Requirements for Regulators and Operators on GRF

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Overview

- ICAO provisions on GRF
- Implementation

- Annex 14, Volume 1 and PANS-Aerodromes: fundamental provisions for assessing and reporting runway surface conditions
- Annex 6, Parts I and II: assessment by the pilot-in-command of the landing performance and report for commercial air transport operations
- Annex 8: nature of the information provided by the aircraft manufacturers;
- Annex 3: removal of the runway state group for METAR/SPECI
- Annex 15 and PANS-AIM: syntax and format used for dissemination;
- PANS-ATM: phraseology and communication of special air-reports concerning runway braking
- Guidance materials
 - Aeroplane Performance Manual (Doc 10064)
 - Assessment, Measurement and Reporting of Runway Surface Conditions (Circular 355)

- Annex 14, Volume 1 (sets out the provisions for the introduction of, inter alia, the RCR, RWYCC and the descriptors for assessing and reporting the runway surface condition)
 - Chapter 1. General Definitions
 - Chapter 2. Aerodrome data 2.9 Condition of the movement area and related facilities
 - Chapter 10. Aerodrome maintenance 10.2 Pavements and 10.3 Removal of contaminants
 - Attachment A. Guidance material supplementary to Annex 14, Volume 1
- PANS-Aerodromes, Part II, chapter 1 (contains globally-harmonized procedures complementing the high level requirements in Annex 14, Volume I). It provides guidance on:
 - the concept, objectives and content of the RCR
 - how to assess a runway surface condition and assigning a RWYCC including procedures for the downgrading or upgrading of the codes
 - the use of the runway condition assessment matrix (RCAM) and the requisite operational practices in support of a global reporting format

 Annex 3 (remove the runway state group in the aerodrome routine and special meteorological report (METAR/SPECI) since its continued use would represent a parallel information stream as a duplication of the proposed new provision contained in Annex 15)

Appendix 3. Technical specifications related to meteorological observations and reports.

- 4.8 Supplementary information
- Table A3-2. Template for METAR and SPECI
- Table A3-5. Ranges and resolutions for the numerical elements included in METAR and SPECI
- Annex 8, PART IIIB (concerns the nature of the information provided by the aircraft manufacturers) – Chapter 2. Flight

Annex 6, Parts I and II (establish the requirement for the pilot-in-command to assess the landing performance prior to landing and a requirement for commercial air transport operations to report when the braking action encountered is not as good as reported)

Annex 6, Part I

- Chapter 1. Definitions
- Chapter 4. Flight operations In-flight procedures
- Chapter 5. Aeroplane performance operating limitation 5.2 Applicable to aeroplanes certificated in accordance with Parts IIIA and IIIB of Annex 8

- Annex 6, Part II

- Section 2. Chapter 2.2 Flight operations
- Section 3. Chapter 3.5 Aeroplane performance operating limitations

- Annex 15 and PANS-AIM (dissemination of information that is harmonized with the provisions in Annex 14, Volume I and PANS-Aerodromes as well as the performance information required to be used in the operation of aeroplane)
 - Chapter 1. Definitions
 - Chapter 5. NOTAM
 - Chapter 7. Aeronautical Information Circulars (AIC)
 - Appendix 2. SNOWTAM FORMAT

- PANS-ATM (Correct taxonomy and phraseology to be used throughout the communication chain from the ground staff, through ATS to the flight crew)
 - Chapter 1. Definitions
 - Chapter 4. 4.12 Reporting of operational and meteorological information
 - Chapter 7. 7.5 Essential information on aerodromes conditions
 - Chapter 11. Air Traffic services messages
 - Chapter 12. 12.3 ATC Phraseologies
 - Appendix 1. Instructions for air reporting by voice communication

Implementation - Roles

- ICAO: SARPS, PANS, guidance material (including training guidance), support to States
- States: Ensure awareness, training and deployment
- International Organisations: Provide training, support awareness efforts, support deployment
- Airports: Local deployment, training
- Airlines: Support deployment, training
- Industry: Provide training support, tools

Implementation - States

- Updating State's regulatory framework
 - updating National regulations (transposition of ICAO provisions to the national regulations)
 - filing differences / publishing significant differences in AIP (if required)
- Notification to affected aerodromes, ATS units and users of the new requirements and changes;
- Training of inspectors and oversight by the State of the implementation of regulations;
- Establishment of a national implementation plan that takes into account the modified ICAO provisions;
- Encourage the establishment of a GRF Implementation Team to ensure proper planning and coordination at the State level.

Implementation - Stakeholder responsibilities

- Aerodrome operators: assess the runway surface conditions, including contaminants, for each third of the runway length, and report them by means of a uniform runway condition report (RCR)
- Air traffic services (ATS): convey the information received via the RCR and/or special air-reports (AIREP) to end users (voice communications, ATIS, CPDLC)
- Aeronautical information services (AIS): provide the information received in the RCR to end users (SNOWTAM)
- Aircraft operators: utilize the information in conjunction with the performance data provided by the aircraft manufacturers to determine if landing or take-off operations can be conducted safely and provide runway braking action special air-reports (AIREP)
- Aircraft Manufacturers provide the necessary performance data in the aeroplane flight manual

Implementation – Operators (Airports, ANSPs, airlines, ...)

- Coordination make the necessary changes to the organization, policies and procedures in coordination with all the stakeholders
- Planning establish a GRF implementation plan to ensure timely coordination and implementation
- Awareness identify and make aware all the applicable personnel on this new format
- Equipment Identify and make available all the required equipment and tools
- Training ensure all members of the information chain from data origin to end users are appropriately trained.

