

# Schedule 11

## Aerial Work Operations

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**SUBPART A: GENERAL****11.001 APPLICABILITY**

- (a) This Schedule prescribes the requirements of the Bahamas for those operators and operations that engage in aerial work.
- (b) This Schedule is applicable to persons and organizations that conduct aerial work operations within the Bahamas and the persons performing duties on their behalf..
- (c) All persons that conduct aerial work in the Bahamas must comply with the applicable airworthiness and operational requirements of the other Schedules of this set of aviation regulations, except where this Schedule—
  - (1) Grants relief from those requirements; or
  - (2) Specifies additional requirements.

**11.005 DEFINITIONS**

- (a) For the purpose of this Schedule, the following definitions shall apply—

*Note: Additional aviation-related terms are defined in Schedule 1 of these regulations.*

**Accountable manager (aerial work).** The manager who has corporate authority for ensuring that all AWC functions can be financed and carried out to the standard required by the Authority.

**Aerial Exhibition.** The operation of an aircraft for the purposes of performing acts intended for spectators on the ground. This exhibition may include aerobatic maneuvers, if authorised.

**Aerial work.** An aircraft operation in which an aircraft is used for specialised services that are not defined as general aviation or commercial air transport operations.

**Aerobatic flight.** An intentional manoeuvre involving an abrupt change in an aircraft's attitude, an abnormal attitude, or abnormal acceleration, not necessary for normal flight.

**Agricultural application.** The operation of an aircraft for the purpose of—

- (i) Dispensing any economic poison,
- (ii) Engaging in dispensing activities directly affecting agriculture, horticulture, or forest preservation, but not including the dispensing of live insects.

**Banner.** An advertising medium supported by a temporary framework attached externally to the aircraft and towed behind the aircraft.

**Banner Towing.** The operation of an aircraft for the purpose of towing or displaying an advertisement in-flight.

**Competency in civil aviation.** This phrase means that an individual shall have a technical qualification and management experience acceptable to the Authority for the position served.

**Economic poison.** Any substance or mixture of substances intended for—

- (i) Preventing, destroying, repelling, or mitigating any insects, rodents, nematodes, fungi, weeds, and other forms of plant or animal life or viruses, except viruses on or in living human beings or other animals, which the Bahamas may declare to be a pest, and
- (ii) Use as a plant regulator, defoliant or desiccant.

**Fish spotting.** The operation of an aircraft for the purpose of locating, tracking, and reporting on the location of fish and fish schools, when those operations are conducted as part of a business enterprise or for compensation or hire.

**Glider Towing** The operation of an aircraft for the purpose of towing gliders to a launching altitude or to another landing location.

**Movie.** This term includes film, videos, and live broadcast in any format, and the preparation and rehearsal for those operations.

**Operations Specifications.** Formal documents issued by the Authority as a part of an approved organization's certificate to define the authorizations and limitations conveyed by the certificate.

**Private Agricultural Application.** The operation of an aircraft for the purpose of agricultural application over a property where the pilot is—

- (i) The owner or lessee, or
- (ii) Has ownership or other property interest in the crop located on that property.

**Rotorcraft load combinations.** Configurations for external loads carried by rotorcraft—

- (i) Class A – external load fixed to the rotorcraft, cannot be jettisoned, and does not extend below the landing gear, used to transport cargo.
- (ii) Class B – external load suspended from the rotorcraft, which can be jettisoned, and is transported free of land or water during rotorcraft operations.
- (iii) Class C – external load suspended from the rotorcraft, which can be jettisoned, but remains in contact with land or water during rotorcraft operation.
- (iv) Class D - external load suspended from the rotorcraft for the carriage of persons.

**Sight-Seeing Flights.** The operation of an aircraft involving the carriage of persons for viewing natural formations or man-made objects on the ground when those operations are conducted as part of a business enterprise or for compensation or hire, and—

- (i) The flight is unquestionably advertised as "sight-seeing," and
- (ii) The flight returns to the aerodrome of departure without having landed at any other aerodrome, and
- (iii) The certificated passenger capacity of the aircraft does not exceed 9 passengers.

*Note: Any other passenger carrying flight for remuneration, hire or valuable consideration must be conducted under an Air Operator Certificate (AOC).*

**Special Purpose Patrolling.** The operation of an aircraft for the purpose of low-level patrolling for potential problems of power lines, pipe lines and canals.

**Traffic Watch.** The operation of an aircraft for the purpose of observation of, and reporting on, vehicular traffic conditions on the highways and streets.

**TV and Movie Filming.** The operation of an aircraft for the purpose of 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.

## 11.010 ACRONYMS

(a) The following acronyms are used in this Schedule:—

- AGL – Above Ground Level
- AWC – Aerial Work Certificate
- IFR – Instrument Flight Rules
- PIC – Pilot In Command

## SUBPART B: AWC CERTIFICATE

### 11.015 APPLICABILITY

(a) This Subpart prescribes the requirements that are applicable to the certificate issued to an Aerial Work Operator.

### 11.020 CERTIFICATE REQUIRED

(a) No person may operate in aerial work operations without, or in violation of, an AWC certificate and operations specifications issued under this Schedule.

**11.025 CONTENTS OF AN AWC CERTIFICATE**

- (a) The AWC certificate will consist of two documents—
  - (1) A certificate for public display signed by the Authority, and
  - (2) Operations specifications containing the terms, conditions, and authorizations applicable to the AWC certificate.
- (b) The AWC certificate will contain—
  - (1) The organization's name and location (main place of business);
  - (2) The date of issue and period of validity for each page issued;
  - (3) The terms of approval, including—
    - (i) Authorised areas or locations of operations; and
    - (ii) Operations specifications, as applicable;
  - (4) Other authorizations, approvals and limitations issued by the Authority in accordance with the standards which are applicable to the operations conducted by the AWC holder.

**11.030 DURATION OF CERTIFICATE**

- (a) Except as shown in paragraph (b), the Authority will issue an AWC certificate which expires, unless surrendered, suspended, or revoked—
  - (1) On the last day of the 12th calendar month from the month the certificate was issued;
  - (2) Except as provided in paragraph (b), on the date that any change in ownership of the aerial work organization occurs;
  - (3) On the date of any significant change in the AWS holder's capabilities occurs; or
  - (4) Upon notice by the Authority that the AWC holder has failed for more than 60 consecutive days to maintain the required equipment, aircraft, or personnel.
- (b) A change in the ownership of an Aerial Work Operator does not terminate the AWC holder's certificate if, within 30 consecutive days—
  - (1) The AWC holder makes notification and, if appropriate, amendment to the certificate; and
  - (2) No significant change in the facilities, operating personnel, or types of operations is involved.

**11.035 APPLICATION FOR ISSUANCE OR AMENDMENT**

- (a) An applicant for an AWC certificate, including operations specifications shall apply at least 30 calendar days before the beginning of any proposed aerial work operations.
- (b) Each applicant for an AWC certificate and operations specification shall provide the application in the correct form and manner prescribed by the Authority.
- (c) The Authority will issue to an applicant who meets the requirements and is approved by the Authority—
  - (1) An AWC certificate containing all business names included on the application under which the AWC holder may conduct operations and the address of each business office used by the organization; and
  - (2) Operations specifications, issued by the Authority to the AWC holder, outlining the pertinent authorizations.
- (d) The Authority may issue an AWC certificate to an applicant whose business office or primary location or both are located in the Bahamas.

**11.040 AMENDMENT OF AN AWC CERTIFICATION**

- (a) At any time, the Authority may amend an AWC certificate—
  - (1) On the Authority's own initiative, under applicable Bahamas legislation; or
  - (2) Upon timely application by the AWC holder.

- (b) The AWC holder shall file an application to amend an AWC certificate at least 20 working days prior to the applicant's proposed effective amendment date unless a different filing period is approved by the Authority.

**11.045 DISPLAY OF CERTIFICATE**

- (a) The holder of an AWC certificate shall display that certificate in a place in the school that is normally accessible to the public and that is not obscured.

**11.050 AVAILABILITY OF CERTIFICATE**

- (a) Each holder of an agricultural application authorization shall keep that certificate at its home base and shall present it for inspection on the request of the Authority or any government law enforcement officer.

**11.055 CARRYING OF CERTIFICATE**

- (a) No person may operate an aircraft unless a facsimile of the agricultural application authorization is carried on that aircraft.

**11.060 CERTIFICATE PRIVILEGES**

- (a) The AWC holder may advertise and conduct aerial work operations in accordance with the certificate and any ratings that it holds.

**11.065 LOSS OF CERTIFICATE PRIVILEGES**

- (a) The Authority may deny, suspend, revoke, or terminate a certificate under this Schedule if the Authority finds that the AWC holder—
- (1) Does not meet, or no longer meets, the requirements of this Schedule for the certificate and/or ratings held;
  - (2) Employs or proposes to employ a person who controlled or was previously employed in a management or supervisory position in an organization has had its certificate revoked, suspended, or terminated within the previous 3 calendar years; or
  - (3) Application provided was incomplete or inaccurate, or contained fraudulent or false information.
- (b) An AWC holder whose certificate has been surrendered, suspended, revoked, or terminated shall promptly—
- (1) Remove all indications, including signs, wherever located, that the AWC holder was certified by the Authority; and
  - (2) Notify all advertising agents, and advertising media employed by the AWC holder to cease all advertising indicating that the organization is certified by the Authority.
  - (3) Return the certificate to the Authority within 5 working days after being notified that the certificate is suspended, revoked, or terminated.

**SUBPART C: CERTIFICATION****11.070 APPLICABILITY**

- (a) This Subpart prescribes the general requirements that are applicable to the certification of an Aerial Work Operator.

**11.075 INITIAL CERTIFICATION REQUIRED**

- (a) Prior to the issuance of an AWC certificate, the applicant must be originally certificated in accordance with the system of certification prescribed by the Authority.
- (b) The approval of an organization as an AWC by the Authority shall be dependent upon the applicant demonstrating compliance with the requirements of this Schedule.

- (c) The Authority may issue an applicant an AWC certificate and operations specifications if the applicant demonstrates compliance with the requirements of this Schedule.

#### **11.080 CATEGORIES OF AERIAL WORK OPERATORS**

- (a) The Authority may approve an applicant to operate in one or more of the following category ratings of aerial work—
- (1) Agricultural Application (Economic Poisons)
  - (2) Agricultural Application (Fertilizing & Seeding)
  - (3) Agricultural Application (Fire-Fighting)
  - (4) Private Agricultural Application
  - (5) External Load (Rotorcraft)
  - (6) External Load (Airship)
  - (7) External Load (Fire-Fighting)
  - (8) Aerial Advertising (Skywriting, Banner Towing Airborne Signs and Public Address Systems)
  - (9) Glider Towing
  - (10) Passenger Sight-Seeing
  - (11) Parachute Jumping
  - (12) Traffic Watch
  - (13) TV and Movie Filming
  - (14) Aerial Surveying (photography, mapping and oil mineral exploration)
  - (15) Special Purpose Patrolling
  - (16) Aerial Exhibition
  - (17) Weather Control (cloud seeding)
  - (18) Fish Spotting
  - (19) Other aviation operations determined by the Authority to fall under the definition of aerial work.

#### **11.085 WAIVERS**

- (a) The Authority may issue an applicant or waivers from any of the requirements of this Schedule.
- (b) The applicant for a deviation or waiver under this section shall provide information acceptable to the Authority that shows—
- (1) Justification for the deviation or waiver; and
  - (2) That the deviation or waiver, when used for the aerial work operation, will not adversely affect the safety of the public or the personnel involved in the operation.

### **SUBPART D: SURVEILLANCE & ON-GOING VALIDATION**

#### **11.090 APPLICABILITY**

- (a) This Subpart prescribes the general requirements that are applicable to the on-going validation of Aerial Work Operators.

#### **11.095 INSPECTIONS & OBSERVATIONS**

- (a) The Authority may, at any time, inspect an AWC to determine the organization's compliance with this Schedule.
- (b) The AWC holder and personnel shall allow the authorised representative of the Authority unrestricted access to all locations, equipment, documents and personnel, including operations in progress, in the accomplishment of these inspections and observations.

- (c) The continued validity of the original certification approval shall depend upon the AWC holder remaining in compliance with the requirements of this Schedule.

#### **11.100 CONTINUOUS QUALIFICATION**

- (a) The AWC holder shall not conduct aerial work operations without the personnel, facilities, equipment and aircraft continuously meets the requirements and the standards specified in the organization's operations specifications.

#### **11.105 MANDATORY REVISIONS TO OPERATIONAL PRACTICES**

- (a) The Authority may require the AWC holder to make revisions to operational practices, if it determines that other practices are necessary for public safety.
- (b) If the Authority requires an AWC holder to make revisions to their operational practices, these revisions should be implemented as soon as possible.
- (c) If the AWC holder does not make those required revisions within 20 consecutive days, the Authority may suspend, revoke, or terminate the organization's certificate.

#### **11.110 CHANGES REQUIRING NOTICE TO THE AUTHORITY**

- (a) The AWC holder shall notify the Authority prior to any of the following changes—
  - (1) The accountable manager.
  - (2) The Chief Pilot
  - (3) The maintenance arrangements
  - (4) Relocation of principal or satellite operations bases
- (b) The Authority may prescribe the conditions under which the AWC holder may operate during such changes unless the Authority determines that the approval should be suspended.
- (c) The Authority may suspend an AWC certificate for failure to make these required notifications.

#### **11.115 RENEWAL OF CERTIFICATES & RATINGS**

- (a) An AWC holder may apply for renewal of the certificate and ratings within 30 days preceding the month that their certificate is set to expire.
- (b) The Authority may renew an AWC certificate and ratings if the Authority determines the AWC holder's personnel, aircraft, facility and aerodrome (if applicable), and quality meet the requirements.

### **SUBPART E: AWC ADMINISTRATION**

#### **11.120 APPLICABILITY**

- (a) This Subpart prescribes the general requirements that are applicable to the on-going administration of an Aerial Work Operator.

#### **11.125 MANAGEMENT PERSONNEL REQUIRED FOR AWC ORGANIZATIONS**

- (a) The AWC holder shall have an accountable manager, acceptable to the Authority, who has corporate authority for ensuring that it is in compliance with the requirements for an AWC.
- (b) When providing approved aerial work operations involving more than two pilots, the AWC holder shall have qualified person, with proven competency in civil aviation, available and serving as the Chief Pilot or an equivalent: post.

#### **11.130 CHIEF PILOT RESPONSIBILITIES**

- (a) The Chief Pilot provides overall operational and testing requirements.
- (b) During aerial work operations, the AWC holder shall ensure that the chief pilot is available—



- (1) At the aerodrome, or
- (2) By telephone, radio, or other electronic means.

**11.135 PRINCIPAL BUSINESS OFFICE**

- (a) An AWC holder shall maintain a principal business office that is physically located at the address shown on the AWC certificate.
- (b) An AWC holder may not make any change in the organization's principal business address unless the change is approved by the Authority in advance.
- (c) The Authority may prescribe the conditions under which the AWC may operate while it is changing its location or housing facilities.

**11.140 SATELLITE LOCATIONS**

- (a) The AWC holder may conduct aerial work operations authorised by the Authority at a satellite location if—
  - (1) The Authority has been notified of the satellite location operations; and
  - (2) The Chief Pilot is available by telephone, radio or other electronic means.

**11.145 ADVERTISING LIMITATIONS**

- (a) The AWC holder may not—
  - (1) Make any statement relating to the AWC certificate and operations specifications that is false or designed to mislead any person contemplating the employment of that AWC holder.
  - (2) Advertise that the AWC holder is certified by the Authority unless that advertisement contains only the authorization granted by the Authority.

**SUBPART F: AWC ADMINISTRATIVE REQUIREMENTS****11.150 APPLICABILITY**

- (a) This Subpart prescribes the general administrative requirements that are applicable an AWC holder.
- (b) If an administrative requirement is not included in this Subpart for a specific category of AWC holder, there are none applicable to that category.

**11.155 RECORDS: COMMERCIAL AGRICULTURAL AIRCRAFT OPERATOR**

- (a) Each holder of a commercial agricultural application authorization shall maintain and keep current, at the home base designated in its application, the following records—
  - (1) The name and address of each person for whom agricultural aircraft services were provided;
  - (2) The date of the service;
  - (3) The name and quantity of the material dispensed for each operation conducted; and
  - (4) The name, address, and certificate number of each pilot used in agricultural aircraft operations and the date that pilot met the knowledge and skill requirements of this Subpart.
- (b) The records required by this Section must be kept for at least 12 months.

**11.160 CONTENTS OF A MOTION PICTURE & TELEVISION FLIGHT OPERATIONS MANUAL**

- (a) Each Motion Picture and Television Flight Operations Manual shall contain at least the following—
  - (1) *Company Organization*.
    - (i) Business name, address, and telephone number of applicant.
    - (ii) List of pilots to be used during the filming, including their pilot certificate numbers, grade, and class and date of medical.
    - (iii) List of aircraft by make and model.

- (2) *Distribution and Revision.* Procedures for revising the manual to ensure that all manuals are kept current.
- (3) *Persons Authorised.* Procedures to ensure that no persons, except those persons consenting to be involved and necessary for the filming production, are allowed within 500 feet of the filming production area.
- (4) *Area of Operations.* The area that will be used during the term of the waiver.
- (5) *Plan of Activities.* Procedures for the submission, within three days of scheduled filming, a written plan of activities to the Authority containing at least the following—
  - (i) Dates and times for all flights.
  - (ii) Name and phone number of person responsible for the filming production event.
  - (iii) Make and model of aircraft to be used and type of airworthiness certificate, including category
  - (iv) Name of pilots involved in the filming production event.
  - (v) A statement that permission has been obtained from property owners and/or local officials to conduct the filming production event.
  - (vi) Signature of waiver holder or a designated representative.
  - (vii) A general outline, or summary, of the production schedule, to include maps or diagrams of the specific filming location, if necessary.
- (6) *Permission to Operate.* Requirements and procedures that the waiver holder will use to obtain permission from property owners and/or local officials (e.g., police, fire departments, etc.) as appropriate for the conduct of all filming operations when using the waiver.
- (7) *Security.* Method of security that will be used to exclude all persons not directly involved with the operation from the location.
 

*Note: This should also include the provision that will be used to stop activities when unauthorized persons, vehicles, or aircraft enter the operations area, or for any other reason, in the interest of safety.*
- (8) *Briefing of Pilot/Production Personnel.* Procedures to brief personnel of the risks involved, emergency procedures, and safeguards to be followed during the filming production event.
- (9) *Certification/Airworthiness.* Procedures to ensure that required inspections will be conducted.
- (10) *Communications.* Procedures to provide communications capability with all participants during the actual operation and filming.
 

*Note: The applicant can use oral, visual, or radio communications as long as it keeps the participants continuously apprised of the current status of the operation.*

## **SUBPART G: PERSONNEL & QUALIFICATION REQUIREMENTS**

### **11.165 APPLICABILITY**

- (a) This Subpart prescribes the personnel and qualification requirements that are applicable an AWC holder.
- (b) If personnel and/or qualification requirements is not included in this Subpart for a specific category of AWC holder, there are none applicable to that category.

### **11.170 GENERAL PERSONNEL REQUIREMENTS: AGRICULTURAL APPLICATION**

- (a) *Each person.* The holder of an agricultural application authorization shall insure that each person used in the holder's agricultural aircraft operation is informed of that person's duties and responsibilities.
- (b) *Supervisors.* No person may supervise an agricultural aircraft operation unless he or she has met the knowledge and skill requirements for the type of aerial work.
- (c) Pilots.

- (1) A private operator-pilot applicant shall hold a current Bahamas private, commercial, or airline transport pilot certificate and be properly rated for the aircraft to be used.
- (2) A commercial operator-pilot applicant shall hold, or have available the services of at least one pilot who holds a current commercial or airline transport pilot certificate issued by the Authority and who is properly rated for the aircraft to be used.

### **11.175 PILOT QUALIFICATION: AGRICULTURAL APPLICATION**

- (a) *Pilot in command.* No person may act as pilot in command of an aircraft operated under this Subpart unless that pilot—
  - (1) Holds a pilot certificate and rating prescribed by this Subpart as appropriate to the type of operation conducted; or
  - (2) Has demonstrated to the holder of the agricultural application authorization conducting the operation, or to a supervisor designated by that certificate holder, that he or she possesses the knowledge and skill requirements of paragraph (b).
- (b) Each pilot shall show that it has satisfactory knowledge and skill of the following agricultural aircraft operations—
  - (1) Knowledge—

*Note: With the AWC holder has an authorization containing a prohibition against the dispensing of economic poisons, a demonstration knowledge specific to economic poisons is not required.*

    - (i) Steps to be taken before starting operations, including a survey of the area to be worked.
    - (ii) 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 poisons and chemicals.
    - (iv) Primary symptoms of poisoning of persons from economic poisons, the appropriate emergency measures to be taken, and the location of poison control centres.
    - (v) Performance capabilities and operating limitations of the aircraft to be used.
    - (vi) Safe flight and application procedures.
  - (2) Skill in 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 takeoffs (aeroplanes and gyroplanes only).
    - (ii) Approaches to the working area.
    - (iii) Flare-outs.
    - (iv) Swath runs.
    - (v) Pull-ups and turnarounds.
    - (vi) Rapid deceleration (quick stops) in helicopters only.
- (c) For operations over congested areas, each pilot in command must have at least—
  - (1) 25 hours of pilot-in-command flight time in the make and basic model of the aircraft, including at least 10 hours within the preceding 12 calendar months; and
  - (2) 100 hours of flight experience as pilot in command in dispensing agricultural materials or chemicals.

### **11.180 EXTERNAL LOAD PERSONNEL**

- (a) An applicant shall hold, or have available the services of at least one person who holds a current commercial or airline transport pilot certificate issued by the Authority with a rating appropriate for the rotorcraft to be used.
- (b) An applicant shall designate one pilot, who may be the applicant, as chief pilot for rotorcraft external-load operations.

- (c) An applicant may designate qualified pilots as assistant chief pilots to perform the functions of the chief pilot when the chief pilot is not readily available.
- (d) The chief pilot and assistant chief pilots must be acceptable to the Authority and each must hold a current Commercial or Airline Transport Pilot Certificate, with a rating appropriate for the rotorcraft to be used.
- (e) The holder of a Rotorcraft External-Load Operator Certificate shall report any change in designation of chief pilot or assistant chief pilot immediately to the Authority.
- (f) A newly designated chief pilot shall comply with the knowledge and skill requirements of this Subpart within 30 days or the operator may not conduct further operations under the Rotorcraft External-Load Operator Certificate, unless otherwise authorised by the Authority.

#### **11.185 EXTERNAL LOAD: PILOT MEMBER QUALIFICATION**

- (a) No certificate holder may use, nor may any person serve, as a pilot in helicopter external load operations unless that person—
  - (1) Has successfully demonstrated to the Authority the knowledge and skill with respect to the rotorcraft/load combination; and
  - (2) Has in his or her personal possession a letter of competency or an appropriate logbook entry indicating compliance with paragraph (a)(1) of this section.
- (b) No AOC holder may use, nor may any person serve as, a crew member or other operations personnel in Class D operations unless, within the preceding 12 calendar months, that person has successfully completed either an approved initial or a recurrent training program.
- (c) Notwithstanding the provisions of paragraph (b) of this section, 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 calendar months need not undergo recurrent training.

#### **11.190 PILOT QUALIFICATION: GLIDER TOWING**

- (a) No person may act as a tow pilot for a glider unless that person has at least a private pilot certificate with a category rating for the tow aircraft.
- (b) No person may act as a tow pilot for a glider unless that person has—
  - (1) Logged at least 100 hours of pilot-in-command time in same aircraft category, class, and type, if applicable, as the tow aircraft;
  - (2) Received training in and instructor endorsement for—
    - (i) The 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.
  - (3) Except as provided in paragraph (b) of this section, has completed and had endorsed at least three 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 section; and
  - (4) Within the preceding 12 months has—
    - (i) Made at least three actual glider tows; or
    - (ii) Made at least three flights as pilot in command of a glider towed by an aircraft.
- (c) Any person who before January 31, 2009, made and logged 10 or more flights as PIC of an aircraft towing a glider in accordance with authorization of the Authority need not comply with paragraphs (a)(3) and (a)(4) of this section.

**11.195 PILOT QUALIFICATION: GLIDER TOWING**

- (a) For nonrevenue flights, the pilot of the tow aircraft shall hold at least a valid private pilot certificate and have a minimum of 200 hours PIC time.
- (b) When banner tow operations are conducted for compensation or hire, the pilot shall have at least a—
  - (1) Commercial pilot certificate (instrument rating not required); and
  - (2) Valid second class medical certificate.
- (c) All pilots engaged in banner towing operations shall demonstrate competence to the Authority by performing at least one pickup and drop of the maximum number of letters (panels) to be used by the certificate holder.

*Note: This demonstration should be observed from the ground to allow the inspector to evaluate the competence of any essential ground personnel as well as the flight operation.*

**11.200 PILOT QUALIFICATION: TV & MOVIE FILMING**

- (a) No pilot may conduct television and movie operations unless he or she has—
  - (1) A commercial licence with ratings appropriate to the category and class aircraft to be used under the terms of the waiver.
  - (2) At least 500 hours as PIC.
  - (3) A minimum of 100 hours in the category and class of aircraft to be used.
  - (4) A minimum of five hours in the make and model aircraft to be used under the waiver.
  - (5) If the pilot intends to perform aerobatics below 1,500 AGL, a Statement of Aerobatics Competency for the operations to be performed.

**SUBPART H: AIRCRAFT & EQUIPMENT REQUIREMENTS****11.205 APPLICABILITY**

- (a) This Subpart prescribes the additional aircraft and equipment requirements that are applicable an AWC holder.
- (b) If there are no special aircraft and equipment requirements is included in this Subpart for a specific category of AWC holder, there are none applicable to that category.

**11.210 AIRCRAFT REQUIREMENTS: AGRICULTURAL APPLICATION**

- (a) The AWC holder of an agricultural application authorization shall have at least one certified and airworthy aircraft, equipped for agricultural operation.
- (b) Except for helicopters, no person may operate an aircraft over a congested area while engaged in agricultural application unless there is the capability to jettison at least one-half of the aircraft's maximum authorised load of agricultural material within 45 seconds.
- (c) If an aircraft designed or modified for agricultural application 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.

**11.215 HELICOPTER REQUIRED: EXTERNAL LOAD**

- (a) An applicant must have the exclusive use of at least one rotorcraft that—
  - (1) Was type certified under, and meets the requirements of, the several parts of these regulations which prescribe requirements for rotorcraft external-load operations;
  - (2) Complies with the certification provisions in this Subpart that apply to the rotorcraft-load combinations for which authorization is requested; and
  - (3) Has a valid standard or restricted category airworthiness certificate.

**11.220 FLIGHT CHARACTERISTICS REQUIREMENTS: EXTERNAL LOAD**

- (a) The applicant must demonstrate to the Authority, by performing the following operational flight checks, that the rotorcraft-load combination has satisfactory flight characteristics, unless these operational flight checks have been demonstrated previously and the rotorcraft-load combination flight characteristics were satisfactory. For the purposes of this demonstration, the external-load weight (including the external-load attaching means) is the maximum weight for which authorization is requested.
- (b) *Class A rotorcraft-load combinations:* The operational flight check must consist of at least the following manoeuvres—
- (1) Take off and landing.
  - (2) Demonstration of adequate directional control while hovering.
  - (3) Acceleration from a hover.
  - (4) Horizontal flight at airspeeds up to the maximum airspeed for which authorization is requested.
- (c) *Class B and D rotorcraft-load combinations:* The operational flight check must consist of at least the following manoeuvres—
- (1) Pickup of the external load.
  - (2) Demonstration of adequate directional control while hovering.
  - (3) Acceleration from a hover.
  - (4) Horizontal flight at airspeeds up to the maximum airspeed for which authorization is requested.
  - (5) Demonstrating appropriate lifting device operation.
  - (6) Manoeuvring of the external load into release position and its release, under probable flight operation conditions, by means of each of the quick-release controls installed on the rotorcraft.
- (d) *Class C rotorcraft-load combinations:* For Class C rotorcraft-load combinations used in wire-stringing, cable-laying, or similar operations, the operational flight check must consist of the manoeuvres, as applicable, prescribed in paragraph (c) of this section.

**11.225 STRUCTURES & DESIGN: EXTERNAL LOAD**

- (a) External-load attaching means. Each external-load attaching means shall be approved by the Authority.
- (b) Quick release devices. Each quick release device means shall be approved by the Authority.
- (c) Weight and centre of gravity—
- (1) Weight. The total weight of the rotorcraft-load combination must not exceed the total weight approved for the rotorcraft during its type certification.
  - (2) Centre of gravity. The location of the centre of gravity must, for all loading conditions, be within the range established for the rotorcraft during its type certification. For 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.

**11.230 OPERATING LIMITATIONS: EXTERNAL LOAD**

- (a) In addition to the operating limitations set forth in the approved Rotorcraft Flight Manual, and to any other limitations the Authority may prescribe, the operator shall establish at least the following limitations and set them forth in the Rotorcraft-Load Combination Flight Manual for rotorcraft-load combination operations—
- (1) The rotorcraft-load combination may be operated only within the weight and centre of gravity limitations established in accordance with this Subpart.
  - (2) The rotorcraft-load combination may not be operated with an external load weight exceeding that used in showing compliance with this Subpart.
  - (3) The rotorcraft-load combination may not be operated at airspeeds greater than those established in accordance with this Subpart.

- (4) No person may conduct an external-load operation under this Schedule with a rotorcraft type certified in the restricted category over a densely populated area, in a congested airway, or near a busy aerodrome where passenger transport operations are conducted.
- (5) The rotorcraft-load combination of Class D may be conducted only in accordance with the following:
  - (i) The rotorcraft to be used must have been type certified under transport Category A for the operating weight and provide hover capability with one engine inoperative at that operating weight and altitude.
  - (ii) The rotorcraft must be equipped to allow direct radio intercommunication among required crew members.
  - (iii) The personnel lifting device must be approved by the Authority.
  - (iv) The lifting device must have an emergency release requiring two distinct actions.

#### **11.235 ROTORCRAFT-LOAD COMBINATION FLIGHT MANUAL: EXTERNAL LOAD**

- (a) The applicant must prepare a Rotorcraft-Load Combination Flight Manual and submit it for approval by the Authority. The limiting height-speed envelope data need not be listed as operating limitations. The manual shall set forth—
  - (1) Operating limitations, procedures (normal and emergency), performance, and other information established under this Subpart;
  - (2) The class of rotorcraft-load combinations for which the airworthiness of the rotorcraft has been demonstrated in accordance with this Subpart; and
  - (3) In the information section of the Rotorcraft-Load Combination Flight Manual—
    - (i) Information on any peculiarities discovered when operating particular rotorcraft-load combinations;
    - (ii) Precautionary advice regarding static electricity discharges for Class B, Class C, and Class D rotorcraft-load combinations; and
    - (iii) Any other information essential for safe operation with external loads.

#### **11.240 MARKINGS & PLACARDS: EXTERNAL LOAD**

- (a) The following markings and placards must be displayed conspicuously and must be such that they cannot be easily erased, disfigured, or obscured—
  - (1) A placard (displayed in the cockpit or cabin) stating the class of rotorcraft-load combination and the occupancy limitation for which the rotorcraft has been approved.
  - (2) A placard, marking, or instruction (displayed next to the external-load attaching means) stating the maximum external load approved.

#### **11.245 AIRWORTHINESS CERTIFICATION: EXTERNAL LOAD**

- (a) A Rotorcraft External-Load Operator Certificate is a current and valid airworthiness certificate for each rotorcraft type and listed by registration number on a list attached to the certificate, when the rotorcraft is being used in operations conducted under this Schedule.

#### **11.250 TOW HOOK & RELEASE SYSTEM: GLIDER TOWING**

- (a) No person may operate an aircraft that is towing a glider unless the aircraft is equipped with a tow hook and release control system that meet the applicable standards of airworthiness.

#### **11.255 AIRCRAFT REQUIREMENTS: BANNER TOWING**

- (a) No person may operate an aircraft that is towing a banner unless the aircraft is equipped with a tow hook and release control system that meet the applicable standards of airworthiness.

- (b) No person may operate a helicopter that is towing a banner unless the helicopter has a means to prevent the banner from becoming entangled in the helicopter's tailrotor during all phases of flight, including autorotations.

#### **11.260 AIRCRAFT REQUIREMENT: TV & MOVIE/TV FILMING**

- (a) Aircraft in the experimental category shall have an airworthiness certificate issued for the purpose of exhibition in order to be used in motion picture and television filming operations,

### **SUBPART I: SPECIAL OPERATING RULES: AGRICULTURAL APPLICATION**

#### **11.265 APPLICABILITY**

- (a) The Subpart contains the special operating rules applicable to agricultural application operations by an AWC holder that are to be implemented in addition to, or in lieu of the requirements of Schedule 10

#### **11.270 GENERAL OPERATING RULES**

- (a) Except as provided in paragraph (c) of this section, this section prescribes rules that apply to persons and aircraft used in agricultural aircraft operations conducted under this Schedule.
- (b) The holder of an agricultural application authorization may deviate from the provisions of Schedule 10 without a certificate of waiver when conducting aerial work operations related to agriculture, horticulture, or forest preservation in accordance with the operating rules of this section.
- (c) The operating rules of this Subpart apply to Rotorcraft External load certificate holders conducting agricultural aircraft operations involving only the dispensing of water on forest fires by rotorcraft external-load means.
- (d) An operator may, if it complies with this Subpart, conduct agricultural aircraft operations with a rotorcraft with external dispensing equipment in place without a rotorcraft external-load operator certificate.

#### **11.275 PUBLIC EMERGENCY**

- (a) In a public emergency, a person conducting agricultural aircraft operations under this Schedule may, to the extent necessary, deviate from the operating rules of this Schedule for relief and welfare activities approved by an agency of the National or a local government.
- (b) Each person who, under the authority of this section, deviates from a rule of this Schedule shall, within 10 days after the deviation send to the Authority a complete report of the aircraft operation involved, including a description of the operation and the reasons for it.

#### **11.280 CERTIFICATE REQUIRED**

- (a) Except as provided in paragraphs (c) and (d) of this section, no person may conduct agricultural aircraft operations without, or in violation of, an agricultural application authorization issued under this Schedule.
- (b) The holder of a rotorcraft external-load operator certificate under this Schedule may conduct an agricultural aircraft operation, involving only the dispensing of water on forest fires by rotorcraft external-load means.

#### **11.285 CARRYING OF CERTIFICATE**

- (a) The registration and airworthiness certificates issued for the aircraft need not be carried in the aircraft provided that those certificates not carried in the aircraft shall be kept available for inspection at the base from which the dispensing operation is conducted.

#### **11.290 MANNER OF DISPENSING**

- (a) No persons may dispense, or cause to be dispensed, any material or substance in a manner that creates a hazard to persons or property on the surface.



**11.295 ECONOMIC POISON DISPENSING**

- (a) Except as provided in paragraph (b) of this section, no person may dispense or cause to be dispensed, any economic poison that is registered with the Bahamas—
- (1) For a use other than that for which it is registered;
  - (2) Contrary to any safety instructions or use limitations on its label; or
  - (3) In violation of any law or regulation of the Bahamas.
- (b) This Section does not apply to any person dispensing economic poisons for experimental purposes under—
- (1) The supervision of a Bahamas agency authorised by law to conduct research in the field of economic poisons; or
  - (2) A permit from the Bahamas.

**11.300 OPERATIONS IN CONTROLLED AIRSPACE DESIGNATED FOR AN AERODROME**

- (a) Except for flights to and from a dispensing area, no person may operate an aircraft within the lateral boundaries of the surface area of Class D airspace designated for an aerodrome unless authorization for that operation has been obtained from the ATC facility having jurisdiction over that area.
- (b) No person may operate an aircraft in weather conditions below VFR minimums within the lateral boundaries of a Class E airspace area that extends upward from the surface unless authorization for that operation has been obtained from the ATC facility having jurisdiction over that area.

**11.305 OPERATION OVER CONGESTED AREAS: GENERAL**

- (a) A certificate holder may operate or cause the operation of an aircraft over a congested area at altitudes required if the operation is conducted with—
- (1) The maximum safety to persons and property on the surface, consistent with the operation; and
  - (2) A plan for each operation, submitted and have approved by the Authority, which includes—
    - (i) Obstructions to flight;
    - (ii) Emergency landing capabilities of the aircraft to be used; and
    - (iii) Any necessary co-ordination with air traffic control.
- (b) Each certificate holder shall ensure that all single engine aircraft while in an congested area operate—
- (1) Except for helicopters, during take offs and turnarounds, with no load.
  - (2) Not below the altitudes prescribed in Schedule 10 except during the actual dispensing operation, including the approaches and departures necessary for that operation.
  - (3) During the actual dispensing operation, including the approaches and departures for that operation, not below the altitudes prescribed in Schedule 10 unless it is in an area and at such an altitude that the aircraft can make an emergency landing without endangering persons or property on the surface.
- (c) Each certificate holder shall ensure that all multiengine aircraft while in an congested area operate:
- (1) During take off, under conditions that will allow the aeroplane to be brought to a safe stop within the effective length of the runway from any point on takeoff up to the time of attaining, with all engines operating at normal takeoff power, 105 percent of the minimum control speed with the critical engine inoperative in the takeoff configuration or 115 percent of the power-off stall speed in the takeoff configuration, whichever is greater.

*Note: Assume still-air conditions, and no correction for any uphill gradient of 1 percent or less when the percentage is measured as the difference between elevation at the end points of the runway divided by the total length. For uphill gradients greater than 1 percent, the effective takeoff length of the runway is reduced 20 percent for each 1-percent grade.*

- (2) At a weight greater than the weight that, with the critical engine inoperative, would permit a rate of climb of at least 50 feet per minute at an altitude of at least 1,000 feet above the elevation of the

highest ground or obstruction within the area to be worked or at an altitude of 5,000 feet, whichever is higher. Assume that the propeller of the inoperative engine is in the minimum drag position; that the wing flaps and landing gear are in the most favourable positions; and that the remaining engine or engines are operating at the maximum continuous power available.

- (3) Below the altitudes prescribed in Schedule 10 except during the actual dispensing operation, including the approaches, departures, and turnarounds necessary for that operation.

## **SUBPART J: SPECIAL OPERATING RULES: EXTERNAL LOAD**

### **11.310 APPLICABILITY**

- (a) The Subpart contains the special operating rules applicable to external load operations by an AWC holder that are to be implemented in addition to, or in lieu of the requirements of Schedule 10

### **11.315 GENERAL OPERATING RULES**

- (a) No person may conduct a rotorcraft external load operation without, or contrary to, the Rotorcraft/Load Combination Flight Manual prescribed in this Schedule.
- (b) No person may conduct a rotorcraft external load operation unless—
  - (1) The rotorcraft complies with this Schedule; and
  - (2) The rotorcraft and rotorcraft/load combination is authorised under the Rotorcraft External Load Operator Certificate.
- (c) Before a person may operate a rotorcraft with an external load configuration that differs substantially from any that person has previously carried with that type of rotorcraft (whether or not the rotorcraft/load combination is of the same class), that person shall conduct, in a manner that will not endanger persons or property on the surface, such of the following flight operational checks as the Authority determines are appropriate to the rotorcraft/load combination—
  - (1) A determination that the weight of the rotorcraft/load combination and the location of its centre of gravity are within approved limits, that the external load is securely fastened, and that the external load does not interfere with devices provided for its emergency release.
  - (2) Make an initial liftoff and verify that controllability is satisfactory.
  - (3) While hovering, verify that directional control is adequate.
  - (4) Accelerate into forward flight to verify that no attitude (whether of the rotorcraft or of the external load) is encountered in which the rotorcraft is uncontrollable or which is otherwise hazardous.
  - (5) In forward flight, check for hazardous oscillations of the external load, but if the external load is not visible to the pilot, other crew members or ground personnel may make this check and signal the pilot.
  - (6) Increase the forward airspeed and determine an operational airspeed at which no hazardous oscillation or hazardous aerodynamic turbulence is encountered.
- (d) Notwithstanding the provisions of Schedule 10, the holder of a Rotorcraft External Load Operator Certificate may conduct rotorcraft external load operations over congested areas if those operations are conducted without hazard to persons or property on the surface and comply with the following—
  - (1) The operator shall develop a plan for each complete operation and obtain approval for the operation from the Authority.

*Note: The plan must include an agreement with the appropriate political subdivision that local officials will exclude unauthorized persons from the area in which the operation will be conducted, coordination with air traffic control, if necessary, and a detailed chart depicting the flight routes and altitudes.*
  - (2) Each flight shall be conducted at an altitude, and on a route, that will allow a jettisonable external load to be released, and the rotorcraft landed, in an emergency without hazard to persons or property on the surface.

- (e) Notwithstanding the provisions of Schedule 10, and except as provided in this Schedule, the holder of a Rotorcraft External Load Operator Certificate may conduct external load operations, including approaches, departures, and load positioning manoeuvres necessary for the operation, below 500 feet above the surface and closer than 500 feet to persons, vessels, vehicles, and structures, if the operations are conducted without creating a hazard to persons or property on the surface.
- (f) No person may conduct rotorcraft external load operations under IFR unless specifically approved by the Authority.

#### **11.320 CARRIAGE OF PERSONS**

- (a) No certificate holder may allow a person to be carried during rotorcraft external load operations unless that person—
  - (1) Is a flight crew member;
  - (2) Is a flight crew member trainee;
  - (3) Performs an essential function in connection with the external load operation; or
  - (4) Is necessary to accomplish the work activity directly associated with that operation.
- (b) The PIC shall ensure that all persons are briefed before takeoff on all pertinent procedures to be followed (including normal, abnormal, and emergency procedures) and equipment to be used during the external load operation.

### **SUBPART K: OTHER AERIAL WORK SPECIAL OPERATING RULES**

#### **11.325 APPLICABILITY**

- (a) The Subpart contains the operating rules applicable to external load operations, other than agricultural application and external load operations, by an AWC holder that are to be implemented in addition to, or in lieu, of the requirements of Schedule 10
- (b) If there are no special operating rules is included in this Subpart for a specific category of AWC holder, the requirements specified in Schedule 10 are applicable to those operations.

#### **11.330 SPECIAL OPERATING RULES: GLIDER TOWING**

- (a) All banner tow operations shall be conducted only—
  - (1) In VFR weather conditions; and
  - (2) Between the hours of official sunrise and official sunset.
- (b) No person may conduct banner towing operations—
  - (1) Over congested areas or open air assemblies of persons lower than 1,000 feet; and
  - (2) Elsewhere lower than the minimum safe altitude requirements of Schedule 10.

*Note: Helicopters may be operated at less than the minimums prescribed in paragraph No person may conduct banner towing operations— if the operation is conducted without hazard to persons or property on the surface.*

- (c) The certificate holder shall obtain the aerodrome manager's approval to conduct banner tow operations.
- (d) If banner towing operations take place at an aerodrome with a control tower, the certificate holder shall inform that control tower of the time of the banner tow operation.
- (e) The certificate holder shall notify the appropriate aerodrome officials in advance when banner tow operations will be in close proximity to an uncontrolled aerodrome.
- (f) Only essential crew members shall be carried when conducting banner tow operations.

- (g) When banner tow operations are conducted around congested areas, the pilot shall exercise due care so that, in the event of emergency release of the banner and/or towrope, it will not cause undue hazard to persons or property on the surface.
- (h) Each pilot shall drop the towrope in a predesignated area at least 500 feet from persons, buildings, parked automobiles, and aircraft.

*Note: If the tow plane lands with the rope attached, due care will be exercised to avoid trailing the rope and endangering other aircraft in the air, or persons, property or aircraft on the surface.*

- (i) Each pilot conducting banner towing operations shall carry on board the aircraft a current copy of the following certificate of Waiver or Authorization allowing banner towing operations.

#### **11.335 SPECIAL OPERATING RULES: MOVIE WAIVER REQUIREMENTS**

- (a) A waiver shall be obtained if filming sequences require an aircraft to be flown—
  - (1) In aerobatic flight below 1,500 AGL,
  - (2) Over a congested area, or
  - (3) In controlled airspace.

*Note: When conducting any filming operation requiring a waiver, the certificate holder shall ensure that all reasonable efforts are made to confine spectators to designated areas. If reasonable efforts have been taken and unauthorized persons or vehicles enter the airspace where manoeuvres are being performed during the filming production event, efforts must be made to remove them.*

- (b) The holder of the waiver shall provide a schedule of events that lists the—
  - (1) Identification of the aircraft; and
  - (2) Performers in the sequence of their appearance.
- (c) Any manoeuvres added or time changes to the schedule of events shall be approved by the Authority.
- (d) The waiver holder shall develop, have approved by the Authority, and adhere to a Motion Picture and Television Flight Operations Manual.

#### **11.340 SPECIAL OPERATING RULES: FISH SPOTTING**

- (a) Each operator shall conduct operations so as not to endanger persons or property on the surface nor aircraft in flight.
- (b) Minimum cloud clearance requirements and minimum altitude requirements of Schedule 10 do not apply to those persons to whom the Authority has specifically approved different minimums as a part of an authorization under this Subpart.

*End of BASR Schedule 11*