



SAM/IG/2
WP/05
18/09/08

**International Civil Aviation Organization
South American Regional Office**

**SECOND WORKSHOP/MEETING OF THE SAM IMPLEMENTATION GROUP (SAM/IG/2)
REGIONAL PROJECT RLA/06/901**

Lima, Peru, 3 to 7 November 2008

Agenda Item 2: Implementation of performance-based navigation (PBN) in the SAM Region

PBN EN-ROUTE ACTION PLAN

(Presented by the Secretariat)

SUMMARY	
This working paper proposes a revision by the meeting on the progress reached in the en-route PBN Action Plan.	
References:	
<ul style="list-style-type: none">• First Workshop/Meeting of the SAM Implementation Group (SAM/IG/1), Lima, Peru;• RLA/06/901 Project; and• PBN En route Action Plan (RNAV5).	
ICAO Strategic Objectives:	
A:	<i>Safety</i>
C:	<i>Environmental Protection</i>
D:	<i>Efficiency</i>

1 Background

1.1 GREPECAS/14 (San Jose, Costa Rica, 16 – 20 April 2007), established an implementation strategy for performance-based navigation (PBN) in the CAR and SAM Regions at short-term (until 2010) and mid-term (2011-2015) which was included in Document CAR/SAM PBN Roadmap. In view of the above, the GREPECAS/14 meeting approved Conclusion 14/46, “CAR/SAM Roadmap for PBN”, encouraging States/Territories/International Organizations to adopt and apply the CAR/SAM PBN Roadmap, as approved by GREPECAS.

1.2 In this sense, SAM/IG/1 meeting agreed to Conclusion SAM/IG/1 - *CAR/SAM PBN Roadmap*, which indicates that ICAO SAM States, in implementing RNAV/RNP, take the pertinent actions to follow guidelines contained in the CAR/SAM PBN Roadmap.

2 Discussion

2.1 The meeting was of the opinion that States must prepare their own PBN implementation plans, which include regional planning as shown in the roadmap. These national implementation plans shall have, among other issues, the action plans that include those activities related, dates and responsible person of each activity.

2.2 In this regard, the SAM/IG/1 revised a regional action plan corresponding to RNAV 5 implementation for en-route operations, introduced the pertinent changes, established responsibilities, starting and ending dates for various activities, and adopted it as guideline to be followed by States.

2.3 Also, under Objective No. 1, Item 1.1, Project RLA/06/901 establishes the tasks that are to be carried out in the PBN field. Taking into account that the development of the pertinent deliverables should be discussed in this SAM/IG meeting, an ATM expert has been hired to carry out Item 1.1.1 tasks. The detailed result of this work is described in WP/04, Agenda Item 2 - Implementation of performance-based navigation (PBN) in the SAM Region.

2.4 In view that the PBN en route action plan (RNAV-5) considers tasks in charge of previously defined responsables, a periodical review of it becomes necessary so as to follow up on tasks complied with by each of the designated responsible by the Implementation Group. To this end, **Appendix A** to this working paper shows the tasks that should be complied with by the time of this second implementation meeting. The complete action plan is shown in WP/04, Attachment 1 to Appendix B.

3 Suggested action

3.1 The meeting is invited to:

- a) Take note of the information provided herein; and
- b) Examine the progress achieved in the PBN en route (RNAV-5) action plan that is shown in Appendix A to this working paper.

* * * * *

APPENDIX A**EN-ROUTE PBN ACTION PLAN (RNAV-5) IN SHORT TERM
(GPI 1, 4, 5, 7, 8, 10, 11, 12, 16, 21, 23)**

1. Airspace concept	Start	End	Responsible	Remarks
1.1 Establish and prioritize strategic objectives (safety, capacity, environment, etc.).	June/2008	SAM/IG/2	SAM/PBN/IG (Project RLA/06/901)	Completed
1.2 Collect traffic data to understand the traffic flow in a particular airspace.	June/2008	SAM//IG/2	SAM/PBN/IG (Project RLA/06/901)	Completed
4. Establish collaboration decision making (CDM) process)	Start	End	Responsible	Remarks
4.3 Establish a documentation format in CAR/SAM RNAV/RNP Web site.	SAM/IG/1	SAM/IG/2	SAM Regional Office	Completed
5. ATC Automated Systems	Start	End	Responsible	Remarks
5.1 Evaluate the PBN implementation impact in ATC Automated Systems, taking under consideration Amendment 1 to the PANS/ATM (FPLSG).	June/2008	SAM/IG/2	SAM/PBN/IG (Project RLA/06/901)	During SAM/IG/2
6. Aircraft and operators approval	Start	End	Responsible	Remarks
6.1 Analyse aircraft and operators approval requirements (pilots, dispatchers and maintenance personnel), as established in PBN manual, and prepare the necessary documentation.	June/2008	SAM/IG/2	Regional Project RLA/99/901 - Safety Oversight Cooperation System	Completed
6.4 Establish and keep up to date a registry of approved aircraft and operators.	SAM/IG/3	Permanent	CARSAMMA States	

6. Aircraft and operators approval	Start	End	Responsible	Remarks
6.5 Verify the operation within the continuous monitoring plan (aircraft and procedures)	Nov/2010	Permanent	States	

7. Standards and Procedures	Start	End	Responsible	Remarks
7.1 Evaluate the regulations for the use of GNSS and, if the case, proceed with its publication.	June/2008	SAM/IG/2	SAM/PBN/IG (Project RLA/06/901)	
7.3 Elaborate an AIC model for the notification of PBN implementation planning.	June/2008	SAM/IG/2	SAM/PBN/IG (Project RLA/06/901)	Completed
7.11 Review practices and procedures to improve fuel consumption management and environmental care.	SAM/IG/1	Permanent	SAM/PBN/IG (Project RLA/06/901)	

- END -