and Air Worthiness Approval Documentation	Next Meeting (1 – 3 Apr 08)	Mr Honghai Yang (China)		CLOSED Implementation document made available to member States as Attachment to Meeting Report No 2.
6	Updates to List of Issues and Milestones Issues for 'Road map' towards PBN	List of Issues and Milestone		Assist States developing	Understand 'Road' towards PBN	List of Issues		Mr Henrik Nielsen (CASA, Australia)		OPEN
7	New Zealand to provide consolidated PBN NAV Specifications matrix	PBN Matrix Development			Assisting Certification efforts	PBN Matrix	16 Jun 08	Mr Ron Doggett (New Zealand CAA)		OPEN
8	Provide proposed format and agenda items for proposed PBN Seminar to be held in Sukuoka, Japan during November 2008	Future PBN Seminar		Provide feedback to	Provide greater training opportunity	Provide feedback	Next Meeting (16 – 18 Jul 08)	Mr Henrik Nielsen (CASA, Australia)		OPEN
9	Provide feedback to State Letter on FPO concept	Implementing a Flight Procedure Office in the Asia Pacific Region			Provide assistance with procedure design	Reply to State Letter	Date specified in State Letter (nominally 16 Jun 08)	Mr David van Ness (ICAO, Montreal)		OPEN



No.	PERFORMANCE OBJECTIVE	ICAO Strategic Objective	Associated GPI	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	Status
1-1	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Introduction Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Noppadol Pringvanich (AEROTHAI)	– Mr. Doug Michael (IATA)	Closed
1-2	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft PBN Operational requirements & Implementation Strategy Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Noppadol Pringvanich (AEROTHAI)	– Mr. Doug Michael (IATA), – Mr. Tan Yean Guan (CAA Singapore), – Mr. Raymond Kwok-chu LI (CAD Hong Kong), – Mr. WXS Croos (Airport&Aviation on Sri Lanka), – Capt Korn Mansumitchai (IFALPA), – Mr. Liu Song (CAAC)	Closed
1-3	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Current Status & Forecast: APAC traffic forecast Section for Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Doug Michael (IATA)	– Mr. Noppadol Pringvanich (AEROTHAI)	Closed



REGIONAL PLAN Subgroup to PBN/TF/3 – JULY 2008

No.	PERFORMANCE OBJECTIVE	ICAO Strategic Objective	Associated GPI	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	Status
1-4	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Current Status & Forecast: Aircraft fleet readiness status Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Doug Michael (IATA)	– Mr. Noppadol Pringvanich (AEROTHAI)	Closed
1-5	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Current Status & Forecast: CNS Infrastructure Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Noppadol Pringvanich (AEROTHAI)	– All RPSG members	Closed
1-6	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Safety Assessments and Monitors Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Hajime Yoshimura (JCAB)	– Mr. Tan Yean Guan (CAA Singapore), – Capt. Alex Passerini (Qantas- Australia)	Closed
1-7	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Appendix A - Reference documentation for developing operational and airworthiness approvals Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Capt. Alex Passerini (Qantas- Australia)	– Mr. Doug Michael (IATA), – Mr. Noppadol Pringvanich (AEROTHAI)	Closed
1-8	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Appendix B – Practical Example of tangible benefits Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Capt. Alex Passerini (Qantas- Australia)	– Mr. Edsall Williams (Airservices- Australia), – Mr. Noppadol Pringvanich (AEROTHAI)	Open



No.	PERFORMANCE OBJECTIVE	ICAO Strategic Objective	Associated GPI	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	Status
1-9	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Draft Appendix C – Procedure to modify the regional plan Section for PBN Regional Plan	To facilitate the development of the Regional Plan	Draft document	17 March 2008	Mr. Li Peng (ICAO APAC)	– Mr. Noppadol Pringvanich (AEROTHAI)	Closed
1-10	PBN Coordination & Implementation	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Identify the short falls preventing the implementation of PBN	To identify preventive measures and to support PBN implementation	Working Papers	1 April 2008	All RPSG members		Open
1-11	PBN Coordination & Implementation	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Identify training requirements	To assist States in their planning and implementations	Working Papers	1 April 2008	All RPSG members		Open
1-12	PBN Coordination & Implementation	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Assess possibilities of future PBN seminar	To assist States in their planning and implementations	Working Papers, Information Papers	1 April 2008	All RPSG members		Closed
1-13	PBN Coordination & Implementation	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Identify ways and means to share resources	To assist States in their planning and implementations	Working Papers	1 April 2008	All RPSG members		Ongoing
1-14	PBN Certification Process	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Develop standard template for application & approval package	To harmonize PBN approval process within the region	Working Papers, Draft template	1 April 2008	Capt. Alex Passerini (Qantas- Australia)	– Mr. Doug Michael (IATA), – Capt. Aric Oh (IATA)	Ongoing



No.	PERFORMANCE OBJECTIVE	ICAO Strategic Objective	Associated GPI	Tasks/Strategy	Benefits	Deliverables	Target Date	Leader	Supporting Members	Status
1-15	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	ICAO, via a State letter, to request States to update information on CNS infrastructure in the FASID table	To obtain information necessary for regional planning	State letters, Updated FASID table	1 April 2008	ICAO Bangkok Office		Closed
2-1	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Each State, which has not submit the updated FASID table to ICAO, to update the content of the FASID table and submit the updated table to ICAO Regional Office.	To obtain information necessary for regional planning	Updated FASID table	July 2008	All RPSG members		Ongoing
2-2	PBN Coordination & Implementation	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	To draft a program for the proposed PBN seminar and circulate the drafted program to RPSG members for review and comments.	To facilitate PBN training	Draft program for future PBN seminar	July 2008	Mr. Hajime Yoshimura (JCAB) and Mr. Noppadol Pringvanich (AEROTHAI)	All RPSG members	Closed
2-3	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	To review the current agreed draft Regional Plan and to study other draft materials.	To facilitate the development of the Regional Plan	-	July 2008	All RPSG members		Closed



2-4	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	ICAO Regional Office to coordinate with ATM/AIS/SAR Subgroup of APANPIRG to ensure consistency of planning and usages of terminology.	To facilitate the development of the Regional Plan	Coordination with ATM/AIS/SAR	Next APANPIRG meeting	ICAO Regional Office		Closed
2-5	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Dave VanNess to prepare a presentation on ICAO definitions of Non-Precision Approach, Approach with Vertical Guidance, and Precision Approach	Clarification on the terminology	Presentation	July 2008	Dav VanNess		Closed
3-1	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	IATA to submit the result from the fleet readiness survey to be integrated as part of the Regional Plan	To facilitate the development of the Regional Plan	Reviewed Regional Plan	July 2008	Mr. Doug Michael (IATA)	- Mr. Noppadol Pringvanich (AEROTHAI)	Closed
3-2	PBN Planning	A: Safety D: Efficiency C: Environment	GPI-5, GPI- 7, GPI-10, GPI-11, GPI-12, GPI-20, GPI-21	Review the current agreed draft Regional Plan and to provide appropriate comments.	To facilitate the development of the Regional Plan	Survey Result	July 2008	All RPSG members		Closed



Agenda Item 5 – Occurrence Reports

Mr Thoha gave a presentation on the incident reports on Bird Strikes, TCAS RA, TCAS TA, AIRPROX with respective statistical data for 2008 and 2009 (January) .

Male' International Airport – 2008

- Birdstrikes – 07
- TCAS RA – 02
- TCAS TA – 01
- AIRPROX – 01
- Birdstrikes – Nil
- TCAS RA – 02 (Under investigation)
 - reported by Sri Lankan Airlines holding over MLE VOR
 - reported by TMA ATR43 at 4000ft while 8QTMG at 2500ft both were visually cleared by Tower Controller.
- TCAS TA – Nil
- AIRPROX – Nil

Furthermore he talked about runway incursions at MIA as of January 2009.

Issue relating to the increasing number of birds strikes incidents was stressed by Ms Shiznee with graphs and images, demonstrating damages possessed to the aircraft from such accidents.

As concluded in the Apanpirg/18 Meeting, The State shall establish by July 2008 a national bird control committee to

- Study, analyze and adopt measures to prevent bird hazards in its aerodromes and their vicinity, and
- Monitor the implementation of a bird control programme by the aerodrome operator, to evaluate its effectiveness and suggest measures for improvement

Subject to this CAD has already established a Bird Control Committee in 2008. So far one meeting was conducted and representatives from MNDF, MACL, Regional Airports and Environment Ministry participated in the meeting.

MACL and Regional Airports were assigned the task to research on the subject matter, undertake a prospective study referring into Bird Control Management Programmes of other countries and produce a programme which fulfills our requirements. The outcomes of the study should be presented in the next meeting.

Closing of Reports.

With regard to incident investigation and closing of reports, Members stated that when more than one party is involved for example an AD operator and ATC, it is better that CAD initiate and conduct the investigation. CAD responded that due to shortage of staff full investigation cannot be carried out by CAD alone.

With further discussion it was decided by the members that when ever there is an issue to be investigated, first the concerned operator should gather data and initiate the in-house investigation. During the in-house investigation CAD is urged to participate.

MACL stated that during their in-house investigation, they could invite personnel from other operators to the investigation team. Finally when the investigation is completed to finalize, feed back could be sought from CAD.

As part of improving coordination data collection efforts, it was decided that all Safety managers meet outside MAST to discuss incidents/accidents. Hence a new Working Group was created a name to be announced later. This WG would look at Incidents/Occurrences that were reported to the CAD and act as a “watch dog” to speed up the process of reporting as well as to assist the stakeholders to quickly bring about FINAL REPORTS to various Incidents/Occurrence. The coordinator for this new Work Group was named as Mr. Nazim



Agenda Item 6 - Briefing on MCAR OPS 1 - (By Sameeha)

Key objective of Ms Sameeha presentation was to remind all operators to have achieved full compliance by 31st December 2009 and reminded that operators that do not achieve full compliance cannot operate legally after this date. Sameeha listed the actions required by the operators in the transition period and explained CAD's role in the process. She identified the major changes in the Ops manual and furthermore touched on the Ops 1 compliance statement and training requirements.

As CAD has to process 3 application within 6 months, operators were reminded that they submit the application by 30th June 2009. To provide further assistance and guidance, officials from CAD would be visiting the operators individually. Hence operators need to identify problem areas and make ready their questions and uncertainties for CAD's assistance

Agenda Item 7 - Any other business

Drug Prevention Programme/ Seminar (Abdulla to give an update)

- Nazim gave an update from the Operator side highlighting that they had some difficulties getting the tests done at NNCB. They have, however, come to an understanding with NNCB that will allow the required tests to be carried out.
- Nazim will not be able to continue as the Operators FP as his new job did not allow the additional work load.
- IASL, MAT and TMA have already started the required testing and their Drug Policies are nearly complete.
- MACL has neither completed the Drug Policy nor started the testing.
- Solih has been assigned as the MACL FP for Drug Testing. He will also take over Nazim's responsibilities as the Operators FP.
- Abdulla from CAD reminded the Operators that they have the option of carrying out the tests at the Police laboratory and stressed that the Drug Policies should be company-wide rather than being specific to the drug testing component.

Safety Task Force (Nazim to give an update)

VFR (suggest name change to Airspace-Including IFR & VFR) Working Group (Thoha to give an update)

The Runway Safety Task Force was formally dissolved and the work was to be carried on by the VFR Task Force Working Group

Frequent power failures at HAQ and KDM

The issue was raised by IAS following reports received by pilots. Mr. Ahmed Husain (Dhona) from RA in response stated that there had been some cable problems reported by STELCO in Hanimadhoo Airport and he would verify and investigate the issue as soon as possible.

CONCLUSION

As no further issues were raised, after thanking all members Ms Ramiza adjourned the meeting at 12.15 pm

Details of the next meeting will be notified duly.

APPENDIX -

Members Present:-

Ms. Fathimath Ramiza / Director AN & A

Civil Aviation Department

Ms. Aminath Shiznee/ Asst Aerodrome Inspector AN & A

Civil Aviation Department



Ms. Shifana Ali/ Tech Officer AN & A	Civil Aviation Department
Ms. Sameeha A. Hakeem/ Senior Ops Officer	Civil Aviation Department
Ms. Mariyam Shifzan/Asst AW Engineer	Civil Aviation Department
Mr. Abdullah Mohamed/AW Engineer	Civil Aviation Department
Captain V.V. Ramani / Safety Officer	Maldivian Air Taxi
Bruce Flynn/Ops Manager	Maldivian Air Taxi
Rob Mc Gechan/Chief Pilot	Maldivian Air Taxi
Mr. Ahmed Nazim /Safety Manager	Trans Maldivian Airways
Mr. Fahud / C.P	Trans Maldivian Airways
Mr. Mohamed Muja/FOM	Trans Maldivian Airways
Captain Fathuhulla Jameel	Island Aviation Services Ltd
Mr. Ibrahim Iyas/ Manager, Safety & Quality	Island Aviation Services Ltd
Mr. Mohamed Solih/Safety Director	Maldives Airports Company Ltd
Mr. Ibrahim Thoha / SATCO	Maldives Airports Company Ltd
Mr. Abdulla Zakariyya / SATCO	Maldives Airports Company Ltd
Mr. Ibrahim Khalid / Flight Procedural Officer	Maldives Airports Company Ltd
Mr. Ibrahim Hameed / SATCO	Maldives Airports Company Ltd
Mr. Ahmed Hussain / Asst Manager	Regional Airports HQ