



International Civil Aviation Organization
Western and Central African Office

**Second Joint Meeting of the APIRG Performance Based Navigation
and Global Navigation Satellite System Implementation Task Forces
(Joint PBN & GNSS/I TFs) (Dakar, Senegal, 2 - 4 March 2010)**

**Agenda Item 7: Review of the Terms of Reference of the proposed PBN/GNSS
Task Force**

TERMS OF REFERENCE OF THE PROPOSED PBN/GNSS TASK FORCE

(Presented by the Secretariat)

SUMMARY
This paper proposes modified Terms of Reference of the PBN/GNSS/I TF, which take into consideration latest PBN implementation developments.
Action by the meeting is at paragraph 3.
REFERENCES
This Working Paper is related to Strategic Objectives: D

1. INTRODUCTION

1.1 At its tenth meeting in Dakar 12-15 May 2009, the ATS/AIS/SAR Sub-Group formulated Conclusion 10/26: *Renaming of the APIRG PBN Task Force*, proposing the merger of the PBN Task Force and the GNSS Implementation Task Force to establish the PBN/GNSS/I TF.

1.2 The First Joint Meeting of the APIRG Performance Based Navigation and Global Navigation Satellite System Implementation Task Forces (Joint PBN & GNSS/I TFs/1) held in Nairobi, 8-10 September 2009, reviewed the terms of reference proposed by the ATS/AIS/SAR SG/10 for the APIRG PBN/GNSS/I Task Force, and accordingly formulated the following Draft Decision:

**DRAFT DECISION 1/1: DISSOLUTION OF THE GNSS IMPLEMENTATION
AND PBN TASK FORCES AND ESTABLISHMENT OF
THE PBN/GNSS TASK FORCE.**

That the GNSS Implementation and PBN Task Forces are dissolved and the PBN/GNSS Task Force is established with the terms of reference in Appendix 7X to the report on agenda item 7 (which is at **Appendix A** to this Working Paper).

2. DISCUSSION

2.1 Based on recent development and deliberations of the Second Joint Meeting of the PBN and GNSS/I Task Forces, the meeting may wish to review the TOR of the proposed PBN/GNSS/I/TF as at Appendix 8A to this working paper, and accordingly formulate the following Draft Decision:

Draft Decision 2/x: Dissolution of the GNSS Implementation and PBN Task Forces and establishment of the PBN/GNSS Task Force.

That the GNSS Implementation and PBN Task Forces are dissolved and the PBN/GNSS Task Force is established with the terms of reference in Appendix XX. to the report on agenda item 7.

(This Draft Decision supersedes Conclusion 10/15 of the ATS/AIS/SAR SG/10 and Draft Decision 1/1 of the First Joint PBN and GNSS TFs Meeting).

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information in this working paper;
- b) review, adapt as necessary, and approve the proposed terms of reference in Appendix A to this working paper, for presentation to APIRG/17; and
- c) agree on Draft Decision under paragraph 2.1 of this working paper.

**PROPOSED TERMS OF REFERENCE FOR COMBINED APIRG
PBN/GNSS TASK FORCE**

1. Terms of Reference

- a) Carry out specific studies in support of the implementation of Performance Based Navigation (PBN) in the AFI Region, according to the ICAO Strategic Objectives and Global Plan Initiative (GPI) 5 and related GPIs (GPIs 7, 10, 11, 12, 20, 21).
- b) Identify other issues/action items arising from the work of ICAO or for consideration by ICAO in order to facilitate regional and global harmonization of existing applications as well as future implementation of Performance Based Navigation operations.
- c) Determine and recommend, on the basis of the studies, the PBN strategy and Implementation Plan for the AFI Region, based on the ICAO PBN Implementation goals as reflected in assembly resolution 36-23.
- d) Assist States that may require support in the implementation of PBN.

2. Work Programme

Activity/Task	Assigned person/organ	Target date
<ol style="list-style-type: none"> a) Study and assess the Regional RNAV and RNP requirements. b) Initially focus assistance to States that may require support on development of the State PBN implementation plans. c) Identify priority routes and terminal areas where RNAV and RNP should be implemented. d) Identify priority runways for Approach Procedures with Vertical Guidance (APV) to be implemented based on the ICAO RNP APCH navigation specification (APV). e) Develop an amendment proposal to the AFI Regional Supplementary Procedures concerning the implementation of PBN in the Region. f) Identify guidance material and training needs. g) Follow up on the developments in ICAO affecting the Global 		

<p>Plan and PBN in particular, in order to update the Regional plans accordingly.</p> <p>h) Coordinate with other ICAO Regions as necessary to address implementation interface issues.</p> <p>i) Undertake other functions relevant to implementation of PBN as assigned by APIRG.</p> <p>j) Develop and update (as necessary) the Regional PBN Implementation Strategy and Plan.</p> <p>k) Develop the PBN performance objectives and related action plans for en-route, terminal and approach phases of flight; and;</p> <p>l) Report to APIRG through its ATM and CNS Sub-groups.</p>		
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3. The Task Force shall in its work be guided by the following principles:

- a) Implementation of PBN shall follow the ICAO PBN goals and milestones.
- b) Avoid undue equipage of multiple on board equipment and/or ground-based systems.
- c) Avoid the need for multiple airworthiness and operational approvals for intra- and interregional operations.
- d) Continue application of conventional air navigation procedures during the transition period, to guarantee the operations by users that are not RNAV- and/or RNP-equipped
- e) The first regional PBN Implementation Strategy and Plan should address the short term (2008-2012), medium term (2013-2016) and take into account long term global planning issues.
- f) Cognizance that the primary objective of ICAO is that of ensuring the safe and efficient performance of the global Air Navigation System, ensure that pre- and post-implementation safety assessments will be conducted to ensure the application and maintenance of the established target levels of safety g) Take into account the introduction of new technologies, encourage implementation and development in GNSS.
- h) Coordinated implementation with other relevant Regional Plans.
- i) Apply ICAO guidance material and information as may be applicable to the Region to facilitate the implementation of PBN.

4. Composition of the Task Force:

States

AFI States and States having territories in the AFI Region

(meeting to decide on a concise list, preferably not exceeding 15)

Note:

States are requested to included in their delegations: PBN experts, GNSS (CNS) experts, as well as officials experts involved in the PBN approval process of aircraft operators.

Organizations

ASECNA, IATA, IFALPA, IFATCA and ESA. Additional representative from International/Regional Organizations may be invited when required.
