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**CIVIL AVIATION (AERODROME CERTIFICATION)
REGULATIONS, 2016**

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S.I. 2016 No.

Civil Aviation Act

CAP. 288B

**CIVIL AVIATION (AERODROME CERTIFICATION)
REGULATIONS, 2016**

The Minister, in exercise of the powers conferred on him by section 10(1) (f) of the *Civil Aviation Act*, makes the following Regulations:

PART I

PRELIMINARY

Citation

1. These Regulations may be cited as the *Civil Aviation (Aerodrome Certification), 2016*.

Interpretation

2. In these Regulations,

“aerodrome” has the meaning assigned to it by section 2 of the Act;

“aerodrome certificate” means a certificate to operate an aerodrome which is issued by the Director pursuant to regulation 6;

“aerodrome manual” mean the Barbados Manual of Aerodrome Standards that forms part of the application for an aerodrome certificate pursuant to these Regulations, including any amendments that are accepted or approved by the Director;

“aerodrome operator” means a person who holds a certificate to operate an aerodrome;

- “aerodrome reference code” means a code used for planning purposes to classify an aerodrome with respect to the critical aeroplane characteristic for which the aerodrome is intended;
- “aerodrome reference point” means the designated geographic location of an aerodrome;
- “aerodrome register” means the register established and maintained under regulation 16;
- “aerodrome technical inspection” means an inspection of aerodrome facilities carried out to ensure that any deterioration that could make a facility unsafe for aircraft operations is identified and reported to the appropriate authority for correction;
- “Aeronautical Information Publication” or AIP means a publication issued by the Director that contains aeronautical information of a lasting character that is essential to air navigation;
- “apron” means a defined area on an aerodrome intended to accommodate aircraft for purposes of loading or unloading passengers, mail, cargo or fuel, or of aircraft parking or aircraft maintenance;
- “automatic aerodrome information service” means a service that provides current and routine information for aircraft arriving at or departing from an aerodrome by means of repetitive broadcasts on a discrete frequency;
- “aviation document” has the meaning assigned to it by section 2 of the Act;
- “certificated aerodrome” means an aerodrome whose operator has been granted an aerodrome certificate;
- “manoeuvring area” means that part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, but does not include an apron;
- “marker” means an object displayed above ground level in order to indicate an obstacle or delineate a boundary;

- “marking” means a symbol displayed on the surface of the movement area in order or convey aeronautical information;
- “maximum carrying capacity” means, in relation to an aircraft, the maximum passenger-seating capacity or the maximum payload permitted under the certificate of type approval for the aircraft;
- “maximum passenger-seating capacity” means, in relation to an aircraft, the maximum number of seats for passengers permitted under the certificate of type approval of the aircraft;
- “movement area” means that part of an aerodrome to be used for the take-off, landing and taxiing of aircraft consisting of the manoeuvring area and the apron;
- “non-controlled aerodrome” means an aerodrome at which an Air Traffic Control Service is not operating;
- “obstacle” means a temporary or permanently fixed and mobile object, or part thereof, that is located on an area intended for the surface movement of aircraft or that extends above a defined surface intended to protect aircraft in flight;
- “obstacle limitation surfaces” means a service of surfaces that define the volume of airspace at and around an aerodrome to be kept free of obstacles in order to permit the intended aeroplane operations to be conducted safely, and to prevent the aerodrome from becoming unusable by the growth of obstacles around the aerodrome;
- “runway” means a defined rectangular area of land at an aerodrome that is prepared for the landing and take-off of aircraft;
- “runway strip” means a defined area, including the runway and stopway where provided, that is intended to
- (a) reduce the risk of damage to aircraft running off a runway; and
 - (b) protect aircraft flying over it during take-off or landing operations;

“safety management systems” means a systematic approach to management safety, including the necessary organisational structure, accountabilities, policies and procedures;

“taxiway” means a defined path on a land aerodrome established for the taxiing of aircraft and intended to provide a link between one part of an aerodrome and another including

- (a) aircraft stand taxilane - a portion of an apron designated as a taxiway and intended to provide access to aircraft stands only;
- (b) apron taxiway - a portion of a taxiway system located on an apron and intended to provide a through taxi route across the apron;
- (c) rapid exit taxiway - a taxiway connected to a runway at an acute angle and designed to allow landing aeroplanes to turn off at higher speeds than are achieved on other exit taxiways thereby minimizing runway occupancy times;

“taxiway strip” means an area including a taxiway intended to protect an aircraft operating on a taxiway and to reduce the risk of damage to an aircraft accidentally running off the taxiway;

“time-limited works” means aerodrome works carried out where normal aircraft operations are not disrupted and the movement area can be restored to normal safety standards and any obstacles created by those works can be removed in not more than 30 minutes;

“unserviceable area” means a part of the movement area that is unfit and unavailable to use by aircraft;

“Visual Meteorological Conditions” or “VMC” means meteorological conditions, expressed in terms of visibility, distance from cloud and ceiling, that are equal to or better than specified minima;

“works area” means a part of an aerodrome in which maintenance or construction works are in progress.

PART II

GENERAL

Applicability of these Regulations

- 3.(1) These Regulations prescribe the requirement for
- (a) the operation of aerodromes;
 - (b) the certification of aerodromes and the requirements that apply to operators of certificated aerodromes;
 - (c) safety inspections of aerodromes;
 - (d) obstacles and hazards at aerodromes; and
 - (e) obligations of an aerodrome operator in relation to compliance with the Barbados Manual of Aerodrome Standards.
- (2) The provisions of Part I of the *Civil Aviation (General Application and Personnel Licensing) Regulations, 2007* (S.I. 2007 No. 172) with respect to the surrender, suspension or revocation of aviation documents apply to licences issued under these Regulations.
- (3) The applicable standards contained in the Barbados Manual of Aerodrome Standards approved by the Director provide the minimum standards for the operation of aerodromes in Barbados.

Requirement that aerodrome be certified

- 4.(1) A person shall not operate an aerodrome in Barbados unless the aerodrome is issued an aerodrome certificate by the Director.
- (2) Unless otherwise authorised by the Director, a person shall not operate an aircraft from any other location than a certificated aerodrome.

PART III

AERODROME CERTIFICATE

Application for an aerodrome certificate

5.(1) A person who wishes to apply for an aerodrome certificate to operate an aerodrome shall

- (a) apply to the Director in the prescribed form;
- (b) pay the prescribed fee; and
- (c) meet the requirements of these Regulations, the *Civil Aviation (Aviation Security) Regulations, 2007* (S.I. 2001 No. 176) and the aerodrome certification standards.

(2) An application made pursuant to paragraph (1) shall be accompanied by an aerodrome manual that applies to the aerodrome for which the application is made.

Issue of aerodrome certificate

6.(1) The Director may issue an aerodrome certificate to an applicant pursuant to regulation 5 where the Director is satisfied that

- (a) the facilities, services and equipment of the aerodrome conform with the applicable standards specified in the Barbados Manual of Aerodrome Standards, approved by the Director;
- (b) the operating procedures of the aerodrome make satisfactory provision for the safety of aircraft and air navigation;
- (c) the aerodrome is properly and adequately equipped for safe operations of commercial air transport;
- (d) the aerodrome is properly and adequately equipped for its maintenance;

- (e) the applicant has sufficient financial resources to conduct safe operations;
 - (f) an aerodrome manual, in accordance with Part IV, has been prepared for the aerodrome;
 - (g) the applicant and personnel to be employed at the aerodrome would have the necessary competence and experience to properly operate and maintain the aerodrome, should an aerodrome certificate be granted;
 - (h) an acceptable safety management system that complies with the *Civil Aviation (Safety Management Systems) Regulations, 2016* (S. I. 2016 No.) and the standards specified in the Barbados Manual of Aerodrome Standards approved by the Director, shall be in place at the aerodrome.
- (2) An aerodrome certificate granted pursuant to paragraph (1) shall be signed by the Director and shall contain
- (a) the certificate number specifically assigned to the airport by the Director;
 - (b) the name and reference point of the aerodrome;
 - (c) the date of issue; and
 - (d) the conditions of the approval.

Conditions for issue of aerodrome certificate

7. The Director shall not issue an aerodrome certificate under these Regulations

- (a) where the applicant
 - (i) does not meet the requirements of these Regulations;
 - (ii) has provided incomplete inaccurate, fraudulent or false information in applying for the aerodrome certificate;

- (iii) employs or proposes to employ a person in a management or supervisory capacity who
 - (A) had held an aviation document issued by the Director that was suspended or revoked within the previous 5 years by reason of criminal, fraudulent or improper action or insanity on the part of the applicant; or
 - (B) contributed materially to the suspension or revocation of an aviation document issued by the Director; or
- (b) where a person having substantial ownership or interest in the operations of the aerodrome has
 - (i) held the aviation document issued by the Director that was suspended or revoked within the previous 5 years by reason of criminal, fraudulent or improper action or insanity on the part of such a person; or
 - (ii) contributed materially to the suspension or revocation of an aviation document issued by the Director.

Notice of refusal to issue aerodrome certificate

8. Where the Director refuses to issue an aerodrome certificate to an applicant, the applicant shall be given written notice of the refusal and the reasons for such refusal, no later than 14 days after the Director refuses to issue the certificate.

Aerodrome certificate may be subject to conditions

9.(1) The Director may grant an aerodrome certificate subject to any condition that the Director considers necessary in the interest of the safety of aircraft an air navigation.

(2) Where the Director grants an aerodrome certificate subject to a condition, the applicant shall be given written notice of the reasons for the decision.

- (3) The condition referred to in paragraph (2) shall be set out in the aerodrome certificate or in the notice given to the applicant under that paragraph.
- (4) An aerodrome operator shall not contravene any condition contained in his aerodrome certificate.
- (5) It shall be a condition of an aerodrome certificate that
 - (a) an aerodrome operator shall comply with any directive given by the Director in respect of aerodrome operations;
 - (b) the Director shall have access to any place at any time to conduct tests or inspections of aerodrome facilities, equipment or operating procedures at the aerodrome for the purpose of ensuring the safety of aircraft.
- (6) The Director referred to in paragraph (5) shall
 - (a) give reasonable notice to the aerodrome operator of any tests to be conducted; and
 - (b) carry out the tests referred to in sub-paragraph (a) at a reasonable time.

Duration of aerodrome certificate

10. An aerodrome certificate issued under these Regulations shall be valid from the date of issue unless it is surrendered, suspended or revoked.

Suspension or revocation of an aerodrome certificate

11.(1) In addition to the provisions set out in Part II of the *Civil Aviation (General Application and Personnel Licensing) Regulations, 2007* (S.I. 2007 No. 172), the Director may give written notice to an aerodrome operator of the suspension or revocation of his aerodrome certificate where he believes there are reasonable grounds for believing that

- (a) a condition to which the certificate is subject has been breached;

- (b) the aerodrome facilities, equipment, operations or maintenance are not of the standard required in the interests of the safety of air navigation; or
 - (c) the holder of the certificate has failed to comply with regulation 9(5).
- (2) Before suspending or revoking an aerodrome certificate under paragraph (1), the aerodrome operator shall be given a notice which
 - (a) sets out the facts and circumstances that justify the suspension or revocation of that aerodrome certificate; and
 - (b) invites the aerodrome operator to show cause in writing, within a reasonable period stated in the notice, as to why that certificate should not be suspended or revoked.
- (3) The reasons given by the aerodrome operator referred to in paragraph (2) (b) shall be taken into consideration when making a decision to suspend or revoke his aerodrome certificate.
- (4) A suspension or revocation of an aerodrome certificate shall take effect from the date specified in the notice of suspension or revocation.

Surrender of aerodrome certificate

12. Where an aerodrome operator wishes to surrender his aerodrome certificate, he shall give the Director not less than 30 days written notice of the date on which he wishes to surrender his aerodrome certificate.

Aerodrome certificate not transferable

13. An aerodrome certificate is not transferable, and any purported transfer of an aerodrome certificate shall be void.

Temporary aerodrome certificate

14.(1) The Director may grant a temporary aerodrome certificate to an applicant in regulation 5 where

- (a) the application is for an aerodrome certificate to operator an aerodrome for which an existing aerodrome certificate is in force;
- (b) the holder of the existing aerodrome certificate has given the Director notice in regulation 12 for the surrender of the certificate;
- (c) the cancellation of the existing aerodrome certificate will have effect before the Director can fully consider the application of the applicant; and
- (d) the Director is satisfied that the applicant will be able to properly operate and maintain the aerodrome for the duration of the temporary aerodrome certificate.

(2) A temporary aerodrome certificate issued in accordance with paragraph (1) shall not be granted for a period exceeding 60 days.

Amendment of aerodrome certificate

15. The Director may amend an aerodrome certificate where the requirements of these Regulations have been met and

- (a) the holder of the aerodrome certificate requests an amendment;
- (b) there is a change in the ownership or management of the aerodrome;
- (c) there is a change in the use or operation of the aerodrome; or
- (d) there is a change in the boundaries of the aerodrome.

Aerodrome Register

16.(1) The Director shall cause a Register, to be known as the “Aerodrome Register”, to be kept.

- (2) The Register shall contain
- (a) the names of all aerodromes certified in accordance with these Regulations;
 - (b) the aerodrome reference points;
 - (c) the dates of the issue of the certificates;
 - (d) the aerodrome reference code; and
 - (e) the name and principal place of business of the relevant aerodrome operator.

PART IV

AERODROME MANUAL

Location of aerodrome manual

- 17.(1)** An aerodrome operator shall have an aerodrome manual in the form set out in regulation 19.
- (2) The aerodrome operator shall give the Director a printed copy of his aerodrome manual and keep a printed copy of this manual at his principal place of business and at the aerodrome.
- (3) The aerodrome operator shall make the copy of the aerodrome manual kept at his principal place of business and at the aerodrome available to authorised persons during normal business hours.
- (4) For the purpose of this regulation, “authorised person” means
- (a) the Director;
 - (b) the Inspectors;
 - (c) personnel from the International Civil Aviation Organisation, while performing audits;

- (d) personnel from States who have aircraft operating at the aerodrome.

Content of aerodrome manual

18.(1) An aerodrome manual referred to in regulation 17 shall include the following information applicable to the aerodrome:

- (a) general information about the aerodrome;
- (b) the particulars of the aerodrome site required to be reported to the Director;
- (c) the aerodrome operating procedures and safety measures;
- (d) details of the aerodrome administration and safety management system; and
- (e) any other matter which the Director deems necessary in the interest of safety.

(2) Where particular information referred to in paragraph (1) is not included in the manual because it is not applicable to the aerodrome, the aerodrome manual shall contain

- (a) a statement to the effect that the information is not applicable; and
- (b) the reasons why it is not applicable.

(3) Where an exemption has been granted by the Director in regulation 60 in relation to the aerodrome, an aerodrome manual shall contain

- (a) any identifying number given to the exemption by the Director;
- (b) the date on which the exemption came into effect; and
- (c) any condition subject to which the exemption is granted.

(4) The aerodrome manual and any amendments thereto shall be submitted to the Director for approval of acceptance.

Form of aerodrome manual

- 19.(1)** An aerodrome manual under this Part shall
- (a) include instructions and information necessary to allow the personnel concerned to perform their duties and responsibilities with a high degree of safety;
 - (b) be in a form that is easy to revise and contain a system which allows personnel to determine the current revision status of each manual;
 - (c) be type-written or printed and signed by the aerodrome operator;
 - (d) have a date of the last revision on each page concerned;
 - (e) not be contrary to these Regulation; and
 - (f) include a reference, where applicable, to the appropriate Civil Aviation regulation.
- (2) In additional to the matters set out in paragraph (1), the aerodrome manual referred to in paragraph (1) may be produced
- (a) in a series of parts;
 - (b) as a series of volumes; or
 - (c) as a single document.

Amendment to aerodrome manual

- 20.(1)** To maintain the accuracy of the aerodrome manual, an aerodrome operator shall amend the manual for his aerodrome
- (a) whenever it is necessary to do so; or
 - (b) upon the written directions of the Director requiring him to do so.
- (2) An aerodrome operator shall comply with any direction given to him in paragraph (1)(b).

(3) Where an aerodrome operator wishes to make an amendment to his aerodrome manual in accordance with paragraph (1), he shall submit the proposed amendment in writing to the Director for approval.

(4) Where the Director is satisfied that the amendment to an aerodrome manual submitted in paragraph (3) will not establish procedures or provide equipment which will endanger aircraft, person or the aerodrome, he may approve the amendment.

Aerodrome operation and maintenance requirement

21.(1) An aerodrome operator shall

- (a) ensure that his aerodrome is operated and maintained with a reasonable degree of care and diligence;
- (b) ensure proper and efficient maintenance of aerodrome facilities;
- (c) co-ordinate with air traffic units in order to be satisfied that appropriate air traffic services are available to ensure the safety of aircraft in the airspace associated with the aerodrome;
- (d) employ an adequate number of qualified and skilled personnel to perform all critical activities for aerodrome operation and maintenance;
- (e) implement a programme to upgrade the competency of personnel responsible for aerodrome operation and maintenance.

(2) The co-ordination referred to in paragraph (1)(c) shall include other areas related to safety such as aeronautical information services, air traffic services, designated meteorological authorities and security.

(3) An aerodrome operator shall operate and maintain the aerodrome in accordance with the procedures set out in the aerodrome manual.

(4) The Director may issue written directives to an aerodrome operator to amend the procedures set out in the aerodrome manual, to ensure the safety of aircraft.

PART V

OPERATION AND MAINTENANCE OF AN AERODROME

Management of aerodrome facilities

22.(1) An aerodrome operator shall ensure that his aerodrome is operated and maintained with a reasonable degree of care and diligence.

(2) An aerodrome operator shall establish at the aerodrome, a maintenance programme including preventative maintenance to maintain a facility in a condition that does not impact the safety, regularity and efficiency of air navigation.

(3) An operator shall ensure that any construction or maintenance activity is not undertaken in the proximity of aerodrome electrical systems at anytime during periods of low visibility operations.

(4) An architectural and infrastructure related requirement for the optimum implementation of international civil aviation security measures shall be integrated into the design and construction of new facilities and alterations to existing facilities at an aerodrome.

Person to be responsible for reporting changes in aerodrome conditions

23.(1) An aerodrome operator shall assign one or more persons in his organisation to

- (a) monitor the serviceability of the aerodrome; and
- (b) report to the Director and to the Air Traffic Control Service any changes in conditions, or any other occurrences, at the aerodrome that shall be reported in regulation 30(1).

(2) An aerodrome operator shall not assign a person under paragraph (1) to be responsible for reporting changes in aerodrome conditions unless that person has

been trained to perform the functions in accordance with the aerodrome manual for that aerodrome.

Works safety officer for aerodrome works

24.(1) Where aerodrome works are being carried out at a certificated aerodrome, an aerodrome operator shall appoint one or more persons as works safety officers for the aerodrome works.

(2) A works safety officer referred to in paragraph (1) shall ensure aerodrome safety while aerodrome works are being carried out.

(3) An aerodrome operator shall not appoint a person as a works safety officer for the aerodrome works to perform the functions of a works safety officer where that person has not been trained in accordance with the aerodrome manual for that aerodrome.

Works safety officer for time-limited works

25. Where time-limited works are being carried out at a certified aerodrome, an aerodrome operator shall ensure that a person who has been trained, in accordance with the aerodrome manual to perform the function of a works safety officer performs that function for those works.

Training of aerodrome personnel

26. An aerodrome operator shall ensure that all persons performing duties or providing services at his aerodrome are trained in accordance with the standards for training aerodrome personnel set out in his aerodrome manual.

Aerodrome manual procedures

27.(1) Subject to any directions issued in paragraph (2), an aerodrome operator shall operate and maintain an aerodrome in accordance with the procedures set out in the aerodrome manual for the aerodrome.

(2) The Director may direct an aerodrome operator to change the procedures set out in the aerodrome manual where he considers it necessary in the interest of the safety of aircraft and air navigation.

(3) A aerodrome operator shall comply with a direction given to him in paragraph (2).

Deviation from aerodrome manual procedures

28.(1) Where an aerodrome operator wishes to deviate from the procedures contained in his aerodrome manual, he may apply to the Director for approval before the implementation of such procedures.

(2) Where the Director is satisfied, after taking into consideration such aeronautical studies as he thinks fit, that the deviation applied for in paragraph (1) would attain the level of safety required by or equivalent to the standards prescribed by these Regulations, he may approve the deviation.

Aerodrome data

29. An aerodrome operator shall ensure that aerodrome data appropriate to his aerodrome certificate for his aerodrome are in accordance with the Barbados Manual of Aerodrome Standards.

Notice of changes in physical condition of aerodrome

30.(1) An aerodrome operator shall, in accordance with the Barbados Manual of Aerodrome Standards, give notice to the Director of

- (a) any temporary or permanent change in the physical condition of the aerodrome that may affect the safety of aircraft; and
- (b) any other occurrence relating to the operation or maintenance of the aerodrome that may affect the safety of aircraft.

(2) Where the aerodrome is a controlled aerodrome, the notice referred to in paragraph (1) shall also be given to the Air Traffic Control Service.

(3) In this regulation, “controlled aerodrome” means an aerodrome at which an Air Traffic Control Service is operating.

Notice of changes in information published in Aeronautical Information Publication

31. To maintain the accuracy of information published in the Aeronautical Information Publication in relation to an aerodrome certificate issued by the Director, an aerodrome operator shall inform the Director in writing as soon as practicable of any changes required to that information, other than a change that is published in the notices to airmen.

Physical characteristics of movement area

32. An aerodrome operator shall ensure that the physical characteristics of the movement area appropriate to his aerodrome certificate comply with the standards set out in the Barbados Manual of Aerodrome Standards.

Aerodrome markings

33.(1) An aerodrome operator shall mark the following areas of the aerodrome in accordance with the standards set out in the Barbados Manual of Aerodrome Standards:

- (a) the movement area;
- (b) an unserviceable area;
- (c) a works area in or near the movement area.

(2) An aerodrome operator shall ensure that all aerodrome markings are maintained in accordance with the standards set out in the Barbados Manual of Aerodrome Standards.

Signal area

34.(1) An aerodrome operator who does not have a continuous air traffic service provided by Air Traffic Control Service during the day shall provide a

signal area in accordance with the standards set out in the Barbados Manual of Aerodrome Standards.

(2) An aerodrome operator shall display the appropriate signal in the signal area in any circumstances set out in the Barbados Manual of Aerodrome Standards that require such a signal to be displayed.

(3) An aerodrome operator shall ensure that the signal area and any signal display in it are clearly visible to any aircraft intending to use the aerodrome.

Wind direction indicators

35.(1) An aerodrome operator shall, in accordance with the standards for wind direction indicators set out in the Barbados Manual of Aerodrome Standards, install and maintain at least one wind direction indicator at the aerodrome.

(2) An aerodrome operator referred to in paragraph (1) shall ensure that there is a wind direction indicator installed near the end of the runway.

(3) The Director may exempt an aerodrome operator under these Regulations from compliance with paragraph (1) only where the Director is satisfied that surface wind information is passed to the pilots of aircraft approaching the runway by

- (a) an automatic weather observing system that
 - (i) is compatible with the weather observing system of the Barbados Meteorology Office; and
 - (ii) provides surface wind information through an aerodrome weather information broadcast; or
- (b) an approved observer having a communication link with pilots through which timely information about surface wind can be clearly passed to pilots; or
- (c) any other approved means of providing surface wind information.

Visual aids for navigation

36.(1) An aerodrome operator shall ensure that visual aids

- (a) for navigation; or
- (b) denoting restricted areas

appropriate to the aerodrome certificate he holds are in compliance with the Barbados Manual of Aerodrome Standards.

(2) An aerodrome operator shall ensure visual aids for denoting restricted use areas comply with the Barbados Manual of Aerodrome Standards.

Visual approach slope indicator system

37.(1) An aerodrome operator shall in accordance with the standards for visual approach slope indicator systems set out in the Barbados Manual of Aerodrome Standards, provide an approved visual approach slope indicator system for the end of a runway at the aerodrome where that end of the runway is regularly used as the approach end for jet-propelled aircraft conducting regular public transport operations or charter operations.

(2) The Director may direct the aerodrome operator to provide an approved visual approach indicator system for the approach end or end of the runway to which paragraph (1) does not apply, where he considers it necessary in the interest of the safety of aircraft and air navigation.

(3) The aerodrome operator shall comply with a direction given to him in paragraph (2).

Signs

38.(1) An aerodrome operator shall ensure that signs are provided to convey either a mandatory instruction on a specific location or destination on a movement area, or to provide other information to meet the requirements of the Barbados Manual of Aerodrome Standards.

(2) The signs referred to in paragraph (1) may either be fixed message signs or variable message signs, and shall meet the requirements set out in the Barbados Manual of Aerodrome Standards.

Markers

39.(1) An aerodrome operator shall ensure that markers are frangible and those located near a runway or taxiway shall be sufficiently low to preserve clearance of propellers and for engine pods of jet aircraft.

(2) The markers referred to in paragraph (1) shall meet the requirements set out in the Barbados Manual of Aerodrome Standards.

Lighting of movement area

40.(1) Where an aerodrome is available for an aircraft to land or take-off at night, or in less than Visual Meteorological Conditions during the day, an aerodrome operator shall provide and maintain a lighting system for the movement area of the aerodrome that is in accordance with paragraphs (2) and (3).

(2) A lighting system referred to in paragraph (1) shall include

- (a) lighting of runways, taxiways and aprons intended for use at night or in less than VMC during the day;
- (b) lighting of at least one wind direction indicator;
- (c) lighting of obstacles within the movement area; and
- (d) where the aerodrome has a runway intended to serve Category I, Category II or Category III precision approach operations, approach, runway and taxiway, lighting for the runway and taxiway.

(3) A lighting system under this regulation shall,

- (a) where the lighting system is of a kind for which standards are specified in the Barbados Manual of Aerodrome Standards, meet those standards; or

- (b) in any other case, be of a kind approved by the Director.

Dangerous lights

41.(1) An aerodrome operator shall ensure that a non-aeronautical ground light near an aerodrome which might endanger the safety of aircraft shall be extinguished, screened or otherwise modified as to eliminate the source of the danger.

(2) An aerodrome operator shall not exhibit a light in the vicinity of an aerodrome which, by its glare, endangers the safety of aircraft arriving or departing from the aerodrome.

(3) An aerodrome operator who displays a non-aeronautical ground light or laser shall meet the requirements set out in the Barbados Manual of Aerodrome Standards.

Checking of lighting systems

42.(1) An aerodrome operator shall not put a new lighting system of a kind mentioned in paragraph (3) into service at an aerodrome unless the following requirements are met:

- (a) a pilot approved by the Director has conducted a flight check of the system; and
- (b) an electrical engineer or a licensed electrician has checked the system for compliance with any applicable electrical specifications and technical standards set out in the Barbados Manual of Aerodrome Standards.

(2) When checking compliance with a specification requires the use of survey instruments, the aerodrome operator shall ensure that the checking is done by

- (a) a person with a degree, diploma or certificate in surveying or civil engineering; or

- (b) a person with experience and competence in surveying that is acceptable to the Director.
- (3) The kinds of lighting systems referred to in paragraph (1) are as follows:
 - (a) an approach lighting system;
 - (b) a runway lighting system for instrument approach runways;
 - (c) a visual approach slope indicator system for jet-propelled aircraft, other than a system intended for use on a temporary basis for a period not longer than 30 days; and
 - (d) a pilot-activated lighting system.
- (4) An aerodrome operator shall ensure that aerodrome electrical systems are in compliance with the Barbados Manual Aerodrome Standards.

Equipment and installations

43. An aerodrome operator shall ensure that all equipment and installations at the aerodrome for which he holds an aerodrome certificate are in compliance with the Barbados Manual Aerodrome Standards.

Aerodrome Emergency Committee

44.(1) An aerodrome operator shall establish an Aerodrome Emergency Committee.

(2) The Aerodrome Emergency Committee referred to in paragraph (1) shall include a representative from the Fire Service, Police Force, Airport Security and any other emergency service that, having regard to the location of the airport, would likely to be asked to assist in the event of an emergency at the aerodrome.

Emergency and other services

45.(1) An aerodrome operator shall ensure that he complies with the requirements for emergency and other services provided for in the Barbados Manual of Aerodrome Standards.

- (2) An aerodrome operator shall ensure that rescue and fire fighting services are provided at the aerodrome.
- (3) Notwithstanding the generality of paragraph (2), an aerodrome operator shall ensure that,
 - (a) where an aerodrome is located close to water or swampy areas or difficulty terrain; or
 - (b) where a significant portion of approach or departure operations take place over areas listed in sub-paragraph (a),

specialist rescue and fire fighting equipment appropriate to the hazards and risks are available.

- (4) An **aerodrome operator** shall ensure that a fixed emergency operations centre and a mobile command post are available for use during an emergency.
- (5) An aerodrome operator shall have in place a plan for the removal of disabled aircraft from the movement area or adjacent to it.

Aerodrome emergency plan

- 46.(1)** The Committee established in accordance with regulation 44 shall prepare an aerodrome emergency plan for the aerodrome that shall include
- (a) procedures for co-ordinating the responses of all emergency service organisations referred to in the plan; and
 - (b) any other matters that are required to be included in the emergency plan as prescribed in the Barbados Manual of Aerodrome Standards.
- (2) The Committee shall review an aerodrome emergency plan referred to in paragraph (1) at least once every 12 months, and shall make any changes to the plan as are necessary to ensure that the emergency plan operates efficiently.
 - (3) The review referred to in paragraph (2) shall be carried out in consultation with the emergency service agencies referred to in the emergency plan.

- (4) As soon as practicable after an emergency exercise has been carried out at an aerodrome, or if any emergency as occurred at the aerodrome, as soon as practicable after the emergency, an aerodrome operator shall arrange for the Committee to
- (a) review the effectiveness of the responses to the exercise or the emergency;
 - (b) assess the adequacy of the emergency plan to deal with emergencies at the aerodrome; and
 - (c) take such corrective action as may be necessary to ensure that the plan operates efficiently.
- (5) An aerodrome operator shall ensure that
- (a) records of each review of the emergency plan carried out under this regulation are kept; and
 - (b) each record is retained for at least 3 years after the review to which the record relates was carried out.

Testing of aerodrome emergency plan

- 47.(1)** An aerodrome operator shall, subject to paragraphs (2), (3) and (4), conduct an emergency exercise at least once every 24 months to test
- (a) the co-ordination of the emergency service agencies referred to in the aerodrome emergency plan; and
 - (b) the adequacy of the procedures and facilities provided for in the aerodrome emergency plan.
- (2) Where a real emergency occurs at any aerodrome within 6 months before an emergency exercise is to be conducted, the aerodrome operator may ask the Director to extend the period within which the next emergency exercise shall be conducted.

- (3) The Director may grant the request referred to in paragraph (2), where he is satisfied that
- (a) all emergency service agencies referred to in the plan responded to the real emergency; and
 - (b) the real emergency adequately tested the plan.
- (4) In granting a request referred to in paragraph (3), the Director may extend the period until the end of 24 months after the date on which the real emergency occurred.

Aerodrome serviceability inspections

48.(1) An aerodrome operator shall conduct an aerodrome serviceability inspection to ensure that it is safe for aircraft operations to continue at an aerodrome in the following circumstances:

- (a) after a gale, storm or other severe weather;
 - (b) as soon as practicable after any aircraft accident or incident;
 - (c) during any period of construction or repair of the aerodrome facilities or equipment critical to safety of aerodrome operations;
 - (d) at any time that the Air Traffic Control Service or the Director requires the inspection; and
 - (e) at any other time when there are conditions at the aerodrome which could affect safety.
- (2) An aerodrome serviceability inspection referred to in paragraph (1) shall include the following:
- (a) an inspection of the movement area to check its surface condition, including a check for the presence of foreign objects;
 - (b) an inspection of aerodrome markings, lighting, signs, wind direction indicators and ground signals;

- (c) an inspection for any obstacles infringing the take-off, approach and transitional surfaces;
 - (d) an inspection for any birds or animals on or near the movement area;
 - (e) an inspection of any measures, including aerodrome fencing, to control the inadvertent entry of persons or animals into the movement area;
 - (f) an empirical assessment of the bearing strength of unrated runway pavements;
 - (g) an empirical assessment of the runway strip or each runway strip where the runway concerned is not marked and the whole runway strip may be used for aircraft operations; and
 - (h) a check of the accuracy and currency of notices to airmen in respect of the aerodrome.
- (3) The inspections referred to in paragraph (2), shall comply with all applicable standards for aerodrome serviceability inspections set out in the Barbados Manual of Aerodrome Standards.

Requirement to conduct aerodrome technical inspections

- 49.(1)** An aerodrome operator shall conduct aerodrome technical inspections for the aerodrome to ensure that any deterioration that could make a facility unsafe for aircraft operations is detected.
- (2) An aerodrome technical inspection shall include the following:
- (a) an instrument survey of the approach, take-off and transitional surfaces;
 - (b) an inspection and testing of the aerodrome lighting and electrical reticulation systems, including the visual approach slope indicator;
 - (c) an electrical testing of any earthing points at the aerodrome;
 - (d) an inspection and assessment of the movement area, pavements and drainage;

- (e) an inspection of signs on the movement area;
 - (f) an inspection of facilities at the aerodrome used for any of the following:
 - (i) aerodrome emergencies;
 - (ii) the handling of hazardous materials;
 - (iii) bird and animal hazard management;
 - (iv) stand-by and emergency aerodrome lighting;
 - (g) an inspection of airside vehicle control arrangements; and
 - (h) a check of the currency and accuracy of
 - (i) aerodrome information published in the Aeronautical Information Publication; and
 - (ii) aerodrome operating procedures specified in the aerodrome manual for the aerodrome.
- (3) An inspection referred to in paragraph (2) shall comply with all applicable standards for aerodrome technical inspections set out in the Barbados Manual of Aerodrome Standards.

Timeframe for the conduct of technical inspections

- 50.(1)** An aerodrome operator shall ensure that
- (a) an aerodrome technical inspection is conducted at intervals of not more than 12 months; or
 - (b) where the operator has elected to have a part or parts of the aerodrome technical inspection conducted at different times as stated in paragraph (2), each facility for the aerodrome to be inspected is inspected at intervals of not more than 12 months.
- (2) An aerodrome operator may elect to have a part or parts of an aerodrome technical inspection conducted at different times from the other parts.

- (3) Where it appears from an aerodrome serviceability inspection that a particular facility at the aerodrome requires an aerodrome technical inspection, the aerodrome operator shall ensure that the necessary technical inspection of the facility is conducted as soon as practicable.
- (4) An aerodrome operator shall,
- (a) where the aerodrome operator has elected to have a part or parts of an aerodrome technical inspection conducted at different times as stated in paragraph (2),
 - (i) keep records of each part of each inspection; and
 - (ii) retain each record for at least 3 years after the part of the inspection to which the record relates was conducted; or
 - (b) in any other case,
 - (i) keep record of each inspection; and
 - (ii) retain each record for at least 3 years after the inspection to which the record relates was conducted.

Qualifications for the conduct of technical inspections

- 51.(1)** An aerodrome operator shall ensure that an aerodrome technical inspection is conducted by a person or persons with appropriate technical qualifications and experience.
- (2) Notwithstanding the generality of paragraph (1), an aerodrome operator shall ensure that
- (a) in the movement area, other pavements and drainage are inspected by a person who has a recognised degree, diploma or certificate in civil engineering or appropriate technical experiences;
 - (b) the lighting and electrical facilities are inspected by an electrical engineer or a licensed electrician; and

- (c) the obstacle limitation surfaces are inspected by a person who
 - (i) is technically qualified or experienced in surveying; and
 - (ii) has a sound knowledge and understanding of the standards and survey procedures for obstacle limitation surfaces.

Planning and execution of aerodrome works

52.(1) An aerodrome operator shall ensure that any aerodrome works carried out at the aerodrome are carried out in a way that does not create a hazard to aircraft, or cause confusion to pilots.

(2) The aerodrome operator shall comply with the standards set out in the Barbados Manual of Aerodrome Standards in relation to planning and notice requirements that shall be satisfied before aerodrome works may be carried out.

Safety management system

53. An aerodrome operator shall ensure that

- (a) an aerodrome used by aircraft engaged in international operations; and
- (b) any other aerodrome,

has a safety management system that complies with the standards set out in the *Civil Aviation (Safety Management) Regulations, 2016* (S.I. 2016 No.).

Aerodrome operators to collect statistics, if directed.

54. Where the Director considers it necessary in the interests of the safety of air navigation, he may give directions in writing to an aerodrome operator to collect

- (a) statistics about
 - (i) the types of aircraft using the aerodrome; and
 - (ii) the times of aircraft movement at the aerodrome; and

- (b) any other information specified by the Director in the directive that is relevant to deciding what radio communication services or air traffic services should be provided at the aerodrome.

PART VI

OBSTACLES AND HAZARDS

Visual aids denoting obstacles

55. An aerodrome operator shall ensure that visual aids for denoting obstacles appropriate to the aerodrome certificate he holds comply with the standards set out in Barbados Manual of Aerodrome Standards.

Monitoring of airspace

56. An aerodrome operator shall monitor the airspace around the aerodrome for infringement of the obstacle limitation surfaces by

- (a) any object, building or structure; or
- (b) any gaseous efflux having a velocity exceeding 4.3 metres per second.

Establishment of obstacle limitation surfaces

57. An aerodrome operator shall ensure that obstacle limitation surfaces are established for the aerodrome in accordance with the standards set out in Barbados Manual of Aerodrome Standards.

Notice of obstacles

58.(1) An aerodrome operator shall take all reasonable measures to ensure that obstacles at, or within the vicinity of, the aerodrome are detected as quickly as possible.

- (2) Where the aerodrome operator becomes aware of the presence of an obstacle, he shall
- (a) inform the Director immediately; and
 - (b) give the Director details of
 - (i) the height and location of the obstacle; and
 - (ii) the amended declared distances and gradients, if applicable.
- (3) Where the aerodrome operator becomes aware of any development or proposed construction near the aerodrome that is likely to create an obstacle, he shall
- (a) inform the Director as soon as practicable; and
 - (b) give the Director details of the likely obstacle.
- (4) An aerodrome operator shall in consultation with the Director
- (a) prevent the construction of any facility on the aerodrome, which may adversely affect the operation of any electronic or visual navigation or air traffic service facility on the aerodrome; and
 - (b) as far as it is within the authority of the operator, prevent any activity which can result in the interruption of visual or electronic signal of navigation aids.

Structures 110 metres or more above ground level

59. A person who proposes to construct a building or structure the top of which will be 110 metres or more above ground level, shall inform the Director of that intention and the proposed height and location of the building or structure.

Hazardous objects

- 60.(1)** The Director may determine in writing that
- (a) an obstacle, any proposed development or other proposed construction that is likely to create an obstacle;

- (b) a building or structure the top of which will be 110 metres or more above ground level; or
- (c) a proposed building or structure the top of which will be 110 metres or more above ground level

is or will be a hazardous object because of its location, height or lack of marking or lighting.

(2) The Director may determine in writing that a gaseous efflux having a velocity exceeding 4.3 metres per second is, or will be, a hazard to aircraft operations because of the velocity or location of the efflux.

(3) Where the Director makes a determination in accordance with paragraph (1) or (2), he shall

- (a) publish in the Aeronautical Information Publication or in a notice to airmen particulars of the hazardous object or gaseous efflux to which the determination relates; and
- (b) give written notice of the determination in accordance with paragraph (4).

(4) The Director shall give a copy of the notice,

- (a) in the case of a hazardous object, that is a proposed building or structure, to all agencies whose approval is required for the construction; and
- (b) in any other case other than that set out in sub-paragraph (a), to an identifiable person who
 - (i) is the owner or occupier;
 - (ii) has control of the hazardous object; or
 - (iii) is in control of the installation that produces the gaseous efflux.

Aerodrome environment management programme

61.(1) An aerodrome operator shall establish and maintain an aerodrome environment management programme for the area within the authority of the operator and for the area where any wildlife presents or is likely to present a hazard to aircraft operations.

(2) An aerodrome operator shall ensure that the environment management programme established under paragraph (1) minimises the effects of any hazards or potential hazards taking into account the provisions of the laws on environmental management.

(3) An aerodrome operator shall take the necessary action to control wildlife hazards at the aerodrome.

(4) An aerodrome operator shall ensure that procedures to deal with the danger posed to aircraft operations by the presence of birds and animals in the aerodrome flight pattern or movement area are in place.

(5) An aerodrome operator shall take all reasonable steps to minimise the risks associated with bird strike hazards.

(6) An aerodrome operator shall take practical measures to control the bird habitat at or around the aerodrome and to disperse birds, which are a potential hazard to aircraft operations.

(7) Where a bird hazard is identified at an aerodrome, the aerodrome operator shall take action to decrease the number of birds constituting the potential hazard to aircraft operations by adopting measures for discouraging their presence on or in the vicinity of the aerodrome.

(8) An aerodrome operator shall take measures to eliminate or to prevent the establishment of garbage disposal dumps or any other source of garbage that may attract bird activity on, or in the vicinity of an aerodrome, unless an appropriate aeronautical study indicates that the dumps are not likely to create conditions conducive to a bird hazard problem.

Animals not allowed in restricted areas of aerodrome

62.(1) Unless permission is given by the aerodrome operator, no person shall bring, permit or graze an animal on the airside of an aerodrome or cause any animal to graze or feed in any area deemed as restricted to these activities.

(2) Subject to paragraph (2), a person who brings, permits or grazes an animal in the airside of an aerodrome or who causes an animal to graze or feed in a restricted area of an aerodrome or who receives an animal in the restricted area of the aerodrome, shall ensure that the animal is at all times under proper control while in the restricted area.

PART VII

MISCELLANEOUS

Exemptions

63.(1) The Director may in writing exempt an aerodrome operator from complying with specific provisions of these Regulations.

(2) An exemption granted by the Director in paragraph (1) shall be subject to any condition or procedures specified by the Director in the relevant aerodrome certificate as being necessary in the interest of safety.

(3) An exemption under this Part shall be subject to the aerodrome operator complying with the conditions and procedures referred to in paragraph (2).

(4) Where an aerodrome operator does not meet the requirements of any applicable standard prescribed in the Barbados Manual of Aerodrome Standards, the Director may determine, after carrying out aeronautical studies where permitted by the Barbados Manual of Aerodrome Standards, the conditions and procedures necessary to ensure an equivalent level of safety is established for the applicable standard.

(5) Where an aerodrome operator deviates from any standard, condition or procedure referred to in paragraph (4), the deviation shall be set out as an endorsement on his aerodrome certificate.

Director may make standards or amend standards

64.(1) The Director may make standards or amend standards and incorporate them by reference into these Regulations.

(2) The Director shall not make a standard or an amendment to a standard unless the Director has undertaken consultations with interested parties concerning the standard or the amendment.

(3) No standard or amendment may come into effect less than 30 days after it is made.

(4) A standard or an amendment to a standard may be made and brought into effect by the Director without regard to paragraph (2) or (3) where the standard or amendment is urgently required to ensure aviation safety or the safety of the public.

Repeal

65. The *Civil Aviation (Airport Certification) Regulations, 2007* (S.I. No. 181) are hereby repealed.

Made by the Minister this day of , 2016.

Minister Responsible for Civil Aviation