



International
Civil Aviation
Organization

Organisation
de l'aviation civile
internationale

Organización
de Aviación Civil
Internacional

Международная
организация
гражданской
авиации

منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref: ES AN 4/74 - 0483

18 August 2010

Subject: First Meeting of the APIRG Performance Based Navigation and Global Navigation Satellite System Implementation Task Forces (PBN/GNSS TF/1) (Nairobi, 12 - 14 October 2010)

Action required: Reply by 17 September 2010

Sir/Madam,

I have the honour to refer to the outcome of the APIRG/17 meeting in Ouagadougou from 2 to 6 August 2010, in particular Decision 17/49: Dissolution of the GNSS Implementation and PBN Task Forces and establishment of the PBN/GNSS Task Force, and to invite your Administration to the above mentioned PBN/GNSS TF/1 meeting which will be convened at the Fairview Hotel, Nairobi, Kenya from 12 to 14 October 2010.

Let me take this opportunity to highlight that in the context of discussions of various subjects during the APIRG/17 meeting, the importance of assigning appropriate expertise to the specialised APIRG subsidiary bodies such as the PBN/GNSS Task Force, was emphasized. In this regard, you are invited to review the agenda of this meeting in conjunction with the report of the Joint PBN and GNSS Task Forces meeting, which was held in Nairobi from 8 to 10 September 2009, as well as report of APIRG/17 meeting, regarding PBN and GNSS issues, in order to inform your decision on the delegation. In any case, kindly note that the meeting will require both air traffic management (ATM) and GNSS expertise.

The provisional agenda with explanatory notes is provided at **Attachment A**. Your comments on the proposed agenda are welcome. The bulletin providing information for participants and hotel list is in **Attachment B**.

For ease of reference, the terms of reference (TOR) of the PBN/GNSS Task Force is provided in **Attachment C**.

...../2.....

Eastern and Southern African Office
United Nations Office at Nairobi
P.O. Box 46294,
00100 Nairobi, Kenya

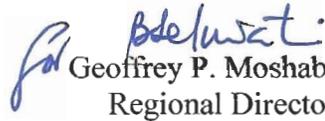
Tel. No: 254 (20) 7622395 (ICAORD)
254 (20) 7622396 (ICAODEPRD)
254 (20) 7622391 (TECH. COOP)
254 (20) 7622399 (ADMIN)
Fax No: 254 (20) 7621092
E-Mail: icao@icao.unon.org

Please note that working material (working/information papers, etc.) will not be provided in hard copy (paper) form. Your Administration is therefore requested to **ensure that participants are accordingly facilitated with computer equipment** (such as laptops) to enable their effective participation.

This letter, the bulletin providing information for participants including hotel list, as well as working papers for the meeting will, as they become available, be posted on the ICAO ESAF Regional Office website at: www.icao.int/esaf.

In order to facilitate necessary planning and preparations for the meetings, I would appreciate if you could, at your earliest convenience, preferably not later than **17 September 2010**, confirm the participation of your Administration to the meeting by forwarding your response to the ESAF Regional Office at following e-mail address (icao@icao.unon.org) with a copy to (seboceso.machobane@icao.unon.org) or fax number +254 20 762 1092, giving the name(s) and official/job titles of your participant(s).

Accept, Sir/Madam, the assurances of my highest consideration.


Geoffrey P. Moshabesha
Regional Director

Attachments: A: Proposed Agenda and Explanatory Notes for the PBN/GNSS TF
B: Information Bulletin
C: Terms of Reference of the PBN/GNSS TF

**Draft Agenda with Explanatory Notes
(PBN/GNSS TF/1)
(Nairobi, 12-14 October 2010)**

STRATEGIC OBJECTIVES	AGENDA ITEM NO.	SUBJECT	EXPLANATORY NOTES
D	1	Adoption of the Agenda and Election of Chairperson	The meeting will review and adopt the agenda for the Second Joint PBN and GNSS Task Forces meeting, and elect chairperson for the meeting.
A & D	2	Review and follow up of Recommendations, Conclusions and Decisions applicable to the Task Forces.	The meeting will review and follow up on the Recommendations of SP AFI RAN 2008, as well as Conclusions and Decisions of APIRG applicable to the functions of the PBN/GNSS Task Force.
A & D	4	Status of implementation of PBN in the AFI Region	The meeting will review available information on status of PBN implementation in the AFI Region, with reference to the <i>Regional PBN Implementation Plan</i> and identify further action to foster implementation. Information from this agenda item will also be used to update the Performance Framework Forms (PFFs)
A & D	3	PBN and GNSS Regional Performance Objectives, Update on Actions	The meeting will review the Regional Performance Objectives relevant to PBN and GNSS implementation, note action taken thereon, and update the <i>Performance Framework Forms (PFFs)</i> as necessary
D	5	AFI GNSS Implementation Strategy	The meeting will review outcome of APIRG 17 and other developments since, and provide advice for high level decisions regarding augmentation of GNSS to complement Baro-VNAV capabilities in meeting the Assembly Resolution A36-23 APV

			goals and <i>Regional PBN Implementation Plan</i> targets .
D	7	Review of Terms of Reference (TOR) of the PBN/GNSS Task Force and Work Programme	The meeting will review the TOR and work programme of the PBN/GNSS Task Force in light of the PFFs and other identified PBN and GNSS implementation tasks, and make necessary adjustments.
D	8	Date and Venue of the next meeting	The meeting will agree on the tentative dates and provisional agenda for the next meeting of the PBN/GNSS Task Force
	9	Any other business	Another other relevant matters not covered by the above agenda items may be covered under this agenda item

**First Meeting of the APIRG Performance Based Navigation and Global Navigation
Satellite System Implementation Task Forces (PBN/GNSS TF/1)
(Nairobi, 12 - 14 October 2010)**

INFORMATION BULLETIN

1. SITE OF THE MEETING

1.1 The Meeting will be held at the **Silver Springs Hotel, Nairobi, Kenya**. The Silver Springs Hotel is located at Argwings Kodhek Road approximately 7 minutes drive from the city centre. The ICAO Regional Office contacts are:

Telephone: +254-20-762 23 95/96
Fax: +254-20-7621092/7623028
e-mail: icao@icao.unon.org

Meeting Coordinator:

Mr. Seboeso Machobane, RO/ATM
Tel. +254-20-7622372/74
Cell: +254-717-555811
e-mail: seboeso.machobane@icao.unon.org

2. REGISTRATION

2.1 Registration of participants will be from 0830 to 0900 hours.

Opening Session

2.2 The official opening of the meeting will take place on 12 October 2010 at 0900 hrs.

3. HOTEL INFORMATION

3.1 Participants are requested to make their own hotel reservations and indicate that they are attending an ICAO Meeting in order to acquire special rates for UN. A list of recommended hotels is attached.

4. TRANSPORTATION

From the Airport

4.1 Jomo Kenyatta International Airport is situated 16 kilometres (about 20-minute drive depending on the traffic) from the city centre. The fare from the airport to the city centre by special buses (namely City Hoppa and Double M) is Ksh 60. Taxis are readily available. The taxi fare from the airport to the city centre is between Kshs.1000 – 1500 however it is advisable to establish the fare before getting into the vehicle. The list of recommended taxis is listed below:-

BUZZ A CAB: Tel: +254 (0) 721 34 95 90 /(0)734 82 85 85
Land line +254 20 828585 or 828774
(From airport to Panari Hotel Ksh.600 and for airport to city centre is between ksh.1000 - 1500)

KENATCO: Tel: +254 20 824248/+254 20 225123/+254 20 230771/+254 20 230772
(From airport to Panari Hotel Ksh. 900, and from airport to city centre between Ksh 1200 - 1500)

JATCO TAXIS: Tel: +254 20 4448162/0722648383/0722725131/ 0733 701494
Fax: 4442114 (from airport to Panari Hotel Ksh.800 and airport to City Centre between Ksh.1200 -1500)

5. VISA

5.1 While all travellers arriving in Kenya should have a valid passport, Kenya entry visas are not required for nationals from some countries. Participants are therefore advised to ascertain whether or not they are exempt from the Kenyan entry visa requirement at our respective embassies.

5.2 Those who are not exempt should apply for visas well in advance from Kenya High Commissions or Embassies, which will issue them upon presentation of documentation showing that the applicants are designated representatives to a particular UN Meeting to be held in Nairobi. In countries where there is no Kenyan Embassy or High Commission, the British Embassy or High Commission will generally represent Kenya, and be in a position to issue visas.

6. HEALTH

6.1 Participants must ensure that they take out travel insurance (including health) from their home country for the duration of their stay in Nairobi. Participants should particularly ensure that their insurance is applicable in Nairobi. Furthermore, participants must carry evidence of current health/hospitalization insurance such as cards that may be produced to health institutions should need arise. Participants are also strongly encouraged to provide information during registration, on their next of kin who may be contacted on behalf the participant should need arise.

6.2 Presentation of yellow fever certificate at the point of entry is highly required for the following African countries – Angola, Benin, Burkina Faso, Burundi, Comoros, Central African Republic, Chad, Congo, DRC, Ivory Coast, Ethiopia, Gabon, Gambia, Ghana, Guinea Bissau, Guinea Equatorial, Liberia, Mali, Mauritania, Mozambique, Niger, Nigeria, Somalia, Congo, Rwanda, São Tomé e Príncipe, Senegal, Sierra Leone, Tanzania, Togo, Uganda. If the certificate cannot be made available, vaccination will take place on point of entry against payment of 15\$. You may wish to visit World Health Organization (WHO) website <http://www.who.int/ith/> for information on Kenya.

6.3 Please note that a clinic is available at the UN Gigiri Complex.

7. WEATHER AND LOCAL TIME INFORMATION

7.1 The mean minimum temperature during the month of October is 13 °C and the mean maximum temperature is 24 °C.

8. LOCAL CURRENCY AND FOREIGN EXCHANGES RATES

8.1 The basic unit of currency is the Kenyan shilling (Ksh), which is divided into 100 cents. There are silver and bronze coins of 1 shilling; bronze 5 shillings, 10 shillings 20 shillings and 40 shillings. Notes are issued in denominations of 50, 100, 200, 500 and 1000 shillings.

8.2 Kenya shilling exchange rates are determined by the inter bank trade which varies daily. The dollar rates fluctuate from Ksh.70 to 80.

8.3 There is no limit to the amount of foreign bank notes or traveller's cheques, which visitors may bring into Kenya. However, the export of Kenya currency by visitors is strictly forbidden. A maximum of 400 shillings may be taken out.

8.4 Commercial Banks and Forex bureaux provide exchange facilities. Most banks are open between 9.00 am to 4.00 pm from Monday to Friday and between 9.00 am to 12.00 am on the first and last Saturday of the month. Hotels also offer exchange facilities but at a small extra fee. For those who may need Kenyan currency immediately on arrival, the banks at Jomo Kenyatta international airport are open daily from 7.00 am to midnight and will change foreign currency into Kenya shillings. Please keep a receipt after changing your foreign currency to enable you to change back the remaining shillings into foreign currency when you are leaving the country. Banking and postal facilities are available at the UN Gigiri Complex.

9. TELEPHONES

9.1 World wide direct connections are available, using the international code or telephone operator if necessary. From abroad dial 254 followed by required number. There are 4 mobile operators: Orange, Safaricom, YU and Zain.

10. SECURITY

10.1 Please visit the site <http://www.unon.org> and click on "Security Advice" for the latest information. Participants will have to retrieve their badges at the security post at the entrance of the UNON complex in order to be admitted. It is therefore important that the Regional Office be advised as soon as possible of the names of the participants in order for badges to be prepared for them.

List of Hotels/Rates 2010

HOTEL	RATES TARIFF US \$	ADDRESS	TELEFAX NO.	TELEPHONE	Email
Tribe Hotel	220.00 (SBB) Free shuttle transfer to/from UN Gigiri to the hotel from 7 a.m. to 9 a.m. every 30 minutes and 4.30 p.m. to 6.00p.m. every 30 minutes	1km from UN offices in Gigiri Market Hotel P O Box 1333 Nairobi – 00621	254-20-7200110	254-20-7200106	reservations@tribehotel-kenya.com
Silver Springs Hotel	Standard Single Kshs.9,000 Standard Double Kshs.12,000	Argwings Kodhek Road, Hurlingham approximately 7 minutes drive from the city centre.	254-20-2720545	254-20-2722451/2	sales@silversprings-hotel.com
Intercontinental Hotel	185.00 (SBB) 205.00 (DBB)	Cr. City Hall Way, Uhuru Highway	254-20-32000030	254-20- 32000000	reservations@interconti.co.ke/ Josephine.wakhu@icnairobi.com
Holiday Inn	199.00 (SBB) 224.00 (DBB)	Cr. Parklands Road and Mpaka Lane	254-20-3748823	254-20-3740920/1 3740906	admin@holidayinn.co.ke khaveres@holidayinn.co.ke
SixEighty Hotel	Ksh.4,105.00(SBB) Ksh.5,775.00(DBB)	Cr. Muindi Mbingu Street/Kenyatta Avenue	254-20-332908	254-20-315680	info@sentrim.com
The Stanley Hotel	Ksh.10,850.00(SBB) Ksh.13,650.00(DBB)	Cr. Kenyatta Avenue/Kimathi Street	254-20-249757	254-20-316377	reservations@sarova.co.ke
			Reserv. 254-20-2715566	Reserv. 254-20-2713333	
Hilton Hotel	US\$113 (SBB) US\$138 (DBB)	Mama Ngina Street	254-20-250099	254-20-2790000	Reservations.nairobi@hilton.com Benard.itebete@hotmail.com
Nairobi Safari Club	US\$160.00 (SBB)* US\$180.00 (DBB)*	University Way/Koinange Street	254-20-224625 or 215137	254-20-251333	sales@nairobisafariclub.com
Meridian Court Hotel	Kshs. 4,000.00 (SBB) Kshs. 4,800.00 (DBB)	Murang'a Road, off Moi Avenue	254-20-333658	254-20-313991	Meridian@bidii.com
Jacaranda Hotel	US\$188.00 (SBB) US\$234.00 (DBB)	Chiromo Road, Westlands		254-20-4448713/4/5/6/7	Sales- jngroup@africanonline.co.ke
Grand Regency	US\$185.00 (SBO) US\$210.00 (DBO)	Loita Street	254-20-217120	254-20- 228820 254-20 - 211199	jsian@laicoregencyhotel.co.ke
Ambassador Hotel	US\$45.00(SBB) US\$55.00(DBB)	Moi Avenue	254-20-336860	254-20-242933 226733	hotellambassador@nbi.ispkenya.com
Windsor Hotel	183.00 (SBB) 245.00 (SBB)	Off Kiambu Rd	254 20 8560160/1	254 20 8562300	admin@windsor.co.ke
The Panari Hotel	US\$150.00 (SBB) US\$180.00 (DBB)	Mombasa Road	254 20 828985	254 20 828990/3 254 20 6946000	info@panarihotel.com sheri.a@panarihotels.com

A dollar is changing at 74 – 77 Kenya shillings.

These rates are subject to change without notice.

DBB = Double, Bed & Breakfast; SBB = Single, Bed and Breakfast

Note: When making their reservations, please specify that you are attending an ICAO Meeting in order to be accorded special rates for UN.

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 study, 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

- 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/Baro-VNAV).
- 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 Plan and PBN in particular, in order to update the Regional plans accordingly.
- h) Coordinate with other ICAO Regions as necessary to address implementation interface issues.

- i) Undertake other functions relevant to implementation of PBN as assigned by APIRG.
- j) Develop and update (as necessary) the Regional PBN Implementation Strategy and Plan.
- k) Develop the PBN performance objectives and related action plans for en-route, terminal and approach phases of flight; and;
- l) Report to APIRG through its ATM and CNS Sub-groups.

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.
-