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55th DGCA Conference of Asia & Pacific Regions

Beijing Declaration Commitment on Certification of Aerodromes

Nadi, Fiji

24 October 2018



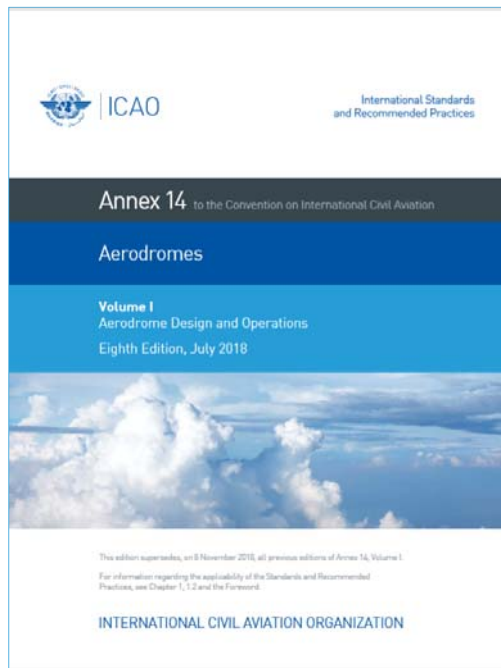


Outlines

- 1) ICAO Annex 14 Requirements on Certification of Aerodromes
- 2) USOAP EI in AGA
- 3) Status of Aerodrome Certification in APAC Region
- 4) Beijing Declaration Commitment
- 5) Survey on Aerodrome Certification
- 6) Key Challenges
- 7) Way Forward



ICAO Annex 14, Volume I Requirements on Certification of Aerodromes

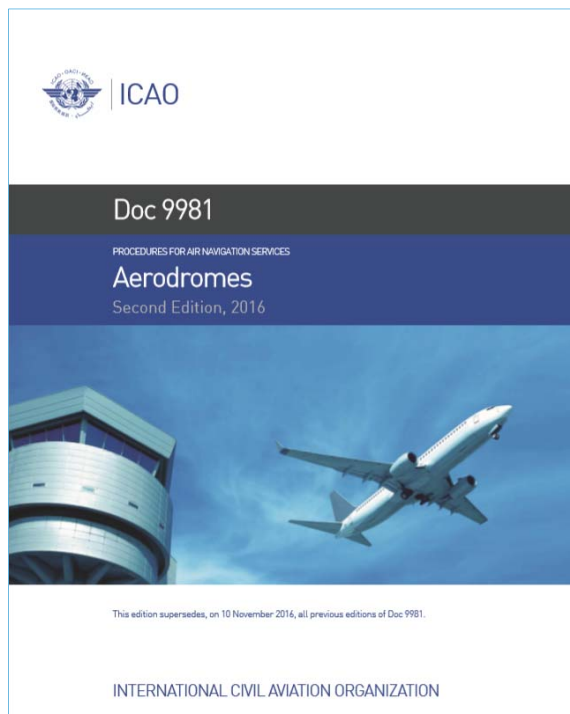


1.4.1 States shall certify aerodromes **used for international operations** in accordance with the specifications contained in Annex 14 as well as other relevant ICAO specifications through an appropriate regulatory framework.

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



Doc. 9981 PANS-Aerodromes



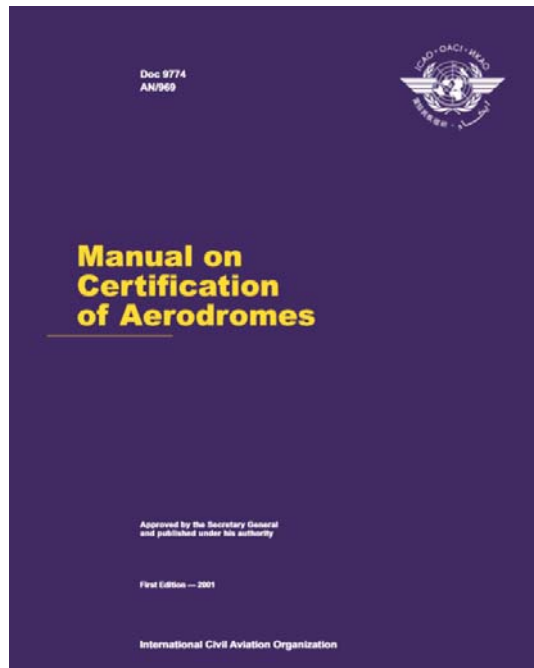
PART I :

- Certification of Aerodrome,
 - Aerodrome Manual (AM)
 - Initial Certification
 - Continuous safety oversight
- Safety Assessments for Aerodromes
- Aerodrome Compatibility

Part II – Aerodrome Operational Procedures



Doc. 9974 – Manual on Certification of Aerodromes



- Aerodrome certification model regulations
- The aerodrome certification procedures
- Model Organization Structure (DASS) and Functions of DASS
 - Sample Application Form, Aerodrome Certificate
 - Particulars to be included in AM



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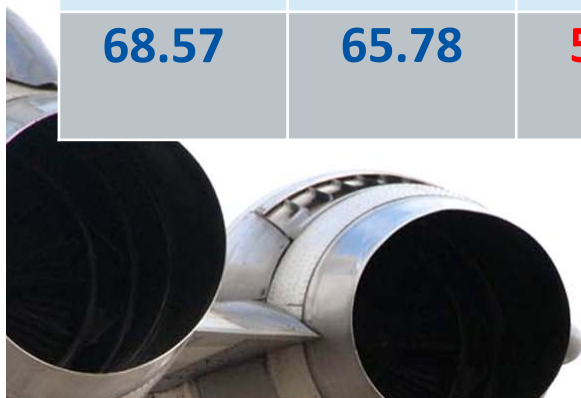


USOAP AGA EI in APAC Region

[iSTARS 2.0 SPACE, 9 June 2018]

Critical Elements (CE)

CE-1	CE-2	CE-3	CE-4	CE-5	CE-6	CE-7	CE-8
68.57	65.78	55.71	38.18	49.60	60.45	53.01	51.13



APAC Average AGA EI = 57.87 %

Global Average AGA EI = 59.5%



ICAO USOAP EI in Aerodrome Certification related PQs (PQ 8.005; 8.031; 8.081; 8.083 & 8.086) as of 17 October 2018

Average EI in RASG-APAC (%)	North Asia (7 States including 2 SARs)	South East Asia (11 States)	South Asia (8 States)	Pacific (19 States including 4 OT)
60.57	74.28	61.21	68.57	41.66



ICAO USOAP results in Aerodrome Certification related PQs (PQ 8.005; 8.031; 8.081; 8.083 & 8.086)

Average EI of selected PQs(5) for RASG-APAC: 60.57%

- Legislation/Regulation
- Organization Structure
- Regulation with criteria for certification
- Process for certification
- Implementation of the Certification requirement

[View Test results by State](#)

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Number	Question	CE	AREA	EI (%)	Satisfactory	Unsatisfactory	Applicability (%)	Toggle
8.005	Has the State promulgated legislation/regulations for the certification of aerodromes?	CE-2	AGA	85.71	30	5	100	<input checked="" type="checkbox"/>
8.031	Has the State established an organizational structure, e.g. a Directorate of Aerodromes Safety and Standards (DASS), for airport certification and surveillance activities?	CE-3	AGA	68.57	24	11	100	<input checked="" type="checkbox"/>
8.081	Has the State promulgated regulations detailing the requirements for the certification of aerodromes and including the criteria to determine if an aerodrome should be certified?	CE-2	AGA	68.57	24	11	100	<input checked="" type="checkbox"/>
8.083	Has the State established a process for the certification of aerodromes?	CE-5	AGA	60	21	14	100	<input checked="" type="checkbox"/>
8.086	Does the aerodrome regulatory authority fully implement the certification requirements?	CE-6	AGA	20	1	4	100	<input checked="" type="checkbox"/>

Showing 1 to 5 of 5 entries (filtered from 1,047 total entries)



Status of Certified Aerodromes in APAC Sub Regions

Aerodromes	North Asia (7 States including 2 SARs)	South East Asia (11 States)	South Asia (8 States)	Pacific (19 States including 4 OT)
Total International Aerodromes	98	84	48	51
Certificated International Aerodromes	98	62	40	36
International Aerodromes to be certified by 2020	0 (0 States)	22 (6 States)	8 (3 States)	15 (7 States)



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Beijing Declaration Commitment

Certify all aerodromes used for international operations by 2020.





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Survey on Aerodrome Certification [ICAO State Letter to States]

To meet the 2020 target of the *Beijing Declaration*:

- List of aerodromes yet to be certified;
- State's action plan on certification of aerodromes;
and
- Assistance required from ICAO or other entities.



Response from States

- State timeline for certification of aerodromes: 2020 to 2022
- Assistance requested:
 - Training on aerodrome Certification, PANS-Aerodromes (Doc. 9981), Safety Management (Doc. 9859)
 - Technical exchange on aerodrome certification with the State with experience in this area
 - Compliance to ICAO on areas with LEI (AGA, CNS & ATM) from Advanced States and Industries
 - Assistance from ICAO and COSCAP AGA Experts



Capacity Building Programme for Asia Pacific States

- ❖ ICAO/ACI Aerodrome Certification Course - ICAO APAC Office, ***Bangkok from 19 to 23 November 2018***
- ❖ ICAO Aerodrome Certification incorporating PANS-Aerodromes Workshop will be conducted in ***Nadi, Fiji, from 3 to 7 December 2018*** for Asia & Pacific States.



Key Challenges

- Legislation & Regulations
- Recruitment and retention of qualified & experienced inspectorate staff in CAA
- Maturity of “Regulator” and “Service Provider” to manage and implement change
- Experience and confidence on the acceptance of safety assessments/aeronautical studies for accepting non-compliances
- Assessment of the Aerodrome operator’s safety management system



Key Challenges

- Tools for Inspectors for initial certification and continuous surveillance, i.e., Aerodrome Inspector's Handbook and Safety Oversight Manual
- Airport Physical Changes (Cost/Time) required for assessing compliance (eg. Design, managing airfield works safety, impact on RFFS emergency response)
- Aerodromes used for International operations - Establishing an accurate data (Baseline)



Routes to Sustainability – Technical Assistance

Initiative	Description	Supporters
APAC CAT, IPAV	Technical Assistance in ICAO USOAP/CMA in AGA (PQs & Corrective Action Plans)	ICAO (APAC & TCB), COSCAPs, PASO
Regional TC Programme	Activities to support Aerodrome Certification	COSCAPs, PASO, EU SA & SEA
ACI Airport Excellence in Safety Programme (APEX)	ICAO/ACI APEX Programmes in pursuit of promoting safer airport operations and cooperation between ICAO, aviation stakeholders and airports worldwide	ICAO, ACI and ACI Members



Routes to Sustainability – Regulatory Capacity Building Initiatives

	Description	Supporters
CAA Capacity Building	Gap analysis of CAA Aerodrome Oversight capabilities across Critical Elements leading to support on Legislation, Regulations, Requirements, Manuals and Procedures, Checklists, Resourcing, Recruitment of staff, Training and Safety Management (SMS).	COSCAPs, PASO, APAC Champion States, Advisory Support (e.g. UK CAA; US FAA, DGAC France & Others)
Training (Theoretical Classroom and OJT)	<ul style="list-style-type: none">▪ Aerodrome Certification/Inspection/Operations,▪ Audit Techniques,▪ SMS and its assessment for Effectiveness▪ OJT through Certification of International Aerodrome or Assurance Review in Host APAC Country	ICAO GAT, IOs (ACI), TRAINAIR Members, Advisory support (e.g. EASA, UK CAA; US FAA, DGAC France & Others)



Way Forward

To overcome the challenges being faced by States and meet the 2020 target of the Beijing Declaration commitment for certification of international aerodromes:

- Strong commitment from States Regulatory Authority and Aerodrome Operators to provide necessary resources; and
- Cooperation from all Regional Technical Cooperation Programmes, relevant International Organizations and Champion States



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