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国际民用
航空组织

Bureau Afrique Occidentale et Centrale / Western and Central African Office

T 1/32 - 0305

14 April 2011

Subject: Second Meeting of the APIRG Performance Based Navigation and Global Navigation Satellite System Implementation Task Force (PBN/GNSS TF/2) (Dakar, Senegal, 13 - 15 June 2011)

Action required: Reply by 20 May 2011

Sir/Madam,

I have the honour to refer to APIRG 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 second meeting of the AFI Performance Based Navigation/Global Navigation Satellite System (PBN/GNSS TF/2), which will be convened in Dakar, Senegal, from 13 to 15 June 2011.

I would like to take this opportunity to highlight the importance of assigning appropriate expertise to participate in this meeting, in order to achieve the desired contribution and outcome of the meeting, as well as to facilitate the necessary continuity for implementation. In this regard, you are invited to review the attached terms of reference of the Task Force, the agenda of this meeting and the report of the PBN/GNSS TF/1, in order to make an informed decision on the composition of your delegation. It is nevertheless noteworthy that the meeting will require both air traffic management and GNSS expertise.

The provisional agenda with explanatory notes is provided at **Attachment A** to this letter, and the bulletin providing information for participants and hotel list in Dakar is in **Attachment B**. For ease of reference, the terms of reference (TOR) of the PBN/GNSS Task Force is provided in **Attachment C**.

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 information bulletin including hotel list, as well as working papers for the meeting will, as they become available, be posted on the ICAO WACAF Regional Office website at: www.icao.int/wacaf.

In order to facilitate necessary planning and preparations for the meeting, I would appreciate if you could, at your earliest convenience, preferably not later than **20 May 2011**, confirm the participation of your Administration/Organization to the meeting by forwarding your response to the WACAF Regional Office at following e-mail address (icaowacaf@dakar.icao.int), or fax number +221 33 823 6926, giving the name(s) and official job titles of your nominees on the registration form provided at Attachment D to this letter.

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

F-02 *Emil S*
M. S. Jallow
Regional Director

Attachments: A: Proposed agenda and explanatory notes
B: Information Bulletin
C: Terms of Reference of the PBN/GNSS TF
D: Registration Form



**Draft Agenda with Explanatory Notes
(PBN/GNSS TF/2)**

(Dakar, Senegal, 13 - 15 June 2011)

Strategic Objectives	Agenda Item No.	Subject	Explanatory Notes
A	1	Election of Chairperson and Adoption of the Agenda	The meeting will review and adopt the agenda for the Second PBN/GNSS Task Force.
A	2	Review and follow up of Recommendations, Conclusions and Decisions applicable to the Task Force	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	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. The meeting may also develop exemplary planning material for guidance of States in their national PFFs.
A	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 <i>Performance Framework Forms (PFFs)</i> .
A	5	AFI GNSS Implementation Strategy	The meeting will review the outcome of APIRG/17 and other developments since, and decide on further action to support implementation of Assembly Resolution A37-11 and the AFI Regional PBN Implementation Plan.
A	6	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.
A	7	Date and Venue of the next meeting	The meeting will agree on the tentative dates and provisional agenda for the PBN/GNSS TF/3 meeting.
	8	Any other business	Any other relevant matters not covered by the above agenda items may be covered under this agenda item.



**Second Meeting of the APIRG Performance Based Navigation and
Global Navigation Satellite System Implementation Task Forces (PBN/GNSS TF/2)**

(Dakar, Senegal, 13 - 15 June 2011)

GENERAL INFORMATION BULLETIN

1. Organization, Site and Dates

The Second Meeting of the APIRG Performance Based Navigation and Global Navigation Satellite System Implementation Task Force (PBN/GNSS TF/2) will be held at the ICAO Western and Central African Office in Dakar, Senegal, from 13 to 15 June 2011.

2. ICAO Western and Central African Office

The ICAO Western and Central African Regional Office is located at 15, Boulevard de la République, Dakar; on the Second floor of the building.

Telephone number : (221) 33 839 93 93
Fax : (221) 33 823 69 26
AFTN : GOOVICOX
Sitatex : DKRCAYA
E-mail : icaowacaf@dakar.icao.int

Meeting Coordinator

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E-mail: rsavage@dakar.icao.int

3. Languages

The PBN/GNSS/TF2 meeting will be conducted in the English language only.

4. Opening session

The opening session of the meeting will take place on Monday, 13 June at 0900 hours. The meeting work schedule will be from 0900 to 1500 hours daily, subject to confirmation by the Meeting.

5. Registration

The registration of delegates/participants will take place at the meeting registration desk by the conference room on 13 June 2011 from 0800 hours.

6. **Passport and VISA requirements**

A VISA is required for citizens from Non ECOWAS countries. To this effect, the concerned delegates are kindly requested to complete the formalities in advance in order to obtain entry visas from the Senegalese Embassy in their Country, prior to departure.

Delegates who anticipate difficulties with the immigration procedures should contact the ICAO Western and Central African Office for assistance.

7. **Exchange Rate**

The currency used in Senegal is the Franc CFA (1US \$ = 477,537 FCFA). The exchange of money should be made in banks or authorized places.

8. **Transportation**

The International airport of Léopold Sédar Senghor of Dakar is situated at about 15 km from downtown. Taxis are available at any time of the day. The charge is 5,000 FCFA from the airport to downtown at daytime and is posted at the arrival hall.

9. **Health**

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

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, Kenya, Liberia, Mali, Mauritania, Mozambique, Niger, Nigeria, Somalia, Congo, Rwanda, São Tomé e Príncipe, Sierra Leone, Tanzania, Togo, Uganda. You may wish to visit World Health Organization (WHO) website <http://www.who.int/ith/> for information on Senegal. Visitors to Senegal arriving from cholera infected areas should have valid vaccination certificates.

10. **Climate**

The minimum temperature during the period is 23°C and the maximum temperature is 28°C.

11. **Lodging**

A list of selected hotels in Dakar is enclosed. The hotel rates quoted are subject to confirmation when making reservations.

HOTEL LIST / LISTE DES HOTELS

Rate in FCFA/Prix

Name/Nom	Address/Adresse / ☎	Fax / E-Mail	Single	Double
* Al Afifa ***	46 Rue Jules FERRY B.P. 3474 ☎ 33 89.90.90	33 823 88 39 gmbafifa@orange.sn Petit déjeuner 3 600	37 950	41 250
Al Baraka ***	35, Rue El Hadj A. K. Bourgi, B.P. 578 ☎ 33 822 55 32	33 821 75 41 <i>Petit-déjeuner: 3 500 F</i>	25.600	31.200
Atlantic/Ocean ***	Yoff Route de l'Aéroport (à 1 km) ☎ 33 820 00 77 33 820 00 47	Climatisé +TV [®] <i>Petit-déjeuner: 3 000 CFA</i> Climatisé [®]	28.000 25.000	35.000 30.000
Faidherbe	Avenue Faidherbe x Raffanel B.P. 3197 Dakar ☎ 33 889 17 50 -	33 889 17 4 Climatisé+TV [®] faidherbe@orange.sn <i>PD: 4.400</i>	38 400	45.400
Farid ***	51, Rue VINCENS B.P. 1514 ☎ 33 821 61 27	33 821 08 94 PD : 4 000	38.100	42.200
* Ganale	38, Rue Amadou A. NDOYE ☎ 33 889 44 44	33 822 34 30 ganale@sentoosn <i>Petit-déjeuner: 4 200 FCA</i>	35.600	42.200
* Indépendance ***	Place de l'Indépendance X Av.Pompidou ☎ 33 823 10 19 33 823 10 50	33 821 11 17 hotelhi@sentoosn	29.600	34.200
Lagon 2 ***	Route de la Corniche-Est ☎ 33 889 25 25 - 33 82360 31	33 823.77.27 lagon1@sentoosn <i>Petit-déjeuner inclus</i>	72.100	81.200
Le Méridien Président** ***	Pointe des Almadies - BP8181 Dakar Yoff ☎ (221)33 869.69.49 - 33 869.69.29	(221)33 869.69.99 <i>Petit-déjeuner compris</i> resa.meridien@sentoosn	86 000 102 000	100 000 116 000
* Miramar	25-27, Rue Félix FAURE ☎ 33 823 20 97 (near/près UNESCO)	33 823 35 05 <i>Petit déjeuner: 2 500 CFA</i>	28 000	35.000
Nina ***	Rue du Dr. Theze X Rue A.a. Ndoye ☎ 33 889 01 20	33 889 01 81 <i>Petit déjeuner : 4000</i> hotelnina@sentoosn	30.000	36.000
ONOMO HOTEL	Route de l'Aéroport BP 38 233-Dakar/Yoff - Tél. 221 33 869 06 10	33 820 33 01 <i>Petit-déjeuner : 4 500 CFA</i> SALES.DAKAR@HONOMOHOTEL.COM	42 400	
Océanic	Rue de Thann (Marché Kermel) ☎ 33 822 20 44 - 33 822 17 18	33 821 52 28 <i>Petit-déjeuner: 2 500 CFA</i>	21.600	25.800

Name/Nom	Address/Adresse / ☎	Fax / E-Mail	Single	Double
* Plateau	62, Rue Jules FERRY B.P. 2906 ☎ 33 823 44 20 33 823 15 26 33 823 47 80	33 822 50 24 <i>Petit-déjeuner: 3 000 CFA</i>	26.000	30.000
Saint Louis Sun ***	68, Rue Félix FAURE ☎ 33 822 25 70	33 822 46 51 <i>Petit-déjeuner: 2 500 CFA</i>	21 210	26.670
Savanna**** ***	Pointe Bernard Petite Corniche BP 6096 Dakar ☎ 33 849 42 42	33 849 42 43/ 33 823 85 86 hotel@savanna.sn <i>Petit-déjeuner: 8 000 CFA</i>	60.800	65.100
Sokhamon	Boulevard Roosevelt x Nelson Mandela Dakar ☎ 33 889 71 00	33 823 59 89 hotelsokhamon@sento.sn <i>Petit-déjeuner : 5 500 CFA</i>	43 200 63 000	47 700 67 500
Airport hotel	route de l'Aéroport +221 33 869 78 78	sacevhotel@orange.sn <i>Petit-déjeuner : 4 500 CFA</i>	49 600	57 200
Teranga** ***	Place de l'Indépendance (Rue Carnot x Colbert) B.P. 3380 ☎ 33 889 22 00 - 33 823 10 44 - 33 823 55 02	33 823 50 01 teranga@ns.arc.sn	Vue/ville Vue/mer 76 500 93.000	76.500 93.000
La Croix du Sud ***	20, Avenue du Roi Hassane II (Ex Avenue Albert Sarraut) Tél. 33 889 78 78	33 823 26 55 croixsud@orange.sn <i>Petit-déjeuner inclus</i>	50 600	61 200
TERROUBI****	Bd Martin Luther King Corniche-Ouest – Tél. 33 839 90 39	Fax: 33 839 90 45 reservation@terroubi.com	Vue jardin Vue de mer	95 000 112 000
Café de Rome	30, Bd de la République Tél. 33 849 02 00	Fax: 33 823 63 84 Hotel.resa@anfa-group.com <i>Petit déjeuner : à la carte</i>	54 200 59 800	68 200 74 200

* Special rates for ICAO. (Delegates should specify that they are attending an ICAO meeting).
Tarifs spéciaux pour l'OACI. (Les délégués doivent préciser qu'ils participent à une réunion OACI).

** Reservation may be requested by fax or e.mail and may indicate ICAO rates
Les réservations doivent être faites par fax ou par e.mail en indiquant le tarif OACI

*** Hotel can provide transport from and to the airport at their own expense (Delegates should specify if they need transport)
Hôtel pouvant transporter les délégués à partir de l'aéroport et à leur départ de l'hôtel à leur propre charge (Les délégués doivent le préciser en faisant leur réservation)

MISE A JOUR LE 30 mars 2011

AFI PBN/GNSS TASK FORCE

TERMS OF REFERENCE AND WORK PROGRAMME

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 including CNS related GPIs);
- 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 A36-23 as amended, and other relevant resolutions; and
- d) Assist States that may require support in the implementation of PBN.

2. Work Programme

Activity/Task	Assigned person/organ	Target date
<ul 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 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 		

Activity/Task	Assigned person/organ	Target date
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.		

Note: The above tasks are related to ICAO Strategic Objective: A

3. The Task Force shall be guided by the following principles:

3.1 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:

4.1 **States:** AFI States and States having territories in the AFI Region
(Meeting to decide on a concise list, preferably not exceeding 15).

4.2 The Task Force comprises of the following expertise:
Regulatory authorities and ANSP professionals who are charged with the responsibilities relating to

PBN implementation. These may be from various fields of air navigation services or flight operations;

4.3 Professionals from Regulatory authorities who are charged with the responsibilities for operational approvals. These will include such officials as from air navigation service, flight operations and airworthiness fields.

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

4.4 **Organizations:** ASECNA, IATA, IFALPA, IFATCA and ESA. Additional representatives from International/Regional Organizations may be invited when required.



**Second Meeting of the Performance Based Navigation/Global Navigation
Satellite System Task Force (PBN/GNSS TF/2)
(Dakar, Senegal, 13 - 15 June 2011)**

ATTENDANCE NOTIFICATION FORM

**Please fill and forward the form in the same (MS Word) format
Insert information in the grey empty boxes
Where appropriate, click to make the appropriate selection**

1. Attending the PBN/GNSS TF/2

← Click on grey area to select
indication of attendance

2. Surname **Click to select title**

3. Given Name (s)

4. Job Title

5. State/Organization

6. Mailing Address

7. Telephone

8. Fax

9. E-mail address

10. Hotel

APIRG Body		Click to select Yes/No
FPL POC	Yes	Click
RVSM PM	Yes	Click
PBN NPM	Yes	Click
TAG POC	Yes	Click

Note: Participants are expected to make their own hotel/visa arrangements. Hotel information will be provided in the information bulletin.

Please complete and return this form to:

The Regional Director
ICAO WACAF Regional Office, Dakar
Email : icaowacaf@dakar.icao.int
Fax: + (221) 33 823 69 26