

**Civil Aviation**

**CIVIL AVIATION (AERIAL WORK)  
REGULATIONS, 2007**

**ARRANGEMENT OF REGULATIONS**

REGULATION

**PART I**

*Preliminary*

1. Citation.
2. Interpretation.

**PART II**

*Agricultural Aircraft Operations*

3. Applicability of Part II.
4. Agricultural aircraft operator certificate.
5. Certificate requirements.
6. Application for certificate.
7. Certification requirements.
8. Duration of a certificate.
9. Amendment of a certificate.
10. Certificate to be carried.
11. General operating rules.
12. Dispensing of material or substance from aircraft.

**THE LAWS OF BARBADOS**

Printed by the Government Printer, Bay Street, St. Michael  
by the authority of the Government of Barbados

## REGULATION

13. Dispensing of economic poison.
14. Qualification of personnel.
15. Controlled airspace designated for an airport or under visual flight rules.
16. General requirements for operations over congested areas.
17. Pilot and aircraft operations over congested areas.
18. Jettisoning of agricultural material.
19. Records and reports.
20. New address of agricultural aircraft operator.

## PART III

*Helicopter External-Load*

21. Applicability of Part III.
22. Rotorcraft external-load operator certificate.
23. Application for renewal of a rotorcraft external-load operator's certificate.
24. Personnel requirements for a certificate.
25. Issue of a certificate.
26. Exclusive use of a rotorcraft.
27. Duration of a certificate.
28. Amendment of a certificate.
29. Certificate to be kept or returned.
30. Rotorcraft operating rules.
31. Restrictions on the carriage of persons.

## REGULATION

32. Crew member training, currency, and testing requirements.
33. Flight characteristics requirements.
34. Structures and design of external-load attaching means.
35. Operating limitations.
36. Rotorcraft load combination flight manual.
37. Requirements for markings and placards.
38. Airworthiness certificate.

## PART IV

*Glider Towing*

39. Applicability of Part IV.
40. Private pilot licence with a category rating for towing aircraft.
41. Requirements for aircraft involved in towing.
42. Experience and training required for tow pilot.

## PART V

*Banner Towing*

43. Applicability of Part V.
44. Banner-towing certificate or authorisation.
45. Banner-towing requirements for aircraft.
46. Banner-tow operations experience and training requirements.
47. Operating rules for banner-tow operations.

REGULATION

PART VI

*Television and Movie Operations*

48. Applicability of Part VI.
49. Aerial television and movie certificate or authorisation.
50. Aircraft requirements for a certificate.
51. Television and movie operations on aircraft.
52. Waiver requirements.
53. Contents of a motion picture and television flight operations manual.

PART VII

*Sightseeing flights*

54. Applicability of Part VII.
55. Sightseeing flight certificate or authorisation.
56. Experience and training requirements of air operator certification.
57. Operating rules for sightseeing flight certificate or authorisation.

PART VIII

*Fish Spotting*

58. Applicability of Part VIII.
59. Fish spotting certificate or authorisation.
60. Operating rules for fish spotting certificate or authorisation.

REGULATION

PART IX

*Traffic Reporting*

61. Applicability of Part IX.
62. Vehicular traffic reporting certificate or authorisation.
63. Director may make standards or amend standards.



**Civil Aviation**

Cap. 288B.

**CIVIL AVIATION (AERIAL WORK)  
REGULATIONS, 2007**

2008/180.

**Authority:** These Regulations were made on 31st December, 2007 by the Minister under section 10(1) of the *Civil Aviation Act*.

**Commencement:** 7th January, 2008.

**PART I***Preliminary*

**1.** These Regulations may be cited as the *Civil Aviation (Aerial Work) Regulations, 2007*. Citation.

**2.** (1) In these Regulations,

Interpreta-  
tion.

"aerial work" means operations in an aircraft used for specialized services such as agriculture, section photography, surveying, observation and patrol, search and rescue, aerial advertisement;

"aerobatic flight" means an intentional manoeuvre of an aircraft involving an abrupt change in the attitude of an aircraft, an abnormal attitude, or abnormal acceleration of an aircraft, not necessary for normal flight;

"agricultural aircraft operation" means aerial work in an aircraft for the purpose of

(a) dispensing any economic poison;

(b) dispensing any other substance intended for plant nourishment, soil treatment, propagation of plant life or pest control; or

(c) engaging in dispensing activities directly affecting agriculture, horticulture, or forest preservation, but not including the dispensing of live insects;

2007/172. "airline transport pilot licence" has the meaning assigned to it by the *Civil Aviation (General Application and Personnel Licensing) Regulations, 2007*;

"air operator" has the meaning assigned to it in the *Civil Aviation (General Application and Personnel Licensing) Regulations, 2007*;

"banner" means an advertising medium supported by a temporary framework attached externally to the aircraft and towed behind the aircraft;

"commercial pilot licence" has the meaning assigned to it by the *Civil Aviation (General Application and Personnel Licensing) Regulations, 2007*;

"economic poison" means a substance or mixture of substances intended for

(a) preventing, destroying, repelling, or mitigating any insects, rodents, nematodes, fungi, weeds and other forms of plant or animal life or viruses, which the appropriate agency may declare to be a pest; and

(b) use as a plant regulator, defoliant or desiccant;

"movie" means any film, video and live broadcast in any format and the preparation and rehearsal for these operations;

"public aircraft" means an aircraft used only for the Barbados Government or owned and operated by a Government of a foreign State, but not conducting commercial operations; and

"rotorcraft load combinations" means configurations for external-loads carried by rotorcraft in the classes set out in the Aerial Work Standards.

## PART II

*Agricultural Aircraft Operations*

3. (1) This Part prescribes

Applicabil-  
ity of Part II.

(a) the manner in which agricultural aircraft operations may be conducted within Barbados; and

(b) the issue of an agricultural aircraft operator certificate for those operations.

(2) These Regulations apply to commercial aircraft operation used for specialized services.

(3) A person conducting agricultural aircraft operations under this Part may, in a public emergency, where necessary, deviate from the operating rules under this Part for relief and welfare activities that are approved by the Director.

(4) A person who deviates from the operating rules under this Part shall, within 10 days after such deviation, submit to the Director a complete report of the aircraft operation involved, including a description and the reasons for the deviation.

4. (1) For the purpose of this Part "certificate" means an agricultural aircraft operator certificate.

Agricultural  
aircraft  
operator  
certificate.

(2) Except as provided in paragraph (4) a person shall not conduct agricultural aircraft operations without a certificate issued by the Director.

(3) An operator may, where he complies with regulations 3 and 5 through 21, conduct agricultural aircraft operations with a rotorcraft with external dispensing equipment without a rotorcraft external-load operator's certificate required by regulation 23.

(4) A person holding a rotorcraft external-load operator's certificate under these Regulations may conduct an agricultural aircraft operation involving the dispensing of water on forest fires by rotorcraft external-load means.

Certificate  
require-  
ments.

- 5.** (1) An applicant for a certificate shall hold either a current
- (a) private pilot licence;
  - (b) commercial pilot licence; or
  - (c) airline transport pilot licence,

issued by the Director, and be properly rated for the aircraft to be used in the operation.

(2) An applicant referred to in paragraph (1) shall satisfactorily demonstrate to the Director

- (a) that he meets the following knowledge requirements:
  - (i) the steps to be taken before starting operations, including a survey of the area to be worked;
  - (ii) the safe handling of economic poisons and the proper disposal of used containers for those poisons;
  - (iii) the general effects of economic poisons and agricultural chemicals on plants, animals, and persons, and the precautions to be observed in using economic poisons and chemicals;
  - (iv) the primary symptoms of poisoning persons from economic poison, the appropriate emergency measures to be taken, and the location of poison control centres;
  - (v) the performance capabilities and operating limitations of the aircraft to be used;
  - (vi) safe flight and application procedures; and
- (b) through a skill test, that he can successfully perform the following manoeuvres demonstrated at the aircraft's maximum certified take-off weight, or the maximum weight established for the special purpose load, whichever is greater:
  - (i) short-field and soft-field take-offs in respect of aeroplanes and gyroplanes;

- (ii) approaches to the working area;
- (iii) flare-outs;
- (iv) swath runs;
- (v) pull-ups and turnarounds; and
- (vi) rapid deceleration in helicopters only.

- 6.** A person wishing to apply for a certificate under this Part shall
- (a) apply to the Director in the prescribed form; and
  - (b) pay the prescribed fees.

Application  
for  
certificate.

- 7.** (1) Except as provided in paragraph (2), where the Director is satisfied that an applicant for a certificate meets the requirements of this Part he may issue the applicant with a certificate.

Certification  
require-  
ments.

(2) An applicant who applies for a certificate that contains a prohibition against the dispensing of economic poisons shall be exempted from the requirement of demonstrating knowledge that is specific to economic poisons.

(3) An agricultural aircraft operator, before conducting operations under these Regulations, shall ensure that his aircraft is

- (a) issued with an airworthiness certificate under the *Civil Aviation (Airworthiness) Regulations, 2007*; and
- (b) equipped for agricultural operation.

2007/175.

- 8.** A certificate issued by the Director shall be valid for a period of 12 months from the date of issue unless otherwise surrendered, suspended or revoked.

Duration of  
a certificate.

Amendment  
of a  
certificate.

- 9.** (1) A certificate may be amended
- (a) by the Director on his own initiative, pursuant to applicable regulations; or
  - (b) upon the application by a person who holds a certificate.
- (2) An application to amend a certificate referred to in paragraph (1)(b) shall be
- (a) made in the form and manner prescribed by the Director; and
  - (b) filed at least 15 days before the date the amendment is due to become effective, unless the Director specifies otherwise.
- (3) The Director may grant a request to amend a certificate, where he is satisfied that safety in air commerce and the public interest is secured.
- (4) Where an application to amend a certificate is refused, the applicant may within 30 days thereafter petition the Director to reconsider his decision.

Certificate  
to be  
carried.

- 10.** (1) A person holding a certificate shall keep such certificate at the base from which he conducts operations, and shall make it available for inspection on the request of the Director.
- (2) A person shall not conduct an agricultural aircraft operation in an aircraft unless he has a copy of the certificate on board such aircraft.
- (3) An aircraft registration and certificate of airworthiness issued by the Director may not be carried on board an aircraft that is involved in agricultural aircraft operations where such registration and certificate of airworthiness are available for inspection at the base from which operations are conducted.

General  
operating  
rules.

- 11.** (1) Except as provided in paragraph (3), regulations 12 to 30 prescribe the rules that apply to persons and aircraft used in agricultural aircraft operations conducted under this Part.

(2) A person holding a current agricultural aircraft operator certificate may deviate from the provisions of the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007* 2007/173. without a certificate of waiver when conducting operations related to agriculture, horticulture or forest preservation in accordance with operating rules under this Part.

(3) Operating rules referred to in regulations 9 to 18 apply to a person holding a rotorcraft external-load certificate and conducting agricultural aircraft operations involving only the dispensing of water on forest fires by rotorcraft external-load means.

**12.** No person shall dispense, or cause to be dispensed, any material or substance from an aircraft in any manner that would create a hazard to persons, animals or property on the ground. Dispensing of material or substance from aircraft.

**13.** (1) No person shall dispense, or cause to be dispensed, any economic poison unless such economic poison is registered with the Director. Dispensing of economic poison.

(2) No person shall dispense, or cause to be dispensed, any economic poison that is registered with the Director

- (a) for a use other than that for which it is registered;
- (b) contrary to any safety instructions or use limitations on its label; or
- (c) in violation of any written law.

(3) Notwithstanding paragraph (1), a person may dispense economic poisons registered or unregistered for experimental purposes under

- (a) the supervision of an agency in Barbados authorised by law to conduct research in the field of economic poisons; or
- (b) a permit issued by the Director.

Qualifica-  
tion of  
personnel.

**14.** (1) No person shall conduct agricultural aircraft operations on an aircraft unless he informs all persons employed by him to conduct such agricultural aircraft operations of their respective duties and responsibilities.

(2) No person shall supervise an agricultural aircraft operation unless he meets the knowledge and skill requirements under this Part.

(3) No person shall act as pilot in command of an aircraft involved in agricultural aircraft operations under this Part unless he

(a) holds a current certificate and rating prescribed under this Part as appropriate to the type of operation conducted; or

(b) demonstrates to the satisfaction of the person holding a certificate and conducting agricultural aircraft operations, or to a supervisor designated by such person, that he possesses the knowledge and skill requirements under regulation 5(2).

Controlled  
airspace  
designated  
for an  
airport or  
under visual  
flight rules.

**15.** (1) No person shall conduct agricultural operations on an aircraft

(a) within the lateral boundaries of the surface area of Class D airspace designated for an airport except for flights to and from a dispensing area; and

(b) in weather conditions below visual flight rules minima within the lateral boundaries of a Class E airspace area that extends upward from the surface,

without authorisation from the air traffic control facility having jurisdiction over that area.

(2) A person holding a certificate may operate an aircraft under special visual flight rules weather minimums without meeting the requirements prescribed in the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007*.

2007/173.

**16.** (1) A person may conduct agricultural aircraft operations or cause such operations to be conducted over a congested area at required altitudes if such agricultural aircraft operations are conducted

General requirements for operations over congested areas.

- (a) without jeopardizing the safety of persons and property on the ground;
- (b) after a plan for an agricultural aircraft operation is submitted and approved by the Director; and
- (c) in the manner prescribed by the Director.

(2) A plan for an agricultural aircraft operation referred to in paragraph (1)(b) shall include

- (a) obstructions to flight;
- (b) emergency landing capabilities of the aircraft to be used; and
- (c) any necessary co-ordination with air traffic control facilities.

(3) The rules governing agricultural aircraft operations over congested areas in single-engine and multi-engine aircraft are set out in the Aerial Work Standards.

**17.** A pilot shall not conduct agricultural aircraft operations over congested areas unless he has at least

Pilot and aircraft operations over congested areas.

- (a) 25 hours of pilot in command flight time in the make and basic model of aircraft, including at least 10 hours within the preceding 12 months; and
- (b) 100 hours of flight experience as a pilot in command dispensing agricultural materials or chemicals.

**18.** (1) All aircraft, except for helicopters, shall be capable of jettisoning at least one-half of the maximum authorised load of agricultural material of the aircraft within 45 seconds.

Jettisoning of agricultural material.

(2) Where an aircraft is equipped to release the tank or hopper as a unit, there shall be a means to prevent inadvertent release by the pilot or other crew member.

Records and  
reports.

**19.** (1) A person holding a certificate shall maintain and keep current, at the home base where his operations are conducted, the following records:

- (a) the name and address of each person for whom agricultural aircraft services are provided;
- (b) the date the services were provided;
- (c) the name and quantity of the material dispensed for each operation conducted; and
- (d) the name, address, and certificate number of each pilot employed in the agricultural aircraft operations, and the date that pilot met the knowledge and skill requirements under this Part.

(2) The records requirement under this regulation shall be kept for at least 12 months.

New address  
of agricul-  
tural aircraft  
operator.

**20.** A person holding a certificate shall notify the Director in writing in advance of any change in the address of the home base where he conducts operations.

### PART III

#### *Helicopter External-Load*

Applicabil-  
ity of  
Part III.

**21.** (1) This Part prescribes

- (a) the certification and airworthiness requirements for rotorcraft used in external-load operations; and
- (b) the operating and certification requirements governing the conduct of rotorcraft external-load operations in Barbados.

(2) The certification requirements under these Regulations shall not apply to

- (a) rotorcraft manufacturers when developing external-load attaching means;

- (b) operations conducted by a person demonstrating compliance for the issuance of a certificate or authorisation under these Regulations;
- (c) training flights conducted in preparation for the demonstration of compliance with these Regulations; or
- (d) the conduct of operations by the Government of Barbados utilizing a public aircraft.

(3) A person other than a crew member or a person who is essentially and directly connected with external-load operation shall be carried only in approved Class D rotorcraft load combinations.

**22.** (1) For the purposes of this Part, "certificate" means a rotorcraft external-load operator certificate.

(2) Subject to regulation 4(4), a person shall not conduct rotorcraft external-load operations without a certificate or in violation of the terms of such certificate or equivalent authorisation issued by the Director.

**23.** A person wishing to apply for a certificate or a renewal of a certificate under this Part shall

- (a) apply to the Director in the prescribed form; and
- (b) pay the prescribed fees.

**24.** (1) An applicant referred to in regulation 23 for a certificate shall hold, or have available, the services of at least one person who holds a current

- (a) commercial pilot licence; or
- (b) airline transport pilot licence,

with a rating appropriate for the rotorcraft to be used.

(2) An applicant referred to in regulation 24 shall designate one person or any other suitably qualified person for rotorcraft external-load operations.

(3) An applicant may designate suitably qualified pilots as assistant chief pilots to perform the functions of the chief pilot where the chief pilot is not readily available.

(4) A person selected as chief pilot and assistant chief pilot shall be acceptable to the Director and shall hold a current

(a) commercial pilot licence; or

(b) airline transport pilot certificate,

with a rating appropriate for the rotorcraft to be used.

(5) A person holding a certificate shall report any change in designation of the chief pilot or assistant chief pilot immediately to the Director.

(6) An operator shall not continue to conduct operations under the rotorcraft external-load operator certificate unless the chief pilot demonstrates compliance with the knowledge and skill requirements within 30 days of his designation, or where otherwise authorised by the Director.

Issue of a  
certificate.

**25.** Where the Director is satisfied that an applicant under regulation 24 meets the requirements under this Part, he may issue a certificate with an authorisation to operate specified rotorcraft with the classes of rotorcraft load combinations for which the applicant or certificate holder qualifies under the applicable provisions of this Part.

Exclusive  
use of a  
rotocraft.

**26.** An applicant referred to in regulation 23 shall have the exclusive use of at least one rotorcraft that

(a) was type certified under, and meets the requirements for rotorcraft external-load operations under, the several parts of these Regulations which prescribe the requirements for rotorcraft external-load operations;

- (b) complies with the certification provisions in this Part that apply to the rotorcraft load combinations for which a certificate is required; and
- (c) has a valid certificate of airworthiness.

**27.** A certificate issued by the Director shall be valid for a period of 12 months from the date of issue unless otherwise surrendered, suspended or revoked. Duration of a certificate.

**28.** (1) A person holding a certificate may apply to the Director to amend the certificate by either adding or deleting a rotorcraft load combination authorisation. Amendment of a certificate.

(2) An application referred to in paragraph (1) shall be accompanied by a new list of rotorcraft, the registration number of the rotorcraft, and the classes of rotorcraft load combinations for which authorisation is sought.

**29.** (1) A person conducting rotorcraft external-load operation under this Part shall keep a copy of his certificate in each rotorcraft used in his operation. Certificate to be kept or returned.

(2) Where

- (a) a certificate is suspended or revoked by the Director; or
- (b) a certificate holder discontinues operations and does not resume operations within 2 years,

he shall return the certificate to the Director.

**30.** (1) No person shall conduct rotorcraft external-load operations contrary to the rotorcraft load combination flight manual prescribed in regulation 36. Rotorcraft operating rules.

(2) No person shall conduct rotorcraft external-load operation unless

- (a) the rotorcraft complies with the requirements under regulation 26; and

(b) the rotorcraft and rotorcraft load combination is authorised under the certificate.

(3) No person shall operate a rotorcraft with external-load configuration that differs substantially from that which he previously operated, whether or not the rotorcraft load combination is of the same class, unless that person conducts the following operational checks:

(a) a determination that the weight of the rotorcraft or load combination and the location of its centre of gravity are within approved limits;

(b) that the external-load is securely fastened;

(c) that the external-load does not interfere with devices provided for its emergency release;

(d) make an initial lift-off and verify that the rotorcraft is controlled satisfactorily;

(e) verify that directional control is adequate while hovering;

(f) accelerate into forward flight to verify that no altitude whether of the rotorcraft or of the external-load is encountered in which the rotorcraft is uncontrollable or which is otherwise hazardous;

(g) in forward flight, check for hazardous oscillations of the external-load and where the external-load is not visible to the pilot, other crew members or ground personnel may assist in this check and signal the pilot; and

(h) increase the forward airspeed and determine an operational airspeed at which no hazardous oscillation or hazardous aerodynamic turbulence is encountered.

(4) Notwithstanding the provisions of the *Civil Aviation (Aircraft Operations) Regulations, 2007*,<sup>2007/174.</sup> a person holding a certificate may conduct rotorcraft external-load operations over congested areas if such operations are conducted without jeopardizing the safety of persons or property on the surface and comply with the following requirements:

- (a) the operator shall develop a plan for each complete operation and obtain approval for such operation from the Director, which shall include
  - (i) an agreement with the appropriate agencies that he will exclude unauthorised persons from the area in which the operation is being conducted;
  - (ii) co-ordination of operations with Air Traffic Control; and
  - (iii) where necessary, a detailed chart depicting the flight routes and altitudes;
- (b) a flight shall be conducted at an altitude, and on a route, that will allow jettisoning of external-load and the landing of the rotorcraft in an emergency without jeopardizing the safety of persons or property on the surface.

(5) Notwithstanding the provisions of the *Civil Aviation (Aircraft Operations) Regulations, 2007*,<sup>2007/174.</sup> and except as provided in regulation 35(1)(d), a person holding a certificate may conduct external-load operations, including approaches, departures, and load positioning manoeuvres 500 feet above the surface and closer than 500 feet to persons, vessels, vehicles, and structures, if the operations are conducted without jeopardizing the safety of persons or property on the ground.

(6) No person shall conduct rotorcraft external-load operations under Instrument Flight Rules unless approval is obtained from the Director.

Restrictions  
on the  
carriage of  
persons.

**31.** (1) A person holding a certificate shall not allow any person to be carried on board a rotorcraft during external-load operations unless such person

- (a) is a flight crew member;
- (b) is a flight crew member trainee;
- (c) performs an essential function in connection with the rotorcraft external-load operation; or
- (d) is necessary to accomplish any work activity directly associated with that operation.

(2) The pilot in command of an aircraft involved in external-load operations shall ensure that all persons are briefed before take-off on all important procedures to be followed including normal, abnormal, and emergency procedures and the equipment to be used during the external-load operation.

Crew  
member  
training,  
currency,  
and testing  
require-  
ments.

**32.** (1) No person holding a certificate shall use or allow any other person to serve as a pilot in any helicopter external-load operations unless that person

- (a) has successfully demonstrated to the Director the knowledge and skill requirements in relation to rotorcraft load combination; and
- (b) has in his possession a letter of competency or an appropriate logbook entry indicating compliance with paragraph (a).

(2) No person holding a certificate shall use any other person to serve as a crew member or other operations personnel in Class D operations unless that person has within the preceding 12 months successfully completed either an approved initial or a recurrent training programme.

(3) Notwithstanding paragraph (2), a person who has performed a rotorcraft external-load operation of the same class and in an aircraft of the same type within the past 12 months may not be required to undergo an approved or recurrent training programme.

**33.** (1) An applicant for a certificate shall successfully demonstrate to the Director an operational flight check showing that the rotorcraft load combination has satisfactory flight characteristics, except where such flight check had been previously successfully demonstrated by the applicant.

Flight characteristics requirements.

(2) The external-load weight including the external-load attaching mechanism for which the applicant is required to demonstrate operational flight checks referred to in paragraph (1) shall have the maximum weight for which authorisation is granted.

(3) For a Class A rotorcraft load combination, the operational flight check shall include the following manoeuvres:

- (a) take-off and landing;
- (b) a demonstration of adequate directional control while hovering;
- (c) acceleration from a hover; and
- (d) horizontal flight at airspeeds up to the maximum airspeed for which authorisation is requested.

(4) For Class B and Class D rotorcraft load combinations, the operational flight check shall include the following manoeuvres:

- (a) pickup of the external-load;
- (b) a demonstration of adequate directional control while hovering;
- (c) acceleration from a hover;
- (d) horizontal flight at airspeeds up to the maximum airspeed for which authorisation is requested;
- (e) a demonstration of an appropriate lifting device operation; and
- (f) manoeuvring of the external-load into release position and release, under probable flight operation conditions, by means of each of the quick-release controls installed on the rotorcraft.

(5) For a Class C rotorcraft load combination, used in wire stringing, cable-laying or similar operations, the operational flight check shall consist of the relevant manoeuvres, as prescribed in paragraph (4).

Structures  
and design  
of external-  
load  
attaching  
means.

**34.** Where the Director is satisfied that the structure and design of the external-load attaching means of a rotorcraft meets the requirements under this Part, he may approve

- (a) the external-load attaching means;
- (b) a quick release device; and
- (c) the weight and centre of gravity for
  - (i) the total weight of the rotorcraft load combination which shall not exceed the total weight approved for the rotorcraft during its type certification;
  - (ii) all loading conditions, the location of the centre of gravity shall, be within the range established for the rotorcraft during its type certification; and
  - (iii) Class C rotorcraft load combinations, the magnitude and direction of the loading force must be established at those values for which the effective location of the centre of gravity remains within its established range.

Operating  
limitations.

**35.** (1) In addition to the operating limitations in the approved rotorcraft flight manual required by regulation 36, and any other limitations the Director may prescribe, a person holding a certificate shall establish and set out in the Rotorcraft Load Combination Flight Manual for rotorcraft load combination operations the following limitations requirements:

- (a) the rotorcraft load combination shall
  - (i) be operated only within the weight and centre of gravity limitations established in accordance with this Part;

- (ii) not be operated with an external-load weight exceeding that used in showing compliance with this Part;
  - (iii) not be operated at airspeeds greater than those established in accordance with this Part; and
- (b) the external-load operation under this Part shall not be conducted with a rotorcraft type certified in the restricted category
- (i) over a densely populated area;
  - (ii) in a congested airway; or
  - (iii) near a busy airport where passenger transport operations are conducted.
- (2) The rotorcraft load combination of Class D may be conducted only in accordance with the following guidelines:
- (a) the rotorcraft to be used shall be type certified under transport Category A for the operating weight, and provide hover capability with one engine inoperative at that operating weight and altitude;
  - (b) the rotorcraft shall be equipped to facilitate direct radio intercommunication among required crew members;
  - (c) the personnel-lifting device shall be approved by the Director; and
  - (d) the lifting device shall have an emergency release requiring two distinct actions.

**36.** (1) An applicant for a certificate shall prepare and submit a rotorcraft load combination flight manual for approval by the Director, which shall include

Rotorcraft  
load  
combination  
flight  
manual.

- (a) operating limitations, normal and emergency procedures, performance, and other information established under this Part;

- (b) the class of rotorcraft load combinations for which the airworthiness of the rotorcraft has been demonstrated in accordance with this Part;
- (c) any peculiarities discovered when operating particular rotorcraft load combinations;
- (d) precautionary advice regarding static electricity discharges for Class B, Class C, and Class D rotorcraft load combinations; and
- (e) any other information essential for the safe operation with external loads.

(2) A rotorcraft flight manual under this regulation may not include the limitation on height or speed envelope data.

Require-  
ments for  
markings  
and  
placards.

**37.** (1) All markings and placards on a rotorcraft shall be conspicuous and shall be engraved in such a manner that they cannot be easily erased, disfigured, or obscured.

(2) The markings and placards referred to in paragraph (1) shall include a placard

- (a) displayed in the cockpit or cabin, stating the class of rotorcraft load combination and the occupancy limitation for which the rotorcraft has been approved; and
- (b) with markings or instructions displayed next to the external load attaching means stating the maximum external-load approved.

Airworthi-  
ness  
certificate.

**38.** A valid airworthiness certificate for each rotorcraft type listed by a registration number and attached to the certificate shall be displayed in the cockpit when the rotorcraft is being used in operations conducted under these Regulations.

## PART IV

*Glider Towing*

- 39.** This Part applies to operations involving glider towing by aircraft. Applicability of Part IV.
- 40.** No person shall act as a tow pilot for a glider unless he holds at least a private pilot licence with a category rating for towing aircraft. Private pilot licence with a category rating for towing aircraft.
- 41.** No person shall operate an aircraft that is towing a glider unless such aircraft is equipped with a tow hook and release control system that meet the applicable airworthiness standards. Requirements for aircraft involved in towing.
- 42.** (1) No person shall act as a tow pilot for a glider unless he has Experience and training required for tow pilot.
- (a) logged at least 100 hours of pilot in command time in the same aircraft category, class, and type if applicable, as the tow aircraft;
- (b) received training and instructor endorsement in
- (i) techniques and procedures essential to the safe towing of gliders, including airspeed limitations;
- (ii) emergency procedures;
- (iii) signals used; and
- (iv) maximum angles of bank;
- (c) except as provided in paragraph (2), completed and endorsed at least 3 flights as the sole manipulator of the controls of an aircraft towing a glider or simulating glider-towing flight procedures while accompanied by a pilot who meets the requirements of this regulation; and

(d) within the preceding 12 months

(i) made at least 3 actual glider tows; or

(ii) made at least 3 flights as pilot in command of a glider towed by an aircraft.

(2) A person who before the coming into operation of this regulation made and logged 10 or more flights as pilot in command of an aircraft towing a glider in accordance with the authorisation of the Director need not comply with paragraph (1)(c) or (d).

#### PART V

##### *Banner Towing*

Applicabil-  
ity of Part V. **43.** This Part applies to operations involving the towing of banners or other signs, lit or unlit, by aircraft.

Banner-  
towing  
certificate or  
authorisa-  
tion. **44.** (1) No person shall conduct operations under this Part unless he has a banner-towing certificate or equivalent authorisation issued by the Director.

(2) A person wishing to apply for a banner-towing certificate shall

(a) apply to the Director in the prescribed form; and

(b) pay the prescribed fee.

(3) Where the Director is satisfied that an applicant satisfies the requirements under this Part, he may issue that person with the relevant certificate or authorisation referred to in paragraph (1).

(4) Notwithstanding paragraphs (1) and (3), a person who operates a helicopter under Part III of these Regulations may tow a banner using an external-load attaching means without a banner-towing certificate where that person has at least a Class B authorisation on his operating certificate.

**45.** (1) No person shall operate an aircraft that is towing a banner unless that aircraft is equipped with a tow hook and release control system that meet the applicable airworthiness standards.

Banner-towing requirements for aircraft.

(2) A pilot shall not conduct banner-towing operations in a helicopter unless such helicopter has a means to prevent the banner from becoming entangled in its tail rotor during all phases of flight, including autorotations.

**46.** (1) A pilot shall not conduct non-commercial banner-tow operations unless that person has a valid private pilot licence and a minimum of 200 hours pilot in command flight time.

Banner-tow operations experience and training requirements.

(2) A pilot shall not conduct banner-tow operations for compensation or hire without a commercial pilot licence and at least a valid Class E medical certificate.

(3) A pilot engaged in banner-tow operations shall demonstrate his competence to the Director by performing at least one pickup and drop off, of the maximum number of letters or panels that can be used.

(4) A demonstration referred to in paragraph (3) shall be observed from the ground to allow the inspector to evaluate the competence of any essential ground personnel as well as the flight operation.

**47.** (1) A banner-tow operation shall be conducted

Operating rules for banner-tow operations.

(a) in visual flight rules weather conditions; and

(b) between the designated hours of official sunrise and official sunset.

(2) A person shall not conduct banner-tow operations

(a) over congested areas or open air assemblies of persons lower than 1 000 feet; or

(b) lower than the minimum safe altitude requirements under the *Civil Aviation (Aircraft Operations) Regulations, 2007* in other cases.

2007/174.

(3) Notwithstanding paragraph (1), a helicopter may be used in banner-tow operations lower than the minimum prescribed altitude where such operations are conducted without jeopardizing the safety of persons or property on the ground.

(4) A person holding a certificate or equivalent authorisation under this Part shall not conduct banner-towing operations, unless prior approval is obtained from the airport operator.

(5) When conducting banner-tow operation at an airport

(a) with a control tower, the operator shall notify the personnel at the control tower of the time of the banner tow operation;

(b) within close proximity to an uncontrolled airport, the operator shall notify the appropriate airport personnel of the banner-towing operations.

(6) No person other than crew members directly involved in conducting banner-tow operations shall be carried on board the aircraft involved in towing a banner.

(7) When conducting banner-tow operations above congested areas, the pilot of the aircraft shall at all times exercise due care to minimize the risk of damage to persons or property on the ground in the event that the release of banner or tow rope becomes necessary.

(8) Where a banner-tow operation is completed, the tow-rope shall be dropped in a pre-designated area at least 500 feet from persons, buildings, parked automobiles, and aircraft.

(9) Where a tow plane lands with the tow-rope attached, the pilot of the aircraft shall at all times exercise due care to avoid trailing the tow-rope and endangering other aircraft, persons or property.

(10) A pilot conducting banner-tow operations shall have on board the aircraft a current copy of such banner-towing certificate or equivalent authorisation issued by the Director.

## PART VI

*Television and Movie Operations*

**48.** This Part applies to operations involving movie filming, appearance in flight in movies, and airborne direction or production of such filming, when those operations are conducted as part of a business enterprise or for compensation or hire.

Applicability of Part VI.

**49.** (1) For the purposes of this Part, "certificate" means an aerial television and movie certificate.

Aerial television and movie certificate or authorisation.

(2) No person shall conduct operations under this Part unless that person holds a certificate or equivalent authorisation issued by the Director.

(3) A person wishing to apply for a certificate shall

(a) apply to the Director in the prescribed form; and

(b) pay the prescribed fee.

(4) Where the Director is satisfied that a person meets the requirement under this Part, he may issue a certificate or authorisation under this Part.

**50.** An aircraft shall not be used in motion picture and television filming operation in the experimental category unless the aircraft has an certificate of airworthiness issued for the purpose of exhibition.

Aircraft requirements for a certificate.

**51.** A pilot shall not conduct television and movie operations on an aircraft unless he has

Television and movie operations on aircraft.

(a) a commercial pilot licence with ratings appropriate to the category and class of aircraft to be used under the terms of the waiver;

(b) at least 500 hours as pilot in command;

- (c) a minimum of 100 hours, in the category and class of aircraft to be used;
- (d) a minimum of 5 hours in the make and model of aircraft to be used under the waiver;
- (e) a statement of aerobatics competency for the operations to be performed if the pilot intends to perform aerobatics below 1 500 feet above ground level.

Waiver  
require-  
ments.

**52.** (1) An applicant referred to in regulation 49 may apply for a waiver of the requirements of these Regulations where filming sequences require an aircraft to be flown

- (a) in aerobatic flight below 1 500 feet above ground level;
- (b) over a congested area; or
- (c) in controlled airspace.

(2) When conducting any filming operation requiring a waiver, the person holding the certificate shall ensure that all reasonable efforts are made to confine spectators to designated areas.

(3) Where reasonable efforts have been taken to prevent unauthorised access to the airspace where manoeuvres are being performed and unauthorised persons or vehicles enter the airspace where manoeuvres are being performed during the filming production event, reasonable efforts shall be made to remove such unauthorised persons or vehicles.

(4) A person holding a certificate or waiver shall, before conducting filming operations, provide the Director with a schedule of events that lists the

- (a) identification of the aircraft; and
- (b) performers in the sequence of their appearance.

(5) Where manoeuvres are added or time changes are made to the schedule of events, such additions and changes shall be approved by the Director.

(6) A person holding a certificate or waiver under this Part shall develop, and have approved by the Director, a motion picture and television flight operations manual.

**53.** A motion picture and television flight operations manual referred to in regulation 52 shall contain

Contents of  
a motion  
picture and  
television  
flight  
operations  
manual.

- (a) the business name of the applicant, whether a company or organisation;
- (b) address and telephone number of applicant;
- (c) a list of pilots to be employed during the filming operations, including the number on the pilot licence, grade and class and date of medical certificates;
- (d) a list of the make and model of aircraft to be used in the filming operations;
- (e) the distribution and revision procedures for the manual to ensure that all manuals are kept current;
- (f) the procedures to ensure that no person, except those persons consenting to be involved and necessary for the filming production, are allowed within 500 feet of the filming production area;
- (g) the area of operation to be used during the term of the waiver;
- (h) the procedures for the submission, within 3 days of scheduled filming, of the written plan of activities to the Director containing
  - (i) the dates and times for all flights;
  - (ii) the name and telephone number of the person responsible for the filming production event;
  - (iii) the make and model of aircraft to be used and type of certificate of airworthiness, including category;

- 
- (iv) the names of pilots involved in the filming production event;
  - (v) a statement that permission has been obtained from property owners or local officials to conduct the filming production operations;
  - (vi) the person in whose favour the waiver was granted or their personal representative; and
  - (vii) a general outline or summary of the production schedule, including maps or diagrams of the specific filming location, where necessary;
- (i) the requirements and procedures that will be used to obtain permission from property owners or any public authority such as the Police Force, or the Fire Service, as appropriate, for the conduct of all filming operations when using the waiver;
  - (j) the method of security that will be used to exclude all persons not directly involved with the filming operation from the location;
  - (k) the mechanism that will be used to stop film operations when unauthorised persons, vehicles, or aircraft enter the operations area, or for any other reason, in the interest of safety;
  - (l) the procedures to be used when briefing personnel of the risks involved, emergency procedures, and safeguards to be followed during the film production operations;
  - (m) the procedures to ensure that the required inspections will be conducted;
  - (n) the procedures to provide communications capability with all participants during the actual operation and filming; and
  - (o) the procedures for notification and reporting of accidents.

## PART VII

*Sightseeing Flights*

**54.** This Part shall apply to operations involving the carriage of persons for viewing natural formations or man-made objects on the ground when filming operations are conducted as part of a business enterprise or for compensation or hire.

Applicability of Part VII.

**55.** (1) No person shall conduct operations under this Part unless that person has a sightseeing flight certificate or equivalent authorisation issued by the Director.

Sightseeing flight certificate or authorisation.

(2) A person wishing to apply for a sightseeing flight certificate shall

- (a) apply to the Director in the prescribed form; and
- (b) pay the prescribed fee.

(3) Where the Director is satisfied that a person meets the requirements under this Part, he may issue the sightseeing certificate or equivalent qualification to each applicant who qualifies for it under the provisions of this Part.

(4) An air operator under this Part shall hold an air operator certificate issued under the provisions of the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007*.

2007/173.

**56.** The experience and training requirements under the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007* shall apply to all operations under this Part.

Experience and training requirements of air operator certification. 2007/173.

**57.** The operating rules requirements under the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007* shall apply to all operations under this Part.

Operating rules for sightseeing flight certificate or authorisation. 2007/173.

## PART VIII

### *Fish Spotting*

Applicabil-  
ity of  
Part VIII.

**58.** This Part shall apply to operations involving location, tracking and reporting of fish and fish schools, when those operations are conducted as part of a business enterprise or for compensation or hire.

Fish  
spotting  
certificate or  
authorisa-  
tion.

**59.** (1) No person shall conduct operations under this Part unless that person has a fish spotting certificate or equivalent authorisation issued by the Director.

(2) A person wishing to apply for a fish spotting certificate shall

(a) apply to the Director in the prescribed form; and

(b) pay the prescribed fee.

(3) Where the Director is satisfied that a person meets the requirements under this Part he may issue a fish spotting certificate or equivalent authorisation to each applicant who qualifies for it under the provisions of this Part.

Operating  
rules for fish  
spotting  
certificate or  
authorisa-  
tion.  
2007/173.

**60.** (1) An operator under this Part shall not conduct operations that endanger persons or property on the ground or aircraft in flight.

(2) The minimum cloud clearance requirements and minimum altitude requirements under the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007* shall not apply to such persons as the Director may approve, and the Director may prescribe different cloud clearance and altitude clearance minima as part of an authorisation under this Part.

## PART IX

### *Traffic reporting*

Applicabil-  
ity of  
Part IX.

**61.** This Part shall apply to operations involving the observation of and reporting on vehicular traffic conditions on the highways and streets when conducted by an airman in an aircraft in flight not designated as solely for public use.

**62.** (1) A person conducting operations under this Part shall have a vehicular traffic reporting certificate or equivalent authorisation issued by the Director.

Vehicular  
traffic  
reporting  
certificate or  
authorisa-  
tion.

(2) A person wishing to apply for a vehicular traffic reporting certificate shall

- (a) apply to the Director in the prescribed form; and
- (b) pay the prescribed fee.

(3) Where the Director is satisfied that a person satisfies all the requirements under this Part he may issue a vehicular traffic reporting certificate or equivalent authorisation.

(4) An operator under this Part shall not conduct operations that endanger persons or property on the ground or aircraft in flight.

(5) The minimum cloud clearance requirements and minimum altitude requirements under the *Civil Aviation (Air Operator Certification and Administration) Regulations, 2007* shall not apply to such persons as the Director may approve, and the Director may prescribe different cloud clearance and altitude clearance minima as part of an authorisation under this Part.

2007/173.

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

Director  
may make  
standards or  
amend  
standards.

(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.