



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

1st Edition PANS-AERODROMES

Background information for

preliminary review by ANC

(Secretariat)

28 May 2013

Phase 1 PANS-Aerodromes



- June 2008 : Final review of Amendment 10 to A14VI concerning separation distances, including a review of §3, ANC *agreed* that Sectt study the feasibility of developing a PANS-AGA that would provide States with ICAO material on how to “operate according to the codes”, for existing airports (AN Min 179-4).

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- February 2009 : ANWP 8379 Feasibility Study on development of PANS-AGA – need, status, scope, organization & scheduling including a proposed Table Of Contents (TOC)
- Based on – introduction of NLA (compatibility issues)
 - Results of USOAP audits (certification, operational issues)
 - AP and its various WGs
- A14V1 perceived to be a design document, not meant for operations

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- Many challenges that aerodromes face today are of an operational nature
- Those challenges are addressed in many different ways or not at all. What is needed are procedures that provide for standardisation in the way aerodromes overcome the operational challenges



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- AGA Divisional Meeting 1981 concerning future development of Annex 14
 - “A view was expressed that Annex 14 contained two distinct types of material, one concerning planning and design of aerodromes and the other concerning aerodrome operation and services, which should be separated. This view was supported by at least one State which indicated that in its national regs it separated Annex 14 material along these very lines. The Secretariat had also noted that in recent ..

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.. years more interest was being shown in subjects that might be considered related to the operation of aerodromes. This, it thought, was due in part to the advent of larger aeroplanes and operations in lower visibility conditions both of which placed greater requirements on the quality of the facilities and services provided at an aerodrome.

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The meeting agreed that a recommendation should be formulated calling for a study of how the material in Annex 14 might most effectively be published including the development of a possible new document devoted to aerodrome operational issues.”

(AGA Divisional meeting 1981)

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- AN Min 180-7 :
 - States developed procedures to work around physical constraints to allow safe operation of acft
 - A14V1 provisions prescriptive in nature
 - Airport physical characteristics vs airport operations
 - Phased approach suggested – urgent matters first, then subjects on which material already existed or easily developed

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- AN Min 180-7 (cont'd):
 - Airport compatibility (previously called “operational procedures at existing aerodromes”) issues considered urgent
 - Given wide range of aerodromes, defined procedures applicable to all airports would be rare but development of basic principles would be possible
 - Substantial comments on TOC; risk assessment & aeronautical studies high priority, runway safety programme, integration of SMS

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- AN Min 180-7 (cont'd):
ANC, inter alia,
 - ***noted*** feasibility study
 - ***agreed*** PANS-AGA be developed, taking into account concerns raised by Commissioners
 - ***agreed*** on a phased approach (to allow for a methodical, chapter-by-chapter progression focusing on critical items first.)

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- 10 July 2009: State letter invitation to 18 States & 6 Int'l Orgs
- PASG established: 11 States & 6 Int'l Orgs
- Rapporteur PASG : UKCAA
- Specific Terms of Reference

TERMS OF REFERENCE



To undertake specific studies in the field of aerodrome operational management with an aim to developing global aerodrome operational procedures to enhance aerodrome safety and efficiency. Such **procedures**, to be included in a PANS-Aerodromes document, should be taken into account by **aerodrome regulators** and **operators** during the initial certification and continuing safety monitoring.

The PANS-Aerodromes would be a living document with new contents to be added as operational issues arise. The first edition would focus on **high-priority issues** such as operational procedures at existing aerodromes, as well as other operational management issues.

EXISTING ICAO PANS



- Doc 4444 PANS-ATM:
(contains procedures on, *inter alia*, States' responsibilities on the provision of ATS)
- Doc 8168 PANS OPS Vol II:
“... provides the basic guidelines to States, and those operators and organizations producing instrument flight charts”
- Doc 9868 PANS TRAINING:
(...contains procedures for, *inter alia*, Licensing Authorities)

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- Four meetings of PASG (2009 – 2011)
- Informal briefing to ANC on 6 Dec 2010

PASG/1

- 12 Discussion Papers
- Established Subgroups
 - Chapter 2 Aerodrome Certification
 - Chapter 3 Safety Assessment
 - Chapter 4 Aerodrome Compatibility

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PASG/1 (cont'd)

- Fundamentals of PANS (Doc 8143)
- Review of existing ICAO PANS
- Concerns
 - Not a panacea for resolving deficiencies in sub-standard aerodromes
 - Complements, not conflict with, A14V1

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PASG/2

- 6 Discussion Papers
- Review of Subgroups' work
- Separating day-to-day operational management issues from those identified in the safety oversight audits
- Finalised TOC and phaseology

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PASG/2 (cont'd)

- Phase 1
 - Chapter 2 : Aerodrome Certification (DGAC France)
 - Chapter 3 : Safety Assessment (ICCAIA)
 - Chapter 4 : Aerodrome Compatibility (Germany)
- Phase 2
 - Chapter 5 : Aerodrome Operational Management

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PASG/3

- Continue progress of work
- Editorial style and content review

PASG/4

- Finalise draft 1st Edition
- Finalised proposed amendment to A14V1, after coordination with AP-WG/WHL-7

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- Important message proposed in amendment to A14V1 safeguarding primacy of Annex
 - Complements, not conflict with, A14V1
 - Not a panacea for resolving deficiencies in sub-standard aerodromes
- Repeated in the FOREWORD and appropriate sections in the PANS-Aerodromes

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A14V1 New Section 1.8 Introductory Note (proposed):

“This section introduces Procedures for Air Navigation Services (PANS)–Aerodromes (Doc 9981) for the use of aerodromes undertaking an assessment of its compatibility for the type of traffic or operation the aerodrome is intending to accommodate. The material in the PANS-Aerodromes addresses operational issues faced by existing aerodromes and provides the necessary procedures to ensure the continued safety of operations. Where alternative measures, operational procedures and operating restrictions have been developed, these should be reviewed periodically to assess their continued validity. The PANS-Aerodromes is not intended to substitute nor circumvent the provisions contained in this Annex. It is expected that new infrastructure on an existing aerodrome or a new aerodrome will fully comply with the requirements in this Annex..”

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PASG/5

- Work on 2nd Edition containing Chapter 5 : day-to-day aerodrome operational matters
- Related issues
 - Future work on restructuring of A14V1
 - Approved work programme arising from AP/2
 - ANC-approved job cards

STRATEGIC VISION OF ANNEX 14 vis-à-vis PANS-Aerodromes



- A14VI to remain essentially a design document
- Detailed operational SARPs to be migrated to PANS-Aerodromes with new high-level operational SARPs developed as “anchor” SARPs in A14VI
- Wider use of risk/performance-based concepts in development of A14VI

STRATEGIC VISION OF ANNEX 14 vis-à-vis PANS-Aerodromes



- Some on-going work already utilising risk/performance-based approach (eg. taxiway separation distances, emergency response and RFF)
- 1st Edition PANS-Aerodromes to be transmitted to States/intl orgs for consultation
- If necessary, new work programme on restructuring of A14VI required
- 2nd Edition PANS-Aerodromes in parallel with restructuring of A14VI



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Thank You