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ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL

ORGANISMO ESPECIALIZADO DE LA ONU



Introduction to PANS MET

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01

BACKGROUND



The 2014 Departmental Meeting on Meteorology issued recommendation 5/2, which requested that an appropriate ICAO group, working in close coordination with the World Meteorological Organization, undertake the restructuring of Annex 3, with a view to maintaining the provisions containing "requirements" in Annex 3 and transferring the provisions related to "means of compliance" to new Procedures for Air Navigation Services — Meteorology (PANS-MET).

Subsequently, the Air Navigation Commission (ANC) approved this recommendation at its 197th session in October 2014.



The ANC approved the establishment of the Expert Group on Meteorology (METP) and tasked it with the development of new PANS-MET, which the METP completed in time for its fifth meeting (METP/5) in 2021, which in turn reviewed and approved the new PANS-MET.

In this context, METP/5 noted a number of benefits resulting from the development of the NAPs-MET:

- a) facilitate the transition to a data-centric environment;
- b) improve responsiveness to evolving future requirements; and
- c) clarifying the responsibilities of State authorities.

Consequently, the restructured Annex 3 contains only "requirements" (organic or technical), which are expected to be fairly stable over time, while all the provisions that can be qualified as "means of compliance" (mostly technical specifications), which evolve more rapidly, are located in the PANS-MET. This comprehensive change is part of Amendment 81 of Annex 3.

02

SCOPE AND OBJECTIVES

The PANS-MET are a complement to the Standards and Recommended Practices (SARPs) contained in Annex 3 — Meteorological Service for International Air Navigation. If necessary, they are supplemented by the regional procedures contained in the Regional Supplementary Procedures (Doc 7030).

The Procedures for Air Navigation Services — Meteorology (PANS-MET) specify, in more detail than in the SARPS in Annex 3, the procedures that are actually to be applied by meteorological centres (METs) and MET offices when providing various MET services to aeronautical users.

03

RANK

The Procedures for Air Navigation Services (PANS) do not have the same status as the standards and recommended practices. The latter are adopted by the Council in accordance with Article 37 of the Convention on International Civil Aviation and are subject to the full Article 90 procedure. PANS, on the other hand, are approved by the Council and their implementation at global level is recommended to the Contracting States.

While PANS may contain texts that become SARPs when they have acquired the necessary maturity and stability to be adopted as such, they may also include texts prepared as an extension of the basic principles contained in the relevant SARPs, and whose primary purpose is to assist users in the implementation of those SARPs.

04

IMPLEMENTATION

The implementation of the procedures is the responsibility of the Contracting States, and their application to actual operations takes place only after and to the extent that the States have brought them into force. However, in order to facilitate their processing for implementation by States, the PANS have been drafted in terms that allow MET staff to use them directly.

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PUBLICATION OF DIFFERENCES

PANS do not have the status assigned to standards adopted by the Council as Annexes to the Convention and therefore do not carry the obligation imposed by Article 38 of the Convention to notify differences if they are not implemented.

However, the attention of States is drawn to the provision in Annex 15 to include in their aeronautical information publications lists of significant differences between their procedures and the corresponding ICAO procedures.

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PROMULGATION OF INFORMATION

Information relating to the establishment, removal and changes of facilities, services and procedures affecting aircraft operations, and provided in accordance with the procedures specified herein, should be notified and enter into force in accordance with the provisions of Annex 15.

07

CONTENTS OF THE DOCUMENT

Chapter 1 contains definitions and expressions of restricted meaning.

Chapter 2 contains provisions and procedures for reporting aerodrome meteorological observation information in the form of regular local reports, special local reports, METAR and SPECI, and volcanic activity reports. The relevant technical specifications are set out in Appendix 2.

Chapter 3 contains provisions and procedures that apply to the reporting of aircraft meteorological observation information. The technical specifications relating to air notifications are set out in Appendix 3.

Chapter 4 contains provisions and procedures that apply to the issuance of aerodrome weather forecast information in the form of TAF, TREND and take-off forecasts. The relevant technical specifications are contained in Appendix 2 (TREND) and Appendix 4 (TAF).

Chapter 5 contains provisions and procedures that apply to en-route weather forecast information. The relevant technical specifications are contained in Appendix 5 (forecasts issued by the World Area Forecast Centres), Appendix 6 (Area Forecasts for Low-Altitude Flights) and Appendix 9 (Forecasts of quantitative information on volcanic ash).

Chapter 6 contains provisions and procedures that apply to the issuance of meteorological information containing warnings, warnings and notifications. The relevant technical specifications are mainly contained in Appendix 7, and are supplemented in Appendix 1 (model maps for tropical cyclone and volcanic ash warning information; and SIGMET information) and Appendix 8 (criteria for meteorological phenomena included in SIGMET and AIRMET information; special air notifications (uplink); and aerodrome alerts).

Chapter 7 contains provisions and procedures that apply to the preparation of aeronautical climatological information.

Chapter 8 contains provisions and procedures that apply to the provision of meteorological service for operators and flight crew members. The relevant specifications relating to flight documentation are contained in:

- Appendix 1 (sample maps and forms);
- Appendix 2 (METAR and SPECI);
- Appendix 4 (TAF);
- Appendix 5 (forecasts issued by World Area Forecast Centres);
- Appendix 6 (GAMET); and
- Appendix 7 (SIGMET and AIRMET, volcanic ash advisory information, Tropical Cyclones and Space Weather Conditions)

Chapter 9 contains provisions and procedures that apply to meteorological information to be provided for air traffic services, search and rescue services and aeronautical information services.

Chapter 10 contains provisions and procedures relating to the use of communications for the exchange of meteorological information.

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RELATIONSHIP TO RELEVANT WMO PUBLICATIONS

The provisions contained in the PANS-MET, with the exception of slight drafting differences, are identical to those contained in the Technical Regulations (WMO No. 49), Volume II — Meteorological Service for International Air Navigation, Parts I and II (until 31 December 2023).

The formats for the aeronautical meteorological codes referred to in the PANS-MET are prepared by the World Meteorological Organization on the basis of the aeronautical requirements contained in these NAPs, or as may be established from time to time by the Council. The formats of aeronautical meteorological codes are promulgated in the Manual of Codes (WMO No. 306), Volume I — International Codes.



Gracias!