



Republic of the Philippines  
**CIVIL AVIATION AUTHORITY OF THE PHILIPPINES**

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**MEMORANDUM CIRCULAR NO.:** 019-17

**TO :** ALL CONCERNED

**FROM :** DIRECTOR GENERAL

**SUBJECT :** AMENDMENT TO PHILIPPINE CIVIL AVIATION REGULATIONS - AIR NAVIGATION SERVICES (CAR-ANS) PART 6 INCORPORATING AMENDMENT 86 TO ICAO ANNEX 10 VOLUME 1

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**REFERENCE:**

1. Philippine Civil Aviation Regulations- Air Navigation Services Part 6
2. ICAO Annex 10 Volume 1; Amendment 86
3. Regulations Amendment Procedures
4. Board Resolution No. 2012-054 dated 28 September 2012

Pursuant to the powers vested in me under the Republic Act 9497, otherwise known as the Civil Aviation Authority Act of 2008 and in accordance with the Board Resolution No.: 2012-054 dated 28 September 2012, I hereby approve the incorporation of ICAO Annex 10 Volume 1 Amendment No. 86 to the Philippine Civil Aviation Regulations – Air Navigation Services (CAR-ANS) Part 6.

**ORIGINAL REGULATION SUBJECT FOR REVIEW AND REVISION:**

**CAR-ANS Part 6**

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**APPENDIX B. TECHNICAL SPECIFICATIONS FOR THE GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)**

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**3.6.4 DATA CONTENT**

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3.6.4.1 *Message types.* The message types that can be transmitted by GBAS shall be as in Table B-63.

*Note. Currently only 9 of the 256 available message types have been defined, with the intent that future needs can be addressed in the remaining message types.*

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**Table B-63. GBAS VHF data broadcast messages**

Message type identifier	Message name
0	Spare
1	Pseudo-range corrections
2	GBAS-related data
3	Null message Reserved for ground based ranging source
4	Final approach segment (FAS) data
5	Predicted ranging source availability
6	Reserved
7	Reserved for national applications
8	Reserved for test applications
9 to 100	Spare
101	GRAS pseudo-range corrections
102 to 255	Spare

*Note.*— See 3.6.6 for message formats.

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3.6.4.2.4 The measurement block parameters shall be as follows:

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3.6.4.3.2 *Additional data blocks.* For additional data blocks other than additional data block 1, the parameters for each data block shall be as follows:

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Coding: 1000 0000 = Reference receiver was not used to compute the pseudo-range correction.

*Note.*— Some airborne receivers may expect a static correspondence of the reference receivers to the indices for short-service interruptions. However, the B value indices may be reassigned after the ground subsystem has been out of service for an extended period of time, such as for maintenance.

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**ADDITIONAL DATA BLOCK NUMBER:** the numerical identifier of the type of additional data block.

Coding: 0 to 1 = reserved

2 = additional data block 2, GRAS broadcast stations

3 = reserved for future services supporting Category II/III operations

4 = additional data block 4, VDB authentication Parameters