



MEMORANDUM CIRCULAR NO.: 04-18

TO : ALL CONCERNED

FROM : DIRECTOR GENERAL

**SUBJECT : AMENDMENT TO PHILIPPINE CIVIL AVIATION
REGULATIONS - AIR NAVIGATION SERVICES (CAR-ANS)
PART 6 INCORPORATING AMENDMENT 88B TO ICAO
ANNEX 10 VOLUME 1**

REFERENCE:

1. Philippine Civil Aviation Regulations- Air Navigation Services Part 6, Issue 3 Amendment No. 4
2. ICAO Annex 10 Volume 1; Amendment 88B
3. CAAP 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. 88B to the Philippine Civil Aviation Regulations – Air Navigation Services (CAR-ANS) Part 6.

ORIGINAL REGULATION SUBJECT FOR REVIEW AND REVISION:

CAR-ANS Part 6

...

STANDARDS FOR RADIO NAVIGATION AIDS

1. General

...

6. Related Documents

6.1 This CAR-ANS should be read in conjunction with:

...

Introductory Notes:

Note 1. In accordance with the ICAO guidance on the use of the text of the annexes in national regulations this appendix reproduces SARPS for Radio Navigation Aids that are of regulatory nature together with signal-in-space specifications essential for intended system operation.

Note 2. Throughout this CAR-ANS, original Annex 10 numbering is maintained for traceability purposes, i.e. CAR-ANS requirement 6.2.1.1 corresponds to a standard in paragraph 2.1.1 in Chapter 2 of Annex 10, Volume I. The affixed “6” indicates CAR-ANS Part 6.

6.1 DEFINITIONS

Note 1.— All references to “Radio Regulations” are to the Radio Regulations published by the International Telecommunication Union (ITU). Radio Regulations are amended from time to time by the decisions embodied in the Final Acts of World Radiocommunication Conferences held normally every two to three years. Further information on the ITU processes as they relate to aeronautical radio system frequency use is contained in the Handbook on Radio Frequency Spectrum Requirements for Civil Aviation including statement of approved ICAO policies (Doc 9718).

...

Note 3.— The terminology used in this CAR-ANS to refer to instrument approach operations is based on a previous version of the Annex 6 classification of instrument approach and landing operations. It can be mapped to the Annex 6 definitions as follows:

Performance requirements in support of instrument approach operations		
Annex 10 system performance		Annex 6 method – Approach operation category
Non-precision approach (NPA)		2D-Type A ⁽¹⁾
Approach with vertical guidance (APV)		3D-Type A ⁽²⁾
Precision approach (PA)	Category I, DH equal to or greater than 75 m (250 ft)	3D-Type A ⁽³⁾
	Category I, DH equal to or greater than 60 m (200 ft) and less than 75 m (250 ft)	3D-Type B - CAT I ⁽³⁾
	Category II	3D-Type B - CAT II
	Category III	3D-Type B - CAT III
(1) Without vertical guidance.		
(2) With barometric or SBAS vertical guidance.		
(3) With ILS, MLS, GBAS or SBAS vertical guidance.		

...

— END —

AMENDED REGULATION AFTER REVISION:

CAR-ANS PART 6:

...

STANDARDS FOR RADIO NAVIGATION AIDS

1. General

...

6. Related Documents

6.1 This CAR-ANS should be read in conjunction with:

...

Introductory Notes:

Note 1. In accordance with the ICAO guidance on the use of the text of the annexes in national regulations this appendix reproduces SARPS for Radio Navigation Aids that are of regulatory nature together with signal-in-space specifications essential for intended system operation.

Note 2. Throughout this CAR-ANS, original Annex 10 numbering is maintained for traceability purposes, i.e. CAR-ANS requirement 6.2.1.1 corresponds to a standard in paragraph 2.1.1 in Chapter 2 of Annex 10, Volume I. The affixed “6” indicates CAR-ANS Part 6.

6.1 DEFINITIONS

Note 1.— All references to “Radio Regulations” are to the Radio Regulations published by the International Telecommunication Union (ITU). Radio Regulations are amended from time to time by the decisions embodied in the Final Acts of World Radiocommunication Conferences held normally every two to three years. Further information on the ITU processes as they relate to aeronautical radio system frequency use is contained in the Handbook on Radio Frequency Spectrum Requirements for Civil Aviation including statement of approved ICAO policies (Doc 9718).

...

Note 3.— The terminology used in this Car-ANS to refer to instrument approach operations is based on a previous version of the Annex 6 classification of instrument approach and landing operations. It can be mapped to the Annex 6 definitions as follows:

Performance requirements in support of instrument approach operations		
Annex 10 system performance		Annex 6 method — Approach operation category
Non-precision approach (NPA)		2D-Type A ⁽¹⁾
Approach with vertical guidance (APV)		3D-Type A ⁽²⁾
Precision approach (PA)	Category I, DH equal to or greater than 75 m (250 ft)	3D-Type A ⁽³⁾
	Category I, DH equal to or greater than 60 m (200 ft) and less than 75 m (250 ft)	3D-Type B — CAT I ⁽³⁾
	Category II	3D-Type B — CAT II
	Category III	3D-Type B — CAT III

(1) Without vertical guidance.

(2) With barometric or SBAS vertical guidance.

(3) With ILS, MLS, GBAS or SBAS vertical guidance.

...

— END —

-
- i. **Separability Clause.** - If, for any reason, any provision of this Memorandum Circular is declared invalid or unconstitutional, the other part or parts thereof which are not affected thereby shall continue to be in full force and effect.
- ii. **Repealing Clause.** - All orders, rules, regulations and issuances, or parts thereof which are inconsistent with this Memorandum Circular are hereby repealed, superseded or modified accordingly.
- iii. **Determination of changes.** – To highlight the amendments and/or revisions in the Memorandum Circular, the deleted text shall be shown with strikethrough and the new inserted text shall be highlighted with grey shading, as illustrated below:
1. Text deleted: ~~Text to be deleted is shown with a line through it.~~
 2. New text inserted: New text is highlighted with grey shading.
 3. New text replacing existing text: ~~Text to be deleted is shown with a line through it~~ followed by the replacement text which is highlighted with grey shading.
- iv. **Effectivity Clause.** - This Memorandum Circular shall take effect fifteen (15) days after publication in a requisite single newspaper of general circulation or the Official Gazette and a copy filed with the U.P. Law Center - Office of the National Administrative Register.

So Ordered. Signed this 22 day of January 2017, at the Civil Aviation Authority of the Philippines, MIA Road, Pasay City, Metro Manila, 1301.


CAPTAIN JIM C. SYDIONGCO