



International Civil Aviation Organization

Aerodrome Certification – Applicable provisions

Aerodrome Certification workshop

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Agenda

The Chicago convention

Annex 14 (Aerodromes)

PANS-Aerodromes (doc. 9981)

Doc 9774 (Manual on Certification of Aerodromes)

Other supporting provisions



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The Chicago Convention (Doc 7300)

- Signed on 7 December 1944.
- Currently 191 States ratified – one of world’s most widely accepted international treaties.
- Only global set of principles/rules governing all aspects of the international civil aviation.
- Contains 96 Articles in 22 Chapters.
- Provides for the establishment of the ICAO.



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THE CHICAGO CONVENTION – Cont'd

STATES “OBLIGATIONS”:

- **Article 28** - Each State agrees to provide airports and air traffic services in conformance with standards and practices established under the Convention.
- **Article 37** - Each State agrees to implement in their national regulations the International Standards and Recommended Practices (SARPs) and Procedures adopted by ICAO in order to ensure the highest practicable degree of uniformity.



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THE CHICAGO CONVENTION – Cont'd

STATES “OBLIGATIONS”:

- **Article 38** - Each State is required to notify ICAO immediately if it finds it impracticable to comply in all respects with any International Standard or Procedure (“filing of differences”).



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Certification of Aerodromes – The Tools

- Annex 14 Volume I – Aerodromes
- PANS-Aerodromes (Doc 9981)
- Doc 9974 – Manual on certification of Aerodromes

And, more than 20 associated Guidance Materials, including:

- *Airport Services Manual (Doc 9137 – 8 parts)*
- *Aerodrome Design Manual (Doc 9157 – 6 parts)*
- *Airport Planning Manual (Doc 9184 – 3 parts)*
- *Safety Management Manual (Doc 9859)*



Standard

“Any specification for physical characteristics, configuration, material, performance, personnel or procedure, the uniform application of which is recognized as necessary for the safety or regularity of int’l air navigation and to which Contracting State will conform in accordance with the Convention; in the event of impossibility of compliance, notification to the Council is compulsory under Article 38.”



Recommended Practice

“Any specification for physical characteristics, configuration, material, performance, personnel or procedure, the uniform application of which is recognized as desirable in the interest of safety, regularity or efficiency of int’l air navigation and to which Contracting State will endeavor to conform in accordance with the Convention.”



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Annex 14 – Aerodromes

Volume I – Aerodrome Design and Operations

Volume II – Heliports

A14 Vol. I, Chapter 1, section 1.4 - Certification of Aerodromes:

Standard (1.4.1) – “States shall certify aerodromes used for international operations in accordance with the specifications contained in this Annex as well as other relevant ICAO specifications through an appropriate regulatory framework.”



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Annex 14 – Aerodromes

A14 Vol. I, Chapter 1, section 1.4 - Certification of Aerodromes:

Recommendation (1.4.2) – “States should certify aerodromes open to public use in accordance with these specifications as well as other relevant ICAO specifications through an appropriate regulatory framework.”

Note to section 1.4.1 (“States shall certify aerodromes...”):

“Note.— Specific procedures on the stages of certifying an aerodrome are given in the PANS-AERODROMES (Doc 9981)”.



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Note to section 1.4 clarifying intent of aerodrome certification:

*“...When an aerodrome is granted a certificate, it signifies to aircraft operators and other organizations operating on the aerodrome that, **at the time of certification**, the aerodrome meets the specifications regarding the facility and its operation, and that it has, according to the certifying authority, the capability to **maintain** these specifications for the period of validity of the certificate. The certification process also establishes the baseline for **continued monitoring of compliance** with the specifications...”*



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1.4.3 The regulatory framework shall include the establishment of criteria and procedures for the certification of aerodromes.

Note.— Guidance on a regulatory framework is given in the Manual on Certification of Aerodromes (Doc 9774).



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Introduction to PANS-Aerodromes



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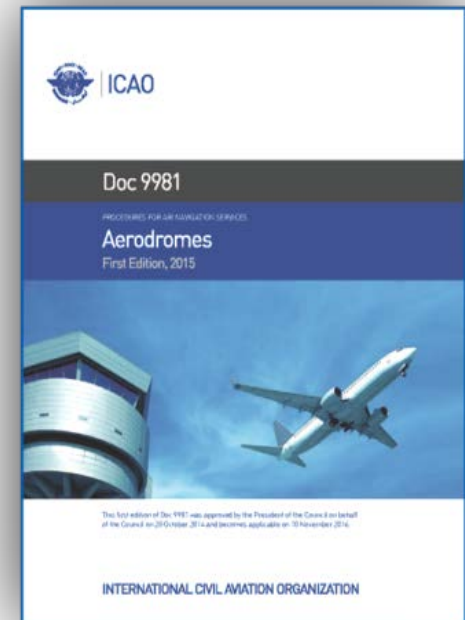
PANS-Aerodromes 2nd edition

Part I — ADR certification, safety assessments and compatibility

Contains the first edition of the document and provides the basic guidelines to States, and those operators and organizations certificating and managing aerodromes.

Part II — Aerodrome operational management

The requirements contained in this part may be applicable to the aerodrome operator and/or other relevant entities operating on the aerodrome. The procedures contained in this part provide an overall framework to allow for a standardized approach to aerodrome operations.





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- **2015** – publication of the **first edition (Part I of the doc)** focused on priority areas revealed by the Universal Safety *Oversight Audit Programme (USOAP) audits* - **aerodrome certification**, conduct of **safety assessments** and **compatibility studies**.
(applicable 2016)
- **2016** – approval and publication of the **second edition (Part II)** – introduction of a single chapter - new **Global reporting Format for assessing and reporting runway surface conditions (GRF)**.
(applicable 2020)



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Proposed third edition (amendment to part II)

Prepared for preliminary review by the ANC in Q4/2017:

1. TRAINING
3. INSPECTIONS OF THE MOVEMENT AREA
4. WORK IN PROGRESS (WIP)
5. FOREIGN OBJECT DEBRIS (FOD)
6. WILDLIFE MANAGEMENT
7. APRON SAFETY
8. RUNWAY SAFETY
9. AERODROME DRIVER PERMIT SCHEME AND VEHICLE/EQUIPMENT SAFETY REQUIREMENT



Historical background

- ANC final review of Amendment 10 to Annex 14, Volume I, in June 2008
- 2009 - feasibility study conducted by Secretariat based on:
 - Introduction of NLA
 - Results of USOAP audits
 - Aerodromes Panel and its various WGs



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Historical background

- Annex 14, Volume I is considered primarily a design document; Many challenges that aerodromes face today are of an operational nature
- Those challenges are addressed in many different ways or not at all. What we need are procedures that provide for standardization in the way aerodromes overcome the operational challenges



Historical background

- At existing aerodromes where full compliance with Standards cannot be achieved, alternative measures may be required in order to accommodate a specific type of aeroplane
- PANS-Aerodromes is needed which would include procedures on how to address such operational issues



Scope and purpose

- The PANS-Aerodromes are complementary to the SARPs contained in Annex 14, Volume I
- Specifies, in greater detail than the SARPs, operational procedures to be applied by aerodrome operators to ensure aerodrome operational safety
- Specifies procedures to be applied by both aerodrome regulators and operators for initial aerodrome certification and continuing aerodrome safety oversight as well as aerodrome compatibility studies



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Status

- The PANS do not have the same status as SARPs, which are adopted by the Council
- PANS are *approved* by the Council and recommended to Contracting States for worldwide application
- May contain material that may eventually become SARPs
- May also comprise material prepared as an amplification of the basic principles in the corresponding SARPs and designed particularly to assist the user in the application of those SARPs



Status

- Appendices are comprised of material grouped separately for convenience but form part of the *Procedures*
- Attachments are comprised of material supplementary to the *Procedures* or included as a guide to their application



Implementation

- The implementation of procedures is the responsibility of Member States; they are applicable to actual operations only in so far as States have enforced them
- However, with a view to facilitating their processing towards implementation by States, they have been prepared in a language that will permit direct use by aerodrome and State personnel to certify, oversee and manage the operational activities of aerodromes



Publication of differences

- Do not fall under the obligation imposed by Article 38 of the Convention to notify differences in the event of non-implementation
- However, attention of States is drawn to the provision in Annex 15 — *Aeronautical Information Services*, related to the publication in their aeronautical information publication (AIP) of lists of significant differences between their procedures and the related ICAO procedures.



Contents of the 1st edition

- Chapter 1 — Definitions
- Chapter 2 — Certification of aerodromes
- Chapter 3 — Safety assessments for aerodromes
- Chapter 4 — Aerodrome compatibility



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Doc 9774 - Manual on Certification of Aerodromes

Developed for adoption or adaptation by States, in order to effectively implement the critical elements of safety oversight system in accordance with Annex 14 Vol I and other relevant ICAO specifications.

Contents:

- 1. Introduction**
- 2. The Aerodrome Certification regulatory system**
- 3. Aerodrome certification model regulations**
- 4. Aerodrome certification procedures**
- 5. Regulatory Authority**



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Doc 9774 – Contents (cont'd):

Appendices dealing with (among others):

- *Aerodrome Manual*
- *Aeronautical studies*
- *Safety Management System*
- *Sample Forms...*

Some of the topics addressed by doc 9774:

- **General explanation of intent of certification**
- **Submission of application & aerodrome manual**
- **Assessing applicant's capability & adequacy of airport infrastructure**



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Some of the topics addressed by doc 9774 – cont'd:

- **Validity of a certificate**
- **Aerodrome operator's obligations**
- **Surrender/transfer/revocation of certificate**
- **Exemptions, if any**
- **Issue/transfer/revoke the certificate as appropriate**



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Thank You