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

**FIRST WORKSHOP/MEETING OF THE SAM IMPLEMENTATION GROUP (SAM IG/1)
REGIONAL PROJECT RLA/06/901**

Lima, Peru, 21 to 25 April 2008

Agenda Item 1: Optimization of the ATS routes structure in Terminal and en-route airspace and implementation of performance based navigation (PBN) in the SAM Region.

**PROPOSED TERMS OF REFERENCE AND WORK PROGRAMME FOR SAM REGION PBN
IMPLEMENTATION WORKING GROUP (SAM/PBN/IWG)**

(Presented by the PBN Group Rapporteur)

Summary

The objective of this working paper is to present a proposal for the SAM Region PBN Implementation Working Group Terms of Reference and Work Programme, which shall be focused in the analysis of the material produced by experts hired by Project RLA/06/901, mainly to draft the guidelines for use of SAM States and International Organizations.

References:

- Project RLA/06/901
- AP/ATM Meeting Reports, Project RLA/98/003

1 Background

1.1 The complexity of the tasks to be developed by the SAM implementation Group, will lead to the need for the creation of a specific group, with the main objective to evaluate the guidance material developed by experts hired by Project RLA/06/901.

1.2 The SAM Region PBN Implementation Working Group (SAM/PBN/IWG) shall establish a group for the drafting of documentation, in order to prepare the documents for its meetings, in addition to the material drafted by experts hired by Project RLA/06/901, as well as to prepare, with the support of the Secretariat, the report of the matters dealt with related to the PBN issue in each SAM/IG meeting.

2 **SAM PBN implementation Group Terms of Reference and Work Programme**

2.1 **Appendix A** to this working paper presents a proposal for the SAM Region PBN Implementation Working Group (SAM/PBN/IWG) Terms of Reference and Work Programme.

3 **Suggested action**

3.1 The meeting is invited to review the proposed Terms of Reference and Work Programme shown in Appendix A to this working paper, recommending by the changes deemed pertinent.

APPENDIX A

PROPOSED TERMS OF REFERENCE AND WORK PROGRAMME FOR THE SAM REGION PBN IMPLEMENTATION WORKING GROUP (SAM/PBN/IWG)

1. TERMS OF REFERENCE

Develop guidance material for RNAV/RNP implementation processes in the en-route, terminal, and approach flight phases, taking into account the performance-based navigation (PBN) concept, according to the ICAO Strategic Objectives and Global Plan Initiatives (GPI) on this matter (GPI 5, 7, 10, 11, 12, 20 and 21).

2. WORK PROGRAMME

- a) Develop a Model PBN Implementation Action Plan for En-Route Operations, taking into account the CAR/SAM Roadmap, with a view to optimising the ATS route structure.
Note: Implementation by SAM Implementation Group.
- b) Develop a Model Action Plan for PBN Implementation in the TMA.
Note: Implementation by SAM States.
- c) Develop a Model Action Plan for PBN Implementation for approach operations.
Note: Implementation by SAM States.
- d) Develop guidelines for PBN implementation for TMA and approach operations including: cost-benefit analysis safety assessment, air navigation procedures construction, ATC simulations (real time and accelerated time), ATC automated systems, air traffic controllers training, approval of aircraft and operators, design and management for Terminal Control Area, Regulation model on the GNSS application (Primary Means, Supplementary, operational restrictions, etc).
- e) Establish training requirements, including airspace planning, air navigation procedures construction, operators and airworthiness approval, safety assessment and airspace monitoring.
- f) Verify the status of implementation of WGS-84.
- g) Follow-up of PBN implementation for en-route, TMA, and approach operations to ensure its intra- and inter-regional harmonisation.
- h) In coordination with the GREPECAS ATM/CNS Subgroup ATM Committee PBN Task Force, consider the necessary activities to ensure harmonisation of PBN implementation in the CAR and SAM Regions.

3. COMPOSITION

TBD

4. RAPPORTEUR

TBD