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国际民用  
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**Ref.:** T 8/5.10:AP169/11 (CNS)

14 December 2011

**Subject:** GNSS Implementation Seminar/Workshop  
26 March 2012 (Bangkok, Thailand)

**Action Required:** Respond at your earliest, preferably  
**before 14 February 2012**

Sir/Madam

I have the honor to inform you that APANPIRG in its Twenty Second Meeting reviewed the outcome of the GNSS survey conducted in November 2010, and adopted following Conclusion:

**Conclusion 22/26 - Workshop on GNSS implementation**

That, ICAO be invited to organize a Workshop on GNSS implementation to address issues identified through the GNSS implementation survey conducted in 2010.

In order to follow up above APANPIRG Conclusion, a one day “*GNSS Implementation Seminar/Workshop*” has been planned back-to-back with the Ninth Performance Based Navigation (PBN) Task Force scheduled from 27 to 30 March 2012.

I would request your Administration to confirm to this Office at the earliest (preferably **before 14 February, 2012**) the services of suitable expert(s) to make presentations at the Seminar/Workshop on the significant GNSS implementation issues (those mentioned in the attached result of survey and additional similar issues) to address the concerns raised to speed up GNSS implementation in the Region.

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

Mokhtar A. Awan  
Regional Director

**Enclosure:** Result of GNSS Survey

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## RESULT OF GNSS SURVEY IN NOVEMBER 2010

APANPIRG/21 in September, 2010 noted with concern slow progress of GNSS implementation in the region. It was noted that implementation of some of the GNSS applications like PBN, ADS-B etc. were progressing slowly and it was agreed that implementation of GNSS is essential for the enhancement of safety and capacity of aircraft operation. To assess the level of GNSS implementation in the region and to assist the States in its speedy implementation, a survey was conducted through the State Letter dated 30 November 2010.

Out of 40 survey questionnaires circulated, 24 were returned (60% response rate) after a reminder was issued on 11 May 2011. Some of the significant survey outcomes are listed below:

- 1) 19 States only have developed their GNSS implementation plan. Out of the remaining 21 States, some may not have even promulgated regulatory arrangements so far for the implementation of GNSS in their administrations;
  - 2) Most of the Administrations provide approval on a supplementary basis for RNAV SIDs/STARs, Non Precision Approaches, Approach with Vertical Guidance etc. Many administrations are also providing approval for Oceanic/Remote Areas on a "Sole Means" basis;
  - 3) Most of the Administrations did not provide any positive indication about the aircraft equipage in their administration. Information on the level of aircraft equipage of GNSS is essential to develop further plans;
  - 4) 14 Administrations have already planned the decommissioning of their ground based navigation systems in next 5/10/15 years. A regional consensus is required to be developed on this issue of decommissioning of ground based navigation systems (like NDB etc.);
  - 5) Out of the 24 responses received, 22 confirmed that they have used guidance provided in Doc 9849 for implementation of GNSS in their region;
  - 6) While 6 Administrations have planned to implement SBAS, 14 Administrations plan to use GBAS. Out of the 24 responses received, 9 administrations do not have any plans to use SBAS or GBAS. Implementation of these GNSS augmentations may increase if the Administrations are informed about the specific benefits they can derive from these augmentations;
  - 7) 4 Administrations were permitting the use of FMS GNSS based computed distance checks for ILS with Marker Beacons only (no DME). It may be worthwhile to take up with NSP, promulgation of a procedure to permit FMS GNSS based computed distance checks for ILS with Marker Beacons only;
  - 8) Most of the States which responded to the questionnaire plan to use ADS-B and 13 States plan to use ADS-C also; and
  - 9) 17 (out of 24) States confirmed that they need help/guidance from ICAO in the development of their GNSS plan and its implementation.
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