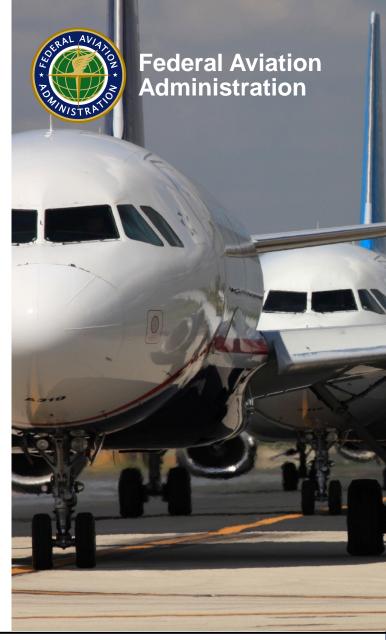
ICAO/FAA Aviation Workshop

Issuing & Maintaining Aerodrome Certification

Location: Trinidad and Tobago

Presented by: FAA, Southern Region

Date: October 2017





Objectives

- Identify the need for aerodrome certification.
- Discuss ICAO and U.S. guidance associated with aerodrome certification.
- Determine the requirements of a aerodrome certification programme.
- Review the process of aerodrome certification.



International Standards and Recommended Practices



Annex 14
to the Convention on
International Civil Aviation

Aerodromes

Volume I

Aerodrome Design and Operations

This edition incorporates all amendments adopted by the Council prior to 5 March 2009 and supersedes, on 19 November 2009, all previous editions of Annex 14, Volume I.

For information regarding the applicability of Standards and Recommended Practices, see Chapter 1, 1.2 and Foreword.

Fifth Edition July 2009

International Civil Aviation Organization

Annex 14 — Aerodromes Volume I

1.4 Certification of aerodromes

Note.— The intent of these specifications is to ensure the establishment of a regulatory regime so that compliance with the specifications in this Annex can be effectively enforced. It is recognized that the methods of ownership, operation and surveillance of aerodromes differ among States. The most effective and transparent means of ensuring compliance with applicable specifications is the availability of a separate safety oversight entity and a well-defined safety oversight mechanism with support of appropriate legislation to be able to carry out the function of safety regulation of aerodromes. 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 certification, 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. Information on the status of certification of aerodromes would need to be provided to the appropriate aeronautical information services for promulgation in the Aeronautical Information Publication (AIP). See 2.13.1 and Annex 15, Appendix 1, AD 1.5.

- 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.
- 1.4.2 **Recommendation.**—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.
- 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).
- 1.4.4 As part of the certification process, States shall ensure that an aerodrome manual which will include all pertinent information on the aerodrome site, facilities, services, equipment, operating procedures, organization and management including a safety management system, is submitted by the applicant for approval/acceptance prior to granting the aerodrome certificate.

Note.— The intent of a safety management system is to have in place an organized and orderly approach in the management of aerodrome safety by the aerodrome operator. Guidance on an aerodrome safety management system is given in the Safety Management Manual (SMM) (Doc 9859) and in the Manual on Certification of Aerodromes (Doc 9774).

1.5 Safety management

1.5.1 States shall establish a State safety programme in order to achieve an acceptable level of safety in civil aviation.

Note.— A framework for the implementation and maintenance of a State safety programme is contained in Attachment C, and guidance on a State safety programme is contained in the Safety Management Manual (SMM) (Doc 9859).





Federal Aviation Administration

Federal Aviation Regulations

Part 139 – Certification of Airports





Why certificate aerodromes?



Why Aerodrome Certification?

- Ownership and management of aerodromes differs throughout the world.
- Standardization of procedures and technical aerodrome elements is critical.
- Certification facilitates standardization.
- Certification and standardization enhance safety.



ICAO Documents Regarding Aerodrome Certification

- Annex 14, Volume I, Aerodrome Design and Operations
- ICAO Document 9774, Manual on Certification of Aerodromes
- ICAO Document 9859, Safety Management



Annex 14 — Aerodromes Volume I

1.4 Certification of aerodromes

Note.— The intent of these specifications is to ensure the establishment of a regulatory regime so that compliance with the specifications in this Annex can be effectively enforced. It is recognized that the methods of ownership, operation and surveillance of aerodromes differ among States. The most effective and transparent means of ensuring compliance with applicable specifications is the availability of a separate safety oversight entity and a well-defined safety oversight mechanism with support of appropriate legislation to be able to carry out the function of safety regulation of aerodromes. 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. Information on the status of certification of aerodromes would need to be provided to the appropriate aeronautical information services for promulgation in the Aeronautical Information Publication (AIP). See 2.13.1 and Annex 15, Appendix 1, AD 1.5.

- 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.
- 1.4.2 **Recommendation.** 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.
- 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).
- 1.4.4 As part of the certification process, States shall ensure that an aerodrome manual which will include all pertinent information on the aerodrome site, facilities, services, equipment, operating procedures, organization and management including a safety management system, is submitted by the applicant for approval/acceptance prior to granting the aerodrome certificate.
- Note.— The intent of a safety management system is to have in place an organized and orderly approach in the management of aerodrome safety by the aerodrome operator. Guidance on an aerodrome safety management system is given in the Safety Management Manual (SMM) (Doc 9859) and in the Manual on Certification of Aerodromes (Doc 9774).



Convention: Article 15

- Requires that all aerodromes open to public use, under the jurisdiction of the country, provide access and uniform conditions for aircraft of all other contracting states.
- How do you do that?
- Through the Aerodrome Certification





Annex 14 Requirements



- Applicable 2001, effective, 27NOV03, Annex 14, 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."



Annex 14, Volume I

- Certification of Aerodromes:
- Applicable since 2001 for aerodromes open to public use;
- Requirements for certification of aerodromes used for international operations;
- Submission of an aerodrome manual and safety management systems (SMS)
- Certification criteria; basis for;
 - Aerodrome operational safety, adequacy of facilities and services assurance;
 - Adequately trained aerodrome inspectors.



As part of the certification process, States shall ensure that an aerodrome manual which will include all pertinent information on the aerodrome site, facilities, services, equipment, operating procedures, organization and management including a SMS, is submitted...





Aerodrome Certification: Initial Requirements

- Promulgation of basic aviation law
- Establish a State entity responsible for aviation (normally the CAA), having the authority to ensure compliance with established regulations
- Adopt aerodrome certification requirements and regulations regarding such actions.
- Develop and promulgate CAA regulations.
 - Certification requirements.
 - Procedures, criteria and technical specifications.
 - Guidance material



<u>Aerodrome Certification Requirements:</u> <u>Continued</u>

- Develop CAA sub-element (Directorate of Aerodrome Standards and Safety, DASS) charged with responsibility for:
 - Evaluating DASS staffing requirements.
 - Developing technical tools for DASS staff (procedural guidance)
 - Aerodrome certification
 - Processing and evaluating LOIs
 - Evaluating and approving aerodrome manuals
 - Monitoring
 - Examining and evaluating any risk analysis submitted
 - Reviewing aerodrome SMS programmes.
 - Compliance.
 - Dealing with exemption requests



<u>Aerodrome Certification</u> <u>Requirements: Continued</u>

- Establish procedures for:

- Application for grant of a certificate.
- Assessment of aerodrome application
- Granting and issuance of certificate
- Duration of certificate
- Exemption procedures
- Transfer and amendment of certificate
- Obligations under the certificate
- Cancellation or surrender of the certificate



Application: Examples

+	APPLICATION FOR CERTIFIC	CATE		FAA USE (ONLY
	US Department of Transportation	tificate		Site Numbe	r
	Federal Aviation Administration Time-Limited Airport	Operating Certifica	te		
ŀ	Complete all sections of the form as indicated. Submit original and thr			copies of the Airport C	ertification Manual
-	to the headquarters of the appropriate FAA Regional Office.				
-	Type of Submission (Check One)				
	☐ Original ☐ Amendment ☐ Exemption				
	A. Location of Airport				
	1. Name of Airport	2. Address (Num	iber, Street,	, P.O. Box)	
t	3. City	4. County		5. State	6. Zip Code
ŀ	6a. Latitude 6b. Longitude	Airport is:			·
	• , , ,	 a. State Lice b. State Insp 		☐ Yes ☐ No ☐ Yes ☐ No	
	B. Ownership				
t	1. Municipality State Military		2. Airpo:	rt is Civil	
	☐ Corporation ☐ County ☐ Other (Explain)			☐ Mil/Çix Jo	int Use
	☐ Port Authority ☐ Airport Authority			☐ Shared Use	•
Ī	3. Name of Owner	4. Name of Mans	ager/Operat	tor	
ł	Number/Street/P.O. Box	Number/Stree	t/P.O. Box		
Ì	City County State Zip	City		County St	ate Zip
Ī	C. Operative Data	•			
	1. Certificate Applied For:	Fire Fighting equipment is liste		(Check Current Index	and ensure
	□ Class I □ Class II □ Class IV		□С		1E
ŀ	3. Air Carriers Currently Served (UA, DL, CO, AA, etc.)	A B		ently Served (737, DC	
İ	5. ARFF Exemption Applied For:	6. Other exempti	ons applied	for:	
	☐ Yes ☐ No				
	D. Remarks				
	E. Certification This application, including the Airport Certification Manual, is submit Airport Operating Certificate. I certify, under penalty of 18 U.S. Code,	ted in order to obtain Section 1001 and o	n an Airpor ther applica	rt Operating Certificate able provisions of law	e or Time-Limited , that the statements
-	and information in the application form and manual are complete and to Applicant Signature	ue to the best of my Applicant Addres			
ŀ	Applicant Name (typed)	City			





*	Transport	Transports
Ŧ	Canada	Canada

AIR OPERATOR CERTIFICATE APPLICATION AIRPORT - AERODROME

DEMANDE DE CERȚIFICAT D'EXPLOITATION AERIENNE AEROPORT - AERODROME

File no Dossler n* 5258 -	
5260 -	

AIRPORT - AERODRO	ME	AEROPORT -	AERODROME	
Name of Air Operator - Nom de l'exploita	nt aérien	Address - Adresse		
2. (a) Airport/Aerodrome - Aéroport/Aérodro	ome (Name and Geographic Coor	rdinates - Toponyme et les o	oordonnées géographiq	ues) - Identifier/Identificateur
Aerodrome registered Yes No No		Irport - Aéroport	Public Private	□ Joúr □ NúÎt □ VFR □
Reg. No. Dated N° Enr. Date	Dated Date	i	Land Terre ferme	Water Ice Hell Plan d'eau ISur glace Hell
(b) Name of aerodrome or airport operal		drome ou de l'aéroport	Te	elephone No N° de téléphone
(c) Air operator telephone, radio or other Téléphone, radio ou autres moyens o		aérien	(d) Ali	r traffic control - Contrôle de la circulation aérien Yes No
(e) Navigational and landing aids - Aides	à la navigation et aux atterrissag	es		
ILS NDB	VOR PAR	ASR	MLS	Hrs of operation - Heures d'exploitation To A
(f)	AERODROME EMERGENCY	SERVICES - SERVICES D'U	IRGENCE D'AÉRODRO	OME
(g) Uncertified or unregistered aerodrom Aerodrome non certifié ou enregistré			LAT. & LONG.)	
Facilities available at this airport/aerodro installation disponibles à cet aéroport/aé (a) Communications	rodrome 1) Forec	orological - Météorologie cast - Prévision res No Dul Non	DOT weather seq Le rapport météo	ontains ail essential information normally found i quence rologique contient tous les détails essentiels lus dans le builetin météorologique du M.D.T.
(a) Communications	2) Weat	her Report - Bulletin Yes No Dul Non	Yes Oul	No Non
(d) First Ald - Équipement de premiers s		r accommodation - Héberger		(f) Hangar
(g) Refuelling facilities - Ravitalliement	l.	(h) Available surface trans	sportation - Transport de	e surface disponible
4. Base Main Principale Sub-Secondaire	Scheduled - Points - Régullers Airport Aerodro Base		Type of operation - Day Jour	Type d'expioitation Night VFR IFR
5 (a) Aircraft types - Type(s) d'aéronef(s)	(b) Aircraft of 65,000 lbs. (MCT Aéronef dont la MMHD est é	OW) and over Egale ou supérieure à 65,000		valuation required e l'état de surface exigée No Non
6. I hereby certify that the above infor	mation is correct - Je certifie	par la présente l'exactitu	de des renseigneme	ents fournis ci-dessus.
Date (Y-A - M - D-J)	Si of person duly authorized to execute of a personne düment autorisée à exécute	gnature this application on behalf of the a	sir operator)	Title - Titre
FOR DEPAR	RTMENT OF TRANSPOR	T USE - À L'USAGE		ES TRANSPORTS
7. Aerodrome Safety - Comments - Secur	ité des aérodromes - Observation	15		
I hereby certity that the information sp section 2.	ecified herein is correct as lis	sted in Je certifie po corrects cor	ar la présente que le nme indiqués dans l'	es renseignements fournis ci-dessus sont l'article 2.
Date (Y-A - M - D-J)		Aerodrome Safe	ety - Sécurité des aérod	iromes .
I hereby certify that the facilities list type(s) of aircraft and operation list		ory for the Je certifie po conviennent articles 4 et	tau(x) type(s) d'aéro	es installations indiquées dans l'article 3 onefs et opération indiquées dans les
Date (Y-A - M - D-J)		Commercial and Business A	viation - Aviation comm	nerciale et d'affaires
26-0045 (0205-02)		INSTRUCTIONS		C 1

(see back - au verso)





Regulator's Responsibilities

- Responsibility for safety and order at all aerodromes open for public use rests with each state.
- However, certification may not be applied at all aerodromes under it's jurisdiction...each state decides at which aerodromes certification requirements apply.
- When determining certification requirements...remember, Annex 14 says that all aerodromes used for international operations shall be certified.



Regulators Duties and Responsibilities

- Initial inspection by the regulatory authority
- Periodic inspections by the regulatory authority
- Aerodrome Manual
- Aerodrome compliance with standards and practices
- Competence and training of aerodrome staff
- Aerodrome operation and maintenance
- Aerodrome Safety Management System
- Notification and reporting



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.3.2 Before granting an aerodrome certificate, the CAA must be satisfied that:

- c) the aerodrome facilities, services and equipment are in accordance with the standards and practices specified by the State;
- d) the aerodrome operating procedures make satisfactory provision for the safety of aircraft; and
- e) an acceptable safety management



CAA Approval Letter: Example

CAAP 89ZA-1 (0) - Aerodrome safety inspection and report

7

Attachment 1

SUGGESTED FORMAT FOR AERODROME SAFETY INSPECTION REPORT

1	Certification
I have	carried out a safety inspection of
for the	e year on
I meet	t the requirements of Part 1 (a) \square , (b) \square or (c) \square of Schedule 11. (please indicate as table)
Civil A	erodrome safety inspection was conducted in accordance with the requirements set by the Aviation Authority. The safety inspection procedure included an examination of evidence led in the course of the year and documented in the reports listed below.
The o	pinion expressed in this report has been formed on the above basis.
indica	by certify that to the best of my knowledge, and conditional upon rectification of any ted deficiencies, the published aerodrome data is correct and that the aerodrome operating dures and aerodrome facilities and equipment meet the applicable safety standards.
	uture of Aerodrome Safety Inspector)
	Name of Aerodrome Safety Inspector)
(Date)	



CAO Doc 9774, Manual on Certification of Aerodromes

3B.5 Duration of an aerodrome certificate

 An aerodrome certificate shall remain in force until it is suspended or cancelled or, alternatively, an aerodrome certificate shall be valid for years or until it is suspended or cancelled, whichever is earlier.



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.4 Endorsement of conditions on an aerodrome certificate

• After successful completion of the processing of the application and the inspection of the aerodrome, the CAA, when granting the aerodrome certificate, will endorse the conditions for the type of use of the aerodrome and other details as shown in Appendix 4.



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.6 Surrender of an aerodrome certificate

- 3B.6.1 An aerodrome certificate holder must give the CAA not less than days' written notice of the date on which the certificate is to be surrendered in order that suitable promulgation action can be taken.
- 3B.6.2 The CAA will cancel the certificate on the date specified in the notice.



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.8 Interim aerodrome certificate

• 3B.8.1 The CAA may issue an interim aerodrome certificate to the applicant referred to in regulation 3B.2 or the proposed transferee of an aerodrome certificate referred to In regulation 3B.7.1 authorizing the applicant or transferee to operate an aerodrome if the CAA is



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.8 Interim aerodrome certificate

- 3B.8.1 a) an aerodrome certificate in respect of the aerodrome will be issued to the applicant or transferred to the transferee as soon as the application procedure for the grant or transfer of an aerodrome certificate has been completed; and
- b) the grant of the interim certificate is in the public interest and is not detrimental to aviation safety.



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.9 Amendment of an aerodrome certificate

The CAA may, provided that the requirements of regulations 3B.3.2, 3C.5, and 3C.6 have been met, amend an aerodrome certificate when:

- a) there is a change in the ownership or management of the aerodrome;
- •b) there is a change in the use or operation of the aerodrome;



ICAO Doc 9774, Manual on Certification of Aerodromes

3B.9 Amendment of an aerodrome certificate

The CAA may, provided that the requirements of regulations 3B.3.2, 3C.5, and 3C.6 have been met, amend an aerodrome certificate when:

- c) there is a change in the boundaries of the aerodrome; or
- d) the holder of the aerodrome certificate requests an amendment.



CIVIL	AVIATION AIRPORT CERTIFICATE
	CERTIFICATE NO.
	NAME OF AIRPORT
	LATITUDE/LONGITUDE
This airport certificate is issued	d by the Minister pursuant to Part III of the Canadian Aviation Regulations
Operations Manual to operate The Minister may suspend or o	autics Act and authorizes the operator named in the approved Airport
Operations Manual to operate The Minister may suspend or comply with the provisions set This certificate is subject to an	autics Act and authorizes the operator named in the approved Airport this airport. cancel this airport certificate at any time where the airport operator fails to
Operations Manual to operate The Minister may suspend or o comply with the provisions set This certificate is subject to an the Regulations and set out in	autics Act and authorizes the operator named in the approved Airport this airport. cancel this airport certificate at any time where the airport operator fails to forth in the Act, the Regulations or for other grounds as set out in the Act. ny conditions established by the Minister pursuant to Section 302.03(3) of
Operations Manual to operate The Minister may suspend or ocomply with the provisions set This certificate is subject to an the Regulations and set out in This airport certificate is not	autics Act and authorizes the operator named in the approved Airport this airport. cancel this airport certificate at any time where the airport operator fails to forth in the Act, the Regulations or for other grounds as set out in the Act. ny conditions established by the Minister pursuant to Section 302.03(3) of the approved Airport Operations Manual.
Operations Manual to operate The Minister may suspend or comply with the provisions set This certificate is subject to an the Regulations and set out in This airport certificate is not	autics Act and authorizes the operator named in the approved Airport this airport. cancel this airport certificate at any time where the airport operator fails to forth in the Act, the Regulations or for other grounds as set out in the Act. ny conditions established by the Minister pursuant to Section 302.03(3) of the approved Airport Operations Manual.



U.S. Department of Transportation

Federal Aviation Administration





AIRPORT OPERATING CERTIFICATE

This certifies that (Airport Owner/Operator) as owner and operator of (Airport Name, City, State)

has met the requirements of the Title 49 USC, Subtitle VII – Aviation Program, and the rules, regulations, and standards prescribed thereunder for the issuance of this certificate, and is hereby authorized to operate as a certificated airport in accordance with and subject to said statute and the rules, regulations, and standards prescribed thereunder, including but not limited to 14 CFR Part 139, and any additional terms, conditions, and limitations contained herein or in the approved Airport Certification Manual on file with the Federal Aviation Administration.

This certificate is not transferable and, unless sooner surrendered, suspended or revoked, shall continue in effect.

By Direction of the Administrator

Effective Date:

Reissue Date: Issued at:

Manager, Airports Division



The basis for US airport certification is:

- Federal Aviation Act of 1958
- Airport Certification Program established 1973
- 14 Code of Federal Regulations (CFR) part 139



FAA Order 5280.5C:

Is the handbook for Airport Certification Safety Inspectors (ACSI) in conjunction with 14 CFR part 139 and is used:

- To assist ACSIs as they direct airports to establish and maintain programs for enhancing and improving airport safety for the benefit of the community;
- To provide accurate guidance to ACSIs administering the program; and
- To ensure standardized application of program procedures and practices among the regional offices.



Section 139.1, Applicability

The certification requirement is applicable to all airports in every State of the United States, the District of Columbia, and any territory or possession of the United States at which passenger operations of the following types occur:

- (1). Scheduled operations by small aircraft designed for 10 to 30 seats (except for the State of Alaska).
- (2). Scheduled operations by large aircraft designed for 31 or more seats.
- (3). Unscheduled operations by large aircraft designed for 31 or more seats



139.101 General Requirements.

The airport operator of an airport identified in Section 139.1 must—

- a. Obtain an Airport Operating Certificate (AOC)
 appropriate to the level of service provided at the airport
 and
- **b.** Comply with the applicable requirements of Part 139, the AOC, and the Airport Certification Manual (ACM).



139.103 Application for certificate.

Each applicant for an Airport Operating Certificate must—

- (a) Prepare and submit an application, in a form and in the manner prescribed by the Administrator, to the Regional Airports Division Manager.
- (b) Submit with the application, two copies of an Airport Certification Manual prepared in accordance with subpart C of this part.



139.105 Inspection authority.

Each applicant for, or holder of, an Airport Operating Certificate must allow the Administrator to make any inspections, including unannounced inspections, or tests to determine compliance with 49 U.S.C. 44706 and the requirements of this part.



139.107 Issuance of certificate.

- An applicant for an Airport Operating Certificate is entitled to a certificate if—
- (a) The applicant provides written documentation that air carrier service will begin on a date certain.
- (b) The applicant meets the provisions of §139.103.
- (c) The Administrator, after investigation, finds the applicant is properly and adequately equipped and able to provide a safe airport operating environment in accordance with—



139.107 Issuance of certificate (Con't.)

An applicant for an Airport Operating Certificate is entitled to a certificate if—

- (1) Any limitation that the Administrator finds necessary to ensure safety in air transportation.
- (2) The requirements of the Airport Certification Manual, as specified under §139.203.
- (3) Any other provisions of this part that the Administrator finds necessary to ensure safety in air transportation.
- (d) The Administrator approves the Airport Certification Manual.



139.109 Duration of certificate.

An Airport Operating Certificate issued under this part is effective until the certificate holder surrenders it or the certificate is suspended or revoked by the Administrator.



Questions?

Warren Relaford
FAA Southern Region
Airports Division
404-305-6717
Warren.relaford@faa.gov

