



## **PART - 135**

### **Air Operations - Helicopters and Small Aeroplanes**

## DESCRIPTION

Part 135 prescribes the operating requirements for air operations conducted by a holder of an airline air operator certificate or a general aviation air operator certificate issued in accordance with Part 119 using-

- (1) an aeroplane that has a passenger seating configuration of 9 seats or less, excluding any required crew member seat, and a MCTOW of 5700 kg or less, except for a single-engine aeroplane used for an air operation carrying a passenger under IFR (SEIFR passenger operation); or
- (2) a helicopter.

The objective is to standardise the rules for all operators of aircraft in these categories by establishing rules applicable to-

- a person performing an air operation
- a holder of an air operator certificate conducting an air operation
- a pilot-in-command performing an air operation
- additional aircraft equipment, instrument, and certification requirements and specifications
- aircraft maintenance
- crew training and competency
- management of flight crew fatigue

**This document is the current consolidated version of Part 135 produced by the Civil Aviation Authority, and serves as a reference only. It is compiled from the official ordinary rules that have been signed into law by the Minister of Road and Transport. Copies of the official rule and amendments as signed by Minister may be obtained from the Civil Aviation Authority or may be downloaded from the official web site at: [www.mcaa.gov.mn](http://www.mcaa.gov.mn)**

**Bulletin**

ICAO 29<sup>th</sup> Assembly Resolution A29-3 of year 1992 urges States to promote global harmonization of national rules. In order to implement this Resolution, Mongolian Civil Aviation Regulation has been developed based on “Memorandum for Technical Cooperation” between CAA of Mongolia and New Zealand, signed on 6<sup>th</sup> of May, 1999.

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## **Subpart A - General**

### **135.1. Purpose**

This Part prescribes rules governing air transport operations and special operations using-

- (1) aeroplanes having a certificated passenger seating configuration of 9 seats or less, excluding any required crew member seat, and a MCTOW of 5700 kg or less, except when they are used for SEIFR passenger operations; and
- (2) helicopters.

### **135.3. Definitions and abbreviations**

Definitions and abbreviations relating to this Part are contained in CAR interpretation summary.

### **135.5 Laws, regulations, and procedures**

Each holder of an airline air operator certificate or a general aviation air operator certificate issued under Part 119 shall ensure that all persons employed, or contracted, by the holder of an air operator certificate, are familiar with the appropriate sections of the Act, Civil Aviation Rules, and procedures specified in the certificate holder's exposition.

### **135.7. Procedure compliance**

Each person performing an air operation shall conform with the applicable procedures specified in the exposition of the holder of the air operator certificate that authorises the operation.

### **135.9. Crew member grace provisions**

If a crew member completes a test, flight check, or assessment, that is required under Subparts I or J within 60 days before the date on which the test, flight check, or assessment is required, the crew member is deemed to have completed the test, flight check, or assessment on the date that it is required to be completed.

### **135.11. Reserved**

### **135.13. Passenger training**

In addition to the requirements in 91.211, each person performing a special operation shall ensure that each passenger receives additional briefing or training in safety and emergency procedures appropriate to the characteristics of the flight operation.

## **Subpart B - Flight Operations**

### **135.51. Purpose**

This Subpart prescribes the rules governing air operations.

### **135.53. Aircraft airworthiness**

(a) A holder of an air operator certificate must ensure that each aircraft that is operated on an air transport operation under the authority of the certificate has a current standard category airworthiness certificate.

(b) A holder of an air operator certificate must ensure that each aircraft it uses in conducting a special operation has-

- (1) a current standard category airworthiness certificate; or
- (2) a current restricted category airworthiness certificate provided that the aircraft flight manual allows such an operation.

### **135.55. Common language**

A holder of an air operator certificate must ensure that-

- (1) all crew members can communicate in a common language and at least one flight crew member can communicate in the language which is required by the flight operation; and
- (2) all operations personnel are able to understand the language in which the applicable parts of the certificate holder's exposition and flight manual are written.

### **135.57. Flight preparation and flight planning**

(a) The holder of an air operator certificate must ensure that for each air operation conducted under the authority of that certificate, appropriate information is available to the pilot-in-command to complete the preparation for the intended operation.

- (b) The holder of an air operator certificate must ensure that prior to each-
- (1) air transport operation; and
  - (2) special operation where passengers or goods are carried from or to a remote aerodrome,
- conducted under the authority of that certificate, a flight plan meeting the requirements of 91.307(c) or 91.407 as appropriate for the type of operation is prepared, and if the flight plan is not prepared by the pilot-in-command, the pilot-in-command is informed of the contents of the flight plan before the intended operation.
- (c) A VFR flight plan prepared under paragraph (b) in accordance with the requirements of 91.307(c) may incorporate multiple route segments provided that the SARTIME is amended for the next aerodrome of intended landing as the flight proceeds.
- (d) The holder of an air operator certificate performing an air operation under VFR to an aerodrome where communications cannot be maintained, must ensure that prior to any such air operation-
- (1) the flight plan required by paragraph (b) includes a SARTIME for when the next communication with an ATS unit will be established; or
  - (2) where the operation is covered by a flight following service under 119.73(b) or 119.121(b), the person providing the flight following service is given a time for re-establishing communications.
- (e) Except as provided in paragraph (f) the holder of the air operator certificate must ensure that the flight plan required under paragraph (b) is submitted to an appropriate ATS unit.
- (f) Except as required by 91.307(a)(1), a flight plan is not required to be submitted to an ATS unit if-
- (1) the air operation is a VFR flight; and
  - (2) the operation is covered by a flight following service under 119.73 or 119.121; and
  - (3) the requirements under 119.73(b) or 119.121(b) are met; and
  - (4) the pilot-in-command maintains a listening watch on the appropriate ATS radio frequency.
- (g) Notwithstanding 91.307(a) and 91.407(a)(1), the flight plan required to be submitted to an ATS unit under paragraph (e) may be submitted by the holder of the air operator certificate and the pilot-in-command must be informed of the contents of the flight plan.

### **135.59. Emergency and survival equipment information**

- (a) Each holder of an air operator certificate shall have available, for immediate communication to rescue co-ordination centres, information on the emergency and survival equipment carried on board each of its aircraft.

(b) For air operations performed in excess of 10 nm from shore the information required by paragraph (a) shall include-

- (1) the number, colour, and type of life-rafts; and
- (2) whether pyrotechnics are carried; and
- (3) details of emergency medical supplies and water supplies; and
- (4) the type and operating frequencies of any emergency portable radio equipment.

### **135.61. Fuel**

(a) Each holder of an air operator certificate shall establish a fuel policy for the purpose of flight planning, and en-route replanning, to ensure that each aircraft carries sufficient fuel for the planned flight, including reserves to cover deviations from the planned flight.

(b) The fuel policy shall ensure that the planning of fuel requirements is based upon-

- (1) procedures, tables, and graphs, that are contained in, or derived from, the manufacturer's manuals and that conform to the parameters contained in the aircraft's type certificate; and
- (2) the operating conditions under which the planned flight is to be conducted.

(c) Each holder of an air operator certificate shall ensure that the calculation of usable fuel required for an operation takes into account the following factors:

- (1) taxi fuel; and
- (2) trip fuel; and
- (3) reserve fuel, consisting of-
  - (i) contingency fuel; and
  - (ii) alternate fuel, if an alternate aerodrome is required; and
  - (iii) final-reserve fuel; and
  - (iv) additional fuel, if required by the type of operation:
- (4) if applicable, fuel required for en-route replanning.

(d) Each person flight planning or en-route replanning an air operation shall comply with the fuel policy required by paragraph (a).

### **135.63. Cockpit check**

(a) Each holder of an air operator certificate shall, for each air operation, ensure that flight crew members have available for use a cockpit checklist covering the procedures, including emergency procedures, for the operation.

(b) Each person performing an air operation shall establish and use an appropriate practice for cockpit checks covering the procedures, including emergency procedures, for the operation of the aircraft in accordance with the aircraft flight manual.

#### **135.65. Passenger safety**

- (a) Each person performing an air operation shall ensure that-
- (1) any passenger who appears to be under the influence of alcohol or drugs or exhibits behavioural characteristics, to the extent where the safety of the aircraft or its occupants is likely to be endangered, is refused embarkation or, where appropriate, removed from the aircraft; and
  - (2) disabled passengers are appropriately cared for, including allocation of appropriate seating positions and handling assistance in the event of an emergency; and
  - (3) escorted passengers do not constitute a safety hazard to other passengers or to the aircraft, and that prior arrangement for their carriage have been made in accordance with procedures in the certificate holder's exposition.
- (b) Notwithstanding (a)(1), where an operation is conducted for the purpose of search and rescue or is an air ambulance operation, passengers may be carried who are under the influence of alcohol or drugs or exhibit behavioural characteristics to the extent where the safety of the aircraft or its occupants is likely to be endangered, provided that reasonable action is taken by the operator to minimise the risk to the aircraft and its occupants from such passengers.

#### **135.67. Reserved**

#### **135.69. Manipulation of controls**

- (a) Except as provided in paragraph (b), a person must not manipulate the controls of an aircraft performing an air operation.
- (b) A holder of an air operator certificate must take reasonable care to ensure that a person does not permitted to manipulate the flight controls of an aircraft performing an air operation, unless the person is-
- (1) a flight crew member; or
  - (2) an authorised representative of the Director who-
    - (i) has the permission of the certificate holder and the pilot-in-command; and
    - (ii) is performing a required duty.

**135.71. Flight recorder requirements**

- (a) Each flight crew member shall ensure that, when a **CVR** is required by 135.367-
- (1) it is operated continuously from the start of the checklist commenced before engine start until the completion of the final checklist at the termination of flight; and
  - (2) if the helicopter is equipped to record the uninterrupted audio signals received from a boom or a mask microphone, boom microphones are used below 10 000 feet altitude; and
  - (3) if an erasure feature is used in the CVR, only information recorded more than 30 minutes earlier than the last record is erased or otherwise obliterated.
- (b) Each flight crew member shall ensure that, when a **FDR** is required by 135.369-
- (1) it is operated continuously from the instant the helicopter begins the take-off until it has completed the landing; and
  - (2) all recorded data is kept until the helicopter has been operated for at least 10 hours after each operating cycle; and
  - (3) no more than 1 hour of recorded data is erased for the purpose of testing the flight recorder or the flight recorder system; and
  - (4) any erasure made in accordance with paragraph (b)(3) is-
    - (i) of the oldest recorded data accumulated at the time of testing; and
    - (ii) recorded in the appropriate maintenance documentation.

**135.73. Refuelling and defuelling operations**

(a) Despite the requirements of rule 91.15(3), a person operating an aircraft under the authority of an air operator certificate issued in accordance with Part 119 may refuel or defuel the aircraft with a Class 3.1C or a Class 3.1D flammable liquid when a person is embarking, on board, or disembarking the aircraft, provided the person operating the aircraft ensures that safety and aircraft evacuation precautions are taken in accordance with procedures specified in the certificate holder's exposition.

(b) A person operating an aircraft under the authority of an air operator certificate issued in accordance with Part 119 may refuel or defuel the aircraft with a Class 3.1C or a Class 3.1D flammable liquid with 1 or more propulsion engines running, if-

- (1) the person ensures that safety and aircraft evacuation precautions are taken in accordance with procedures specified in the certificate holder's exposition; and

- (2) the pilot-in-command is responsible for every aspect of the fuelling operation.

**135.75. Reserved**

**135.77. Use of aerodromes**

(a) A holder of an air operator certificate must ensure that an aeroplane performing an air operation under the authority of the holder's certificate does not use an aerodrome for landing or taking-off unless-

- (1) the aerodrome has physical characteristics, obstacle limitation surfaces, and visual aids that meet the requirements of-
  - (i) the characteristics of the aeroplane being used; and
  - (ii) the lowest meteorological minima to be used; and
- (2) if the operation is a regular air transport service operating to, from, or outside of Mongolia after 12 July 2007,-
  - (i) each runway at an aerodrome within Mongolia that is used for the operation has a RESA at each end of the runway in accordance with the requirements of Part 139 Appendix A.1; or
  - (ii) if the runway does not have a RESA as required in paragraph (a)(2)(i), the certificate holder must ensure that for operations conducted after 12 October 2011 the take-off and landing performance calculations for the aeroplane are based on a reduction of the appropriate declared distances for the runway to provide the equivalent of a 90 m RESA at the overrun end of the runway strip; and
  - (iii) each runway at an aerodrome outside of Mongolia that is used for the operation has a RESA that extends to at least 150 m from the overrun end of the runway, or an engineered equivalent that is acceptable to the Director; or
  - (iv) if the runway does not have a RESA or an engineered equivalent as required in paragraph (a)(2)(iii), the certificate holder must ensure that the take-off and landing performance calculations for the aeroplane are based on a reduction of the appropriate declared distances for the runway to provide the equivalent of the RESA required in paragraph (a)(2)(iii) at the overrun end of the runway.

(b) A holder of an air operator certificate must ensure that any heliport used in its air transport operations meets the applicable requirements of Part 91.

(c) If an aeroplane operated under the authority of an air operator certificate uses an aerodrome not promulgated in the AIP Mongolia, the holder of the air operator certificate must maintain a register containing-

- (1) the aerodrome data; and

- 
- (2) procedures to ensure that the condition of the aerodrome is safe for the operation; and
  - (3) procedures to ensure that the condition of any required equipment, including safety equipment, is safe for the operation; and
  - (4) details of any limitations on the use of the aerodrome.
- (d) A holder of an air operator certificate must ensure that an aeroplane that is operated VFR by day under the authority of the holder's certificate does not use any place for the purpose of landing or taking-off unless-
- (1) the runway used has-
    - (i) a width that is at least twice the outer main gear wheel span of the aeroplane; and
    - (ii) a surface without irregularities and of sufficient strength for take-off and landing for the aeroplane being used; and
  - (2) the width of the runway strip surrounding the runway being used is at least two and a half times the wing span of the aeroplane, or 30 m, whichever is greater.
- (e) A holder of an air operator certificate must ensure that an aeroplane, that is not operated in accordance with paragraph (d), does not use any place for the purpose of landing or taking-off unless-
- (1) the aerodrome reference code for the aeroplane being used is determined by reference to Table 1 of Appendix C; and
  - (2) the runway width is at least that width determined by reference to the aeroplane code number in Table 2 of Appendix C; and
  - (3) the minimum runway strip width for the runway used is determined by reference to Table C-1 of Appendix C of Part 139.
- (f) Notwithstanding paragraphs (d) and (e), a holder of an air operator certificate may use a lesser minimum runway width than that required under paragraph (d) or (e) for an aeroplane type if-
- (1) a lesser minimum runway width determined by certificated flight testing is prescribed in the aeroplane's flight manual; or
  - (2) a lesser minimum runway width is acceptable to the Director.

#### **135.79. Reserved**

#### **135.81. Operations of single-engine aircraft - IFR**

No person shall perform an air operation carrying passengers with a single-engine aircraft under IFR.

#### **135.83. Restriction or suspension of operations**

Each holder of an air operator certificate shall, on becoming aware of any condition that is a hazard to safe operations, restrict or suspend operations as necessary until the hazard is removed.

**135.85. Minimum height for VFR flights**

(a) Rule 91.311(c) shall not apply to a pilot-in-command of an aircraft performing an air transport operation.

(b) Notwithstanding rule 91.311(c)(4), a pilot-in-command of an aircraft performing a special operation may, if necessary for the proper accomplishment of the operation, conduct approaches, departures, and manoeuvres below a height of 500 feet above the surface within the horizontal radius of 150 metres of any person, vessel, vehicle, or structure if the pilot-in-command-

- (1) prepares a plan for the operation in conjunction with every person and organisation involved in the operation; and
- (2) takes reasonable care to conduct the operation without creating a hazard to any person or property; and
- (3) briefs every person and organisation involved in the operation on the plan required by paragraph (b)(1).

**135.87. Flights over water**

(a) A person performing an air operation must not operate over water more than 10 nm beyond gliding or auto-rotational distance from shore unless-

- (1) life-rafts are carried of sufficient rated capacity to carry every occupant of the aircraft; and
- (2) a life preserver is worn by each passenger.

(b) A person performing an air operation in a single-engine helicopter must not operate over water more than 10 nm beyond auto-rotational distance from shore unless-

- (1) the helicopter is equipped with an operable flotation device; or
- (2) each occupant is wearing an immersion suit.

(c) The operator of a multi-engine aircraft may, instead of the requirement in paragraph (a)(2), have life preservers available for use in a position accessible to each passenger.

(d) A person performing an air transport operation over water beyond 100 nm from shore must conduct the flight under IFR.

**135.89. Reserved****135.91. Emergency situation action plans**

(a) Each holder of an air operator certificate shall ensure action plans are developed for handling in-air and on-ground emergency situations and minimising risk of injury to persons.

- (b) The certificate holder's emergency situation action plan shall be based upon data including but not restricted to-
- (1) type and length of routes over which operations are carried out; and
  - (2) aerodrome ground facilities; and
  - (3) local emergency services; and
  - (4) ATC facilities; and
  - (5) type, seating configuration, and payload of the aircraft likely to be involved.
- (c) The certificate holder's in-air emergency plan shall include the following-
- (1) if management personnel become aware of an emergency situation arising on an aircraft during flight that requires immediate decision and action, procedures to be followed by those personnel to ensure that-
    - (i) the pilot-in-command is advised of the emergency; and
    - (ii) the decision of the pilot-in-command is ascertained; and
    - (iii) the decision is recorded; and
  - (2) if management personnel are unable to communicate with the pilot-in-command in accordance with paragraph (c)(1), procedures to be followed by those personnel to ensure that-
    - (i) an emergency is declared; and
    - (ii) any action considered necessary under the circumstances is taken.
- (d) Each holder of an air operator certificate shall ensure appropriate staff are trained and competent to perform their duties during emergencies in accordance with the emergency situation action plan.

### **135.93. Operations over congested areas**

- (a) Notwithstanding rule 91.311(a)(1), a pilot-in-command of a helicopter may perform a special operation over a congested area of a city, town or settlement at a height less than 1000 feet above the surface or any obstacle that is within a horizontal radius of 600 metres from the point immediately below the helicopter if-
- (1) a plan for the operation is prepared containing-
    - (i) a chart depicting flight areas and altitudes; and
    - (ii) procedures to ensure that reasonable care is taken to conduct the operation without creating a hazard to any person or property; and
    - (iii) details of any co-ordination necessary with any air traffic control service; and
    - (iv) a copy of the prior written notification given to the appropriate territorial authority and the requirements of that territorial authority that must be complied with; and
  - (2) every person and organisation involved in the operation is briefed on the plan required by paragraph (a)(1); and

(3) the plan required by paragraph (a)(1) is retained for a period of at least 12 months from the date of the operation.

(b) A pilot-in-command performing an operation in accordance with paragraph (a) must comply with the applicable plan required by paragraph (a)(1).

#### **135.95. Helicopter sling loads**

(a) Each pilot-in-command performing an air transport operation in a helicopter shall not carry a helicopter external sling load.

(b) Notwithstanding 133.53, each pilot-in-command performing a special operation in a helicopter may carry goods in a helicopter external sling load if-

- (1) the goods in the sling load are associated with the passengers on board; and
- (2) the flight complies with the remaining helicopter external load operation requirements in Part 133; and
- (3) the flight is conducted under VFR by day; and
- (4) the helicopter is operated with not less than a 10% power margin from maximum power available at the point of departure and landing.

### **Subpart C - Operating Limitations and Weather Requirements**

#### **135.151. Purpose**

This Subpart prescribes the rules governing VFR and IFR operations, and associated weather requirements.

#### **135.153. Meteorological information**

(a) A person performing an air operation under VFR must plan, perform, and control the flight using meteorological information of a sufficient reliability and accuracy provided from a source considered acceptable to the operator and the pilot-in-command.

(b) A person performing an air transport operation under IFR must plan, perform, and control a flight using meteorological information provided for aviation purposes by-

- (1) subject to paragraph (c), for a flight sector originating within Mongolia, the holder of an aviation meteorological service organisation certificate issued in accordance with Part 174; or
- (2) for a sector originating from an aerodrome outside Mongolia, an aviation meteorological service organisation that-
  - (i) meets a standard equivalent to that specified by Part 174; and

(ii) is authorised by an ICAO Contracting State to provide aviation meteorological information.

(c) A pilot-in-command of an aircraft may, for an IFR flight that originates and terminates within Mongolia, use the meteorological information provided in a basic weather report to perform an instrument approach procedure if the holder of the air operator certificate under which the flight is operated is satisfied that the basic weather report is provided in accordance with the requirements of rule 174.6.

### **135.155. Meteorological conditions - VFR flight**

(a) A pilot-in-command of an aircraft performing an air operation must not commence a flight under VFR unless current meteorological information indicate that VFR minima prescribed in Part 91 and in paragraphs (b), (c), (d), and (e) can be complied with along the route, or that part of the route to be flown under VFR.

(b) A pilot-in-command of an aeroplane performing an air operation outside controlled airspace under VFR must fly in meteorological conditions-

- (1) of not less than a ceiling of 1000 feet AGL and a flight visibility of not less than 5 km; and
- (2) if the operation is by night, of not less than a ceiling of 3000 feet AGL and a flight visibility of not less than 16 km.

(c) A pilot-in-command of a helicopter performing a VFR air transport operation outside controlled airspace must fly in meteorological conditions-

- (1) of not less than a ceiling of 600 feet AGL and flight visibility of not less than 1500 metres; and
- (2) if the operation is by night, of not less than a ceiling of 2000 feet AGL and flight visibility of not less than 5 km.

(d) A pilot-in-command of a helicopter performing a VFR special operation must-

- (1) manoeuvre the helicopter so that the pilot can, at all times, observe other traffic and any obstruction in time to avoid a collision; and
- (2) for remote aerodrome access, fly in meteorological conditions of not less than a ceiling of 600 feet AGL and flight visibility of not less than 1500 metres; and
- (3) for other than remote aerodrome access, fly beneath the ceiling, remaining clear of cloud, and in continuous sight of the surface and above not more than scattered cloud; and
- (4) if the operation is by night, fly in meteorological conditions of not less than a ceiling of 2000 feet AGL and a flight visibility of not less than 5 km.

(e) A pilot-in-command of an aircraft must not perform an air operation under VFR above more than scattered cloud unless-

- (1) the aircraft is authorised for IFR flight and the required minimum flight crew for IFR operation, holding current instrument rating, is performing the operation; and
- (2) the instruments and equipment, including radio navigation equipment, required for IFR flight are operative; and
- (3) the aircraft carries radio navigation equipment enabling it to be navigated by IFR to an aerodrome where an instrument approach procedure may be carried out for landing; and
- (4) the aircraft carries sufficient fuel and fuel reserves to proceed by IFR to an aerodrome where an instrument approach procedure may be carried out for landing.

(f) Notwithstanding paragraph (e), a pilot-in-command of an aircraft may not perform an air operation carrying passengers under VFR in a single-engine aircraft above more than scattered cloud.

#### **135.157. Meteorological conditions - IFR flight**

A pilot-in-command of an aircraft performing an air transport operation must not commence an operation under IFR unless current meteorological reports, or a combination of current meteorological reports and forecasts, indicate that conditions will, at the estimated time of arrival, be at or above the minima published in the applicable AIP for the instrument procedure likely to be used at the applicable destination aerodrome.

#### **135.159. Aerodrome operating minima - IFR flight**

(a) A pilot-in-command of an aircraft must not continue an instrument approach to an aerodrome past the final approach fix or, if a final approach fix is not used, must not commence the final approach segment of the instrument approach procedure if, before passing the final approach fix or before commencing the final approach segment, current meteorological information indicates that the visibility at the aerodrome is less than the visibility published in the applicable AIP for the instrument approach procedure being used.

(b) For the purpose of paragraph (a), the final approach segment begins-

- (1) at the final approach fix or facility specified in the instrument approach procedure; or
- (2) if a final approach fix is not specified in the instrument approach procedure and the procedure includes a procedure turn, at the point where the procedure turn is completed and the aircraft is established on the final approach course within the distance specified in the instrument approach procedure.

**135.159A. Aerodrome operating minima to be used for each aerodrome**

- (a) A holder of an air operator certificate must ensure that a pilot-in-command performing an air operation complies with the aerodrome operating minima that applies to the aerodrome, as published in the applicable AIP.
- (b) The holder of an air operator certificate may increase the aerodrome operating minima by including the increased aerodrome operating minima in the certificate holder's exposition.
- (c) A pilot-in-command who operates under an increased aerodrome operating minima in accordance with paragraph (b) must comply with any requirements specified in the certificate holder's exposition in relation to the increased aerodrome operating minima.

**135.161. IFR departure limitations**

Each person performing an air transport operation must ensure an IFR flight from an aerodrome is not commenced when meteorological conditions are at or above take-off minima requirements prescribed under rule 91.413 and are below authorised IFR landing minima requirements prescribed under rule 91.413, unless the aeroplane is a multi-engine aeroplane and there is an appropriate aerodrome-

- (1) for a two-engine aircraft, within a maximum of one hour flying time, in still air at one engine inoperative cruise speed, of the aerodrome of departure; or
- (2) for an aircraft having three or more engines, within a maximum of two hours flying time, in still air at one engine inoperative cruise speed, of the aerodrome of departure.

**135.163. Reduced take-off minima**

- (a) A holder of an air operator certificate may operate an aircraft at lower take-off minima than that prescribed in rule 91.413(g) if the holder of the air operator certificate ensures that the operation is conducted in accordance with the reduced take-off minima procedure specified in the certificate holder's exposition.
- (b) The reduced take-off minima procedure must require that-
- (1) every flight crew member is qualified for reduced take-off minima; and
  - (2) the runway to be used has centre-line marking or centre-line lighting; and
  - (3) reduced take-off minima on the runway to be used are published in the applicable AIP; and
  - (4) if the aircraft is a two-engine propeller-driven aeroplane, the aircraft is equipped with an operative auto-feather or auto-coarse system; and
  - (5) the runway visibility is established using RVR; and
  - (6) the method for observing and confirming that the required visibility exists for take-off is acceptable to the Director.

**135.165. IFR procedures**

- (a) A pilot-in-command of an aircraft performing an air transport operation under IFR must conduct the operation on a route published in the applicable AIP except when-
- (1) it is necessary to avoid potentially hazardous conditions; or
  - (2) operating under radar control from an ATS; or
  - (3) operating under an off-route clearance obtained from an ATC unit; or
  - (4) otherwise specified in the exposition of the holder of the air operator certificate that authorises the operation.
- (b) Unless a clearance has been obtained from the appropriate ATC unit, in controlled airspace, a pilot-in-command must comply with any IFR departure and approach procedure published in the applicable AIP for the aerodrome being used.
- (c) In uncontrolled airspace a pilot-in-command must comply with any IFR departure and approach procedure published in the applicable AIP for the aerodrome being used.

**Subpart D - Performance****135.201. Purpose**

- (a) Except as provided in paragraphs (b), (c), and (d), this Subpart prescribes aeroplane performance operating limitations applicable to aeroplanes used in performing air operations.
- (b) Rules 135.229 through to and including 135.235 do not apply to propeller-powered aeroplanes, certificated to-
- (1) FAR Part 23 normal category or equivalent airworthiness standards; or
  - (2) SFAR 23 airworthiness standards or equivalent standards.
- (c) Rules 135.209, 135.213, 135.223, and 135.225 do not apply to propeller-powered aeroplanes, certificated to-
- (1) SFAR 41 standards or equivalent airworthiness standards; or
  - (2) FAR Part 23 commuter category airworthiness standards or equivalent airworthiness standards; or
  - (3) FAR Part 135 Appendix A airworthiness standards.
- (d) Aeroplanes that cannot fully comply with the requirements of this Subpart may be approved to operate under alternative performance operating limitations.

**135.203. Reserved****135.205. Part 121 Subpart D compliance**

Each holder of an air operator certificate shall ensure that each aeroplane it operates that is certificated to FAR Part 25 airworthiness standards or equivalent airworthiness standards, complies with the aeroplane performance operating limitations prescribed in Subpart D of Part 121.

**135.207. General aeroplane performance**

Each holder of an air operator certificate shall ensure that, for each aeroplane it operates-

- (1) the take-off weight at the start of its take-off is not greater than the weight permitted under this Subpart for the flight to be undertaken allowing for the expected reductions in weight as the flight proceeds; and
- (2) the performance data used to determine compliance with the performance requirements of this Subpart is-
  - (i) contained in the aeroplane flight manual; or
  - (ii) in the case of contaminated runway landing distance data, provided by the aeroplane manufacturer and acceptable to the Director.

**135.209. Take-off distance (FAR Part 23 normal category or SFAR 23)**

(a) Each holder of an air operator certificate shall ensure that, for each aeroplane it operates-

- (1) the take-off weight does not exceed the maximum take-off weight specified in the flight manual; and
- (2) the take-off distance required does not exceed 85% of the take-off run available (TORA).

(b) When calculating the take-off weight and distance to determine compliance with paragraph (a), the holder of an air operator certificate shall take account of-

- (1) the TORA; and
- (2) the weight of the aeroplane at the commencement of the take-off run; and
- (3) the pressure altitude of the aerodrome; and
- (4) ambient temperature at the aerodrome; and
- (5) the type of runway surface and the runway surface condition; and
- (6) the runway slope in the direction of take-off; and
- (7) not more than 50% of the reported head-wind component or not less than 150% of the reported tail-wind component.

**135.211. Runway surface and slope correction factors**

Each holder of an air operator certificate shall ensure that, unless performance data is available that authorises an alternative, the take-off distance calculated for a runway surface type under 135.209(b)(5) or 135.229(c)(4) and the landing distance calculated under 135.223(c)(3) and 135.233(c)(3)-

- (1) are corrected for use of other runway surface types by applying the factors in Table 1; and
- (2) are corrected for runway slope by-
  - (i) increasing the take-off distance by 5% for each 1% of uphill slope up to a maximum of 3% upslope; or

- (ii) decreasing the landing distance by 5% for each 1% of uphill slope up to a maximum of 3% upslope; or
- (iii) decreasing the take-off distance by 5% for each 1% downslope up to a maximum of 3% downslope; or
- (iv) increasing the landing distance by 5% for each 1% downslope up to a maximum of 3% downslope.

**Table 1**

Surface Type	Take-off Distance Factor	Accelerate-Stop Distance Factor	Landing Distance Factor
Paved	x 1.00	x 1.00	x 1.00
Coral	x 1.00	x 1.03	x 1.05
Metal	x 1.05	x 1.06	x 1.08
Rolled earth	x 1.08	x 1.14	x 1.16
Grass	x 1.14	x 1.20	x 1.18

**135.213. Net take-off flight path - aeroplanes under IFR**

(a) Each holder of an air operator certificate shall ensure that, for each aeroplane it operates under IFR and, in the case of an aeroplane with two or more engines, assuming that the critical engine is inoperative, all obstacles within the net take-off flight path are cleared vertically by at least 50 feet.

(b) For the purpose of paragraph (a), an obstacle shall be deemed to be within the net take-off flight path if the lateral distance from the obstacle to the intended line of flight does not exceed-

- (1) where the intended flight path does not require a track change exceeding 15°-
  - (i) 45 m plus 0.10D, to a maximum of 600 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 300 m; or
  - (ii) for day operations in VMC, 30 m plus 0.10D to a maximum of 600 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 300 m; or
- (2) where the intended flight path requires a track change exceeding 15°-
  - (i) 45 m plus 0.10D, to a maximum of 900 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 600 m; or

- 
- (ii) for day operations in VMC, 30 m plus 0.10D to a maximum of 600 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 300 m.
- (c) For the purpose of paragraph (b), D is the horizontal distance the aeroplane will travel from the end of the take-off distance available (TODA).
- (d) When calculating the net take-off flight path in accordance with paragraph (a), the holder of an air operator certificate shall ensure that-
- (1) the following factors are taken into account-
    - (i) take-off weight at the commencement of the take-off run; and
    - (ii) aerodrome elevation; and
    - (iii) pressure altitude at the aerodrome when the atmospheric pressure varies by more than 1% from the International Standard Atmosphere; and
    - (iv) ambient temperature at the aerodrome; and
    - (v) not more than 50% of the reported head-wind component or not less than 150% of the reported tail-wind component; and
  - (2) a track change exceeding 15° is not made before a height of 50 feet above the take-off surface has been achieved; and
  - (3) unless otherwise authorised by the Director-
    - (i) a bank angle exceeding 15° is not made before a height of 50 feet above the take-off surface has been achieved; and
    - (ii) the bank angle up to and including a height of 400 feet above the take-off surface does not exceed 20°; and
    - (iii) the bank angle above a height of 400 feet above the take-off surface does not exceed 25°; and
  - (4) allowance is made for-
    - (i) the effect of the bank angle on operating speeds and flight path; and
    - (ii) distance increments resulting from increased operating speeds; and
    - (iii) retention of stall margin and loss of climb gradient in accordance with 135.215.

### **135.215. Engine inoperative - gradient and stall corrections**

Each holder of an air operator certificate shall, unless performance data is available that authorises an alternative, for compliance with 135.213(d)(4)(iii), retain stall margin and calculate loss of climb gradient by applying the factors in Table 2.

**Table 2**

<b>Bank angle</b>	<b>Speed correction</b>	<b>Gradient correction</b>
15° to 19°	V <sub>2</sub>	1 x Aeroplane flight manual 15° gradient loss
20° to 24°	V <sub>2</sub> + 5 knots	2 x Aeroplane flight manual 15° gradient loss
25°	V <sub>2</sub> + 19 knots	3 x Aeroplane flight manual 15° gradient loss

**135.217. En-route - critical engine inoperative**

(a) Each holder of an air operator certificate shall ensure that, for each aeroplane it operates having two or more engines, the aeroplane is capable of continuing flight at a positive slope at or above the relevant minimum safe altitudes, to a point 1000 feet above an aerodrome at which the performance requirements can be met under the following conditions-

- (1) in the forecasted meteorological conditions expected for the flight; and
- (2) with the critical engine inoperative; and
- (3) with the remaining engines operating within the maximum continuous power conditions specified.

(b) When calculating the en-route limitations in accordance with paragraph (a), the holder of an air operator certificate shall ensure-

- (1) the aeroplane is not assumed to be flying at an altitude exceeding that at which the rate of climb is not less than 300 feet per minute with all engines operating within the maximum continuous power conditions specified in the aeroplane flight manual; and
- (2) the assumed en-route gradient with one engine inoperative is the gross-gradient-minus-0.5% gradient.

**135.219. En-route - 90 minute limitation**

(a) Each holder of an air operator certificate shall ensure that each aeroplane it operates with two engines is not more than 90 minutes away from an aerodrome at which the performance requirements specified in the aeroplane flight manual applicable at the expected landing weight are met.

(b) Except as provided in paragraph (c), each holder of an air operator certificate shall ensure that each aeroplane it operates with three or more engines is not more than 90 minutes away from an aerodrome at which the performance requirements specified in the aeroplane flight manual applicable at the expected landing weight are met.

(c) Each holder of an air operator certificate may operate an aircraft with three or more engines more than 90 minutes away from an aerodrome at which the performance requirements specified in the aeroplane flight manual applicable at the expected landing weight are met, provided that-

- (1) the two engine inoperative en-route flight path data permits the aeroplane to continue the flight, in the expected meteorological conditions, from the point where two engines are assumed to fail simultaneously, to an aerodrome at which it is possible to land using the prescribed procedure for a landing with two engines inoperative; and
- (2) the net flight path, taking into account the effect of icing protection systems if the meteorological conditions require their operation-
  - (i) has a positive slope at the minimum safe altitude of the route to be flown; or
  - (ii) based on the gross-gradient-minus-0.5% gradient and failure of the two engines at the most critical en-route point, clears all terrain and obstructions within, except as otherwise provided in paragraph (d), 10 nm of the intended track by at least 2000 feet vertically; and
- (3) the net flight path has a positive slope at a height of 1500 feet above the aerodrome where the landing is assumed to be made after the failure of two engines; and
- (4) the expected weight of the aeroplane at the point where the two engines are assumed to fail shall be not less than that which would include sufficient fuel to proceed to an aerodrome where the landing is assumed to be made, and to arrive there at a height of at least 1500 feet directly over the aerodrome and thereafter to fly level for at least 15 minutes.

(d) If the pilot is able, by the use of radio navigation aids, to maintain the intended track by a margin of 5 nm the distance of 10 nm required by paragraph (c)(2)(ii) may be reduced to 5 nm.

(e) When calculating compliance with paragraph (c), the holder of an air operator certificate shall assume the two engines fail at the most critical point of that portion of the route where the aeroplane is more than 90 minutes, at the all engines long range cruise speed at standard temperature and still air, away from an aerodrome at which the performance requirements applicable at the expected landing weight are met.

### **135.221. Landing-climb - destination and alternate aerodromes**

Each holder of an air operator certificate shall ensure that, for each aeroplane it operates-

- (1) the landing weight of the aeroplane does not exceed the maximum approach and landing-climb weight, taking into account the altitude and the ambient temperature expected for the estimated time of landing at a destination and alternate aerodrome; and

- (2) for instrument approaches with decision heights below 200 feet, the approach weight of the aeroplane, taking into account the take-off weight and the fuel expected to be consumed in flight, allows a missed approach net-climb-gradient, assuming that the critical engine is inoperative in the approach configuration, of-
- (i) at least 2.5%; or
  - (ii) at least the net-climb-gradient required to clear any obstacles in the missed approach flight path in accordance with 135.213.

### **135.223. Landing distance - dry runway**

(a) A holder of an air operator certificate must ensure that, for each aeroplane the certificate holder operates, the landing weight for the estimated time of landing will not exceed the landing weight specified in the aeroplane flight manual.

(b) A holder of an air operator certificate must ensure that, for each aeroplane the certificate holder operates, the landing weight of the aeroplane for the estimated time of landing at the destination aerodrome and at any alternate aerodrome allows a full-stop landing from 50 feet above the threshold within 85% of landing distance available (LDA).

(c) When calculating the landing weight in accordance with paragraph (b), the holder of an air operator certificate must take account of-

- (1) aerodrome elevation; and
- (2) ambient temperature at the aerodrome; and
- (3) the type of runway surface and the runway surface condition; and
- (4) the runway slope in the direction of landing; and
- (5) not more than 50% of the reported head-wind component or not less than 150% of the reported tail-wind component.

(d) For dispatch of an aeroplane to land in accordance with paragraphs (b) and (c), the holder of an air operator certificate must assume that the aeroplane lands on the most favourable runway taking into account-

- (1) the forecast meteorological conditions; and
- (2) surrounding terrain; and
- (3) approach and landing aids; and
- (4) obstacles within the missed approach flight path.

(e) If the holder of an air operator certificate is unable to comply with paragraph (d) for the destination aerodrome, the aeroplane may be dispatched if an alternate aerodrome is designated that permits compliance with paragraphs (a), (b), and (c).

**135.225. Landing distance - wet and contaminated runways**

(a) Each holder of an air operator certificate shall ensure that, for each aeroplane it operates-

- (1) when the appropriate weather reports or forecasts, or a combination of them, indicate that the runway at the estimated time of arrival of the aeroplane may be wet, the LDA is at least 115% of the landing distance required by 135.223; and
- (2) when the appropriate weather reports or forecasts, or a combination of them, indicate that the runway at the estimated time of arrival of the aeroplane may be contaminated, the LDA is at least-
  - (i) the landing distance required by paragraph (a)(1); or
  - (ii) the landing distance determined in accordance with contaminated runway landing distance data.

(b) A landing distance on a wet runway shorter than that required by paragraph (a)(1), but not less than that required by 135.223, may be used if data specifies a shorter landing distance on wet runways.

**135.227. Steep approach and short landing techniques**

A holder of an air operator certificate may perform steep approach procedures using approach slope angles of 4.5°, or more, and with screen heights of less than 50 feet but not less than 35 feet, if-

- (1) the aeroplane flight manual states the maximum authorised approach slope angle, any other limitations, procedures, including emergency procedures, for the steep approach, as well as amendments for the field length data when using steep approach criteria; and
- (2) for air operations performed under IFR, an approach slope indicator system comprising of at least a visual approach slope indicating system is available for the runway to be used at the aerodrome at which steep approach procedures are to be conducted; and
- (3) for air operations performed under IFR, weather minima are specified and approved for each runway to be used with a steep approach; and
- (4) for air operations performed under IFR, consideration is given to-
  - (i) obstacles; and
  - (ii) the type of approach slope indicator reference and runway guidance such as visual aids, MLS, GPS, ILS, LOC, VOR, or NDB; and
  - (iii) the minimum visual reference to be required at DH and MDA; and
  - (iv) usable airborne equipment; and
  - (v) pilot qualification and special aerodrome familiarisation; and
  - (vi) aeroplane flight manual limitation and procedures; and

(vii) missed approach criteria.

### **135.228. FAR Part 23 commuter category and SFAR41 aeroplanes**

Rules 135.229 to 135.235 inclusive apply to each holder of an air operator certificate conducting air operations using FAR Part 23 commuter category and SFAR41 aeroplanes.

### **135.229. Take-off distance (FAR Part 23 commuter category or SFAR 41 or FAR Part 135 App.A)**

(a) Each holder of an air operator certificate shall ensure that, for each aeroplane it operates, the take-off weight does not exceed the maximum take-off weight specified in the aeroplane flight manual.

(b) When calculating the maximum take-off weight to determine compliance with paragraph (a), the holder of an air operator certificate shall, assuming that the critical engine fails at  $V_{EF}$  and using a single  $V_1$ , ensure that-

- (1) the accelerate-stop distance required does not exceed the accelerate-stop distance available (ASDA); and
- (2) the take-off distance required does not exceed the TODA; and
- (3) any clearway forming part of the TODA shall not exceed half the length of the TORA; and
- (4) the take-off run required does not exceed the TORA using  $V_1$  for the rejected and continued take-off.

(c) When calculating the maximum take-off weight in accordance with paragraph (b), the holder of an air operator certificate shall take account of-

- (1) aerodrome elevation; and
- (2) the pressure altitude of the aerodrome when the atmospheric pressure varies by more than 1% from the International Standard Atmosphere; and
- (3) ambient temperature at the aerodrome; and
- (4) the type of runway surface and the runway surface condition; and
- (5) the runway slope in the direction of take-off; and
- (6) not more than 50% of the reported head-wind component or not less than 150% of the reported tail-wind component.

### **135.231. Net take-off flight path**

(a) Each holder of an air operator certificate shall ensure that, for each aeroplane it operates assuming that the critical engine is inoperative, all obstacles within the net take-off flight path are cleared vertically by at least-

- (1) 35 feet in the case of a take-off performed by an aeroplane that is intended to use a bank angle not exceeding  $15^\circ$ ; and

- 
- (2) 50 feet in the case of a take-off performed by an aeroplane that is intended to use a bank angle exceeding 15°.
- (b) For the purpose of paragraph (a), an obstacle shall be deemed to be within the net take-off flight path if the lateral distance from the obstacle to the intended line of flight does not exceed-
- (1) where the intended flight path does not require a track change exceeding 15°-
    - (i) 45 m plus 0.10D, to a maximum of 600 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 300 m; or
    - (ii) for day operations in VMC, 30 m plus 0.10D to a maximum of 600 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 300 m; or
  - (2) where the intended flight path requires a track change exceeding 15°-
    - (i) 45 m plus 0.10D, to a maximum of 900 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 600 m; or
    - (ii) for day operations in VMC, 30 m plus 0.10D to a maximum of 600 m or, if the holder of an air operator certificate has established visual or radio navigation track guidance procedures for the pilot, to a maximum of 300 m.
- (c) For the purpose of paragraph (b), D is the horizontal distance the aeroplane will travel from the end of the TODA.
- (d) When calculating the net take-off flight path in accordance with paragraph (a), the holder of an air operator certificate shall ensure-
- (1) the following factors are taken into account-
    - (i) take-off weight at the commencement of the take-off run; and
    - (ii) aerodrome elevation; and
    - (iii) pressure altitude at the aerodrome when the atmospheric pressure varies by more than 1% from the International Standard Atmosphere; and
    - (iv) ambient temperature at the aerodrome; and
    - (v) not more than 50% of the reported head-wind component or not less than 150% of the reported tail-wind component; and
  - (2) a track change exceeding 15° is not made before a height of 50 feet above the take-off surface has been achieved; and
  - (3) unless otherwise authorised by the Director-
    - (i) a bank angle exceeding 15° is not made before a height of 50 feet above the take-off surface has been achieved; and
    - (ii) the bank angle up to and including a height of 400 feet above the take-off surface does not exceed 20°; and
-

- (iii) the bank angle above a height of 400 feet above the take-off surface does not exceed 25°; and
- (4) adequate allowance is made for-
  - (i) the effect of the bank angle on operating speeds and flight path; and
  - (ii) distance increments resulting from increased operating speeds; and
  - (iii) retention of stall margin and loss of climb gradient in accordance with 135.215.

### **135.233. Landing distance - runways**

- (a) A holder of an air operator certificate must ensure that, for each aeroplane it operates, the landing weight for the estimated time of landing will not exceed the landing weight specified in the aeroplane flight manual.
- (b) A holder of an air operator certificate must use the following procedures for calculating the landing distance for an aeroplane on a runway:
  - (1) that have been approved under paragraph (c); or
  - (2) as provided in Appendix D.
- (c) The Director may, after taking account of the following matters, approve an application by a holder of an air operator certificate for procedures referred to in paragraph (b)(1) if satisfied:
  - (1) whether or not the aeroplane proposed has performance data issued by the manufacturer supporting the procedures that is available for use by the pilot or flight crew; and
  - (2) whether the operator has reliable access to either-
    - (i) accurate, real-time reporting on runway conditions that is appropriate for the permitted procedures to be used; or
    - (ii) data that enables the operator to identify equivalent conditions; and
  - (3) the margin of error that should be applied when calculating landing distance using the permitted procedures which must take into account the following:
    - (i) the implications of pilot technique on landing distance;
    - (ii) the implications of unexpected environmental conditions at the destination aerodrome;
    - (iii) whether the calculation is being undertaken at the dispatch stage or en-route;
    - (iv) whether the margin of error is supported by the reporting of the runway conditions; and
  - (4) whether all personnel involved in the reporting of runway conditions, calculation of data and operation of the flight have had appropriate training in the use of the procedures.

## Subpart E - Weight and Balance

### 135.301. Purpose

This Subpart prescribes the rules governing the control of loading and weight and balance on an aircraft.

### 135.303. Goods, passenger, and baggage weights

(a) Subject to paragraphs (b), (c), and (d), a holder of an air operator certificate must ensure that for every air operation conducted under the authority of the certificate the weights of the following items that are carried on the aircraft are established:

- (1) the total weight of passengers:
- (2) the total weight of crew members:
- (3) the total weight of goods and baggage.

(b) The total weight of passengers (excluding their carry-on baggage (if any)) must be determined by using only 1 of the following:

- (1) the actual weight of every passenger:
- (2) a standard weight for every passenger that is established by the certificate holder and detailed in the certificate holder's exposition:
- (3) a weight that is declared by the passenger plus an additional 4 kg for every passenger.

(c) The total weight of crew members (excluding their carry-on baggage (if any)) must be established by using-

- (1) the actual weight of every crew member; or
- (2) a standard weight for every crew member that is established by the certificate holder and detailed in the certificate holder's exposition.

(d) The total weight of goods and baggage must be determined by using-

- (1) the actual weight of the goods and baggage; or
- (2) for special operations operating from a remote aerodrome where it is not practicable to establish the actual weight of the goods and baggage, the certificate holder must establish procedures to enable the pilot-in-command to assess the weight of the goods and baggage.

(e) A holder of an air operator certificate who intends to establish a standard weight to be detailed in the certificate holder's exposition for use under paragraphs (b)(2) or (c)(2) must establish the respective standard weight in accordance with a survey program that is acceptable to the Director.

(f) A holder of an air operator certificate who intends to use declared weights for passengers under paragraph (b)(3), or standard weights for passengers under paragraph (b)(2) or for crew members under paragraph (c)(2) must establish procedures that are acceptable to the Director to ensure that, if the weight of a passenger or crew member is clearly greater than the declared weight or standard

weight being used, a weight that is more representative of the actual weight of the person is used.

(g) A holder of an air operator certificate who uses a passenger declared weight under paragraph (b)(3) must ensure that the passenger is not encouraged to declare a weight that is less than the passenger's actual weight.

### **135.305. Aircraft load limitations**

(a) A holder of an air operator certificate must ensure that-

- (1) the limitations contained in the aircraft flight manual, or other approved document, relating to the weight and balance of an aircraft are complied with; and
- (2) maximum allowable weights are not exceeded for zero fuel, manoeuvre, take-off, and landing; and
- (3) the aircraft's centre of gravity is within the limits referred to in paragraph (a)(1) at departure, and will remain within those limits throughout the air operation.

(b) A pilot-in-command of an aircraft must, before taking-off on an air operation, assess the information required under rules 135.857(b)(11) to (b)(15) to ensure that the aircraft will remain within the weight and balance limitations specified in the flight manual for the duration of the flight.

## **Subpart F - Instruments and Equipment**

### **135.351. Purpose**

This Subpart prescribes the instruments and equipment required for aircraft.

### **135.353. General**

A holder of an air operator certificate must ensure that an air operation does not commence unless-

- (1) the aircraft is equipped-
  - (i) with the type of instruments and equipment required by Subpart F of Part 91 and this Subpart; and
  - (ii) with the number of instruments and equipment to ensure that the failure of any independent system required for either communication or navigation purposes, or both, will not result in the inability to communicate and navigate safely as required for the route being flown; and
- (2) the instruments and equipment installed in the aircraft comply with the specifications and airworthiness design standards listed in-
  - (i) Appendix B to this Part; or

- (ii) Appendix B to Part 125; or
  - (iii) Appendix C to Part 21; or
  - (iv) Part 26; or
  - (v) alternative specifications or design standards acceptable to the Director;  
and
- (3) the instruments and equipment have been installed in accordance with the aircraft manufacturer's instructions or other instructions acceptable to the Director; and
- (4) except as may be provided by a MEL approved under rule 91.539 for use for the aircraft, the instruments and equipment installed in the aircraft are in operable condition.

### **135.355. Seating and restraints**

A holder of an air operator certificate must ensure that every aircraft that is operated under the authority of the certificate is equipped with a shoulder harness or single diagonal shoulder belt for each flight crew member seat.

### **135.357. Additional instruments**

Each holder of an air operator certificate shall ensure that each of its aircraft is equipped with-

- (1) the powerplant instruments required by the airworthiness design standards in paragraph (a)(1)(i) or (iv) of Appendix C of Part 21; and
- (2) a means of indicating for each reversible pitch propeller, actuated by the propeller blade angle or directly responsive to it, that the propeller is in beta range or reverse pitch.

### **135.359. Night flight**

Each holder of an air operator certificate shall ensure that each of its aircraft operated at night is equipped with-

- (1) a landing light; and
- (2) a light in each passenger compartment.

### **135.361. Instrument flight rules**

(a) Except as provided in paragraph (b), a holder of an air operator certificate must ensure that every aircraft that is operated under IFR under the authority of the certificate is equipped with-

- (1) the following that must be in addition to, and independent of, the instruments and equipment required under Subpart F of Part 91:
  - (i) a means of indicating airspeed, calibrated in knots, with a means of preventing malfunctioning due to either condensation or icing;
  - (ii) a means of indicating sensitive pressure altitude calibrated in feet; and

- (2) spare bulbs for flight compartment instrument illumination; and
- (3) spare fuses.

(b) An additional means of indicating aircraft attitude, powered by a power source that is separate from the power source for the attitude indication required under Subpart F of Part 91, may be installed instead of the additional means of indicating air speed required by paragraph (a)(1)(i).

### **135.363. Emergency equipment**

A holder of an air operator certificate must ensure that an aeroplane is not used to conduct an air operation under the authority of the certificate unless-

- (1) despite the seat breaks specified in rules 91.523(a) and (b), the aircraft is equipped in accordance with the requirements of rule 91.523; and
- (2) the requirements in 91.523(d) and (e) are met for the equipment required by subparagraph (1).

### **135.365. Reserved**

### **135.367. Cockpit voice recorder**

A holder of an air operator certificate must ensure that each of its helicopters is equipped with a CVR if-

- (1) the helicopter's flight manual requires 2 or more flight crew members; and
- (2) the helicopter has a certificated passenger seating capacity of 10 seats or more.

### **135.369. Flight data recorder**

A holder of an air operator certificate must ensure that each of its helicopters with a certificated passenger seating capacity of 10 seats or more is equipped with a FDR in accordance with paragraph B.4 of Appendix B.

### **135.371. Additional attitude indicator**

Each holder of an air operator certificate shall ensure that each of its turbojet or turbofan powered aircraft is equipped with a third presentation of attitude.

## Subpart G - Maintenance

### 135.401. Purpose

This Subpart prescribes rules for maintenance for each aircraft operated under this Part.

### 135.402. Option for maintenance

(a) Subject to paragraph (b), a holder of an air operator certificate must identify in the maintenance program applicable to each aircraft that is operated under the authority of the certificate, whether the aircraft is subject to-

- (1) an annual review of airworthiness in accordance with rule 91.615; or
- (2) a maintenance review in accordance with rule 135.415.

(b) A holder of a general aviation air operator certificate whose organisational management system does not include the requirements of rule 119.124(c) must ensure that each aircraft that is operated under the authority of the certificate is subject to an annual review of airworthiness in accordance with rule 91.615.

(c) A holder of an air operator certificate must ensure that the maintenance on an aircraft that is subject to a maintenance review, as identified under paragraph (a)(2), is performed by-

- (1) a maintenance organisation certificated under Part 145; or
- (2) for maintenance that is performed in another State that is party to a technical arrangement, a maintenance organisation that is certificated or appropriately authorised by the State to perform maintenance on the aircraft type in accordance with the conditions specified in the technical arrangement.

(d) A holder of an air operator certificate must ensure that the maintenance on a helicopter that has a MCTOW of more than 5700 kg or a certificated passenger seating capacity of 10 seats or more that is operated under the authority of the certificate is performed by-

- (1) a maintenance organisation certificated under Part 145; or
- (2) for maintenance that is performed in another State that is party to a technical arrangement, a maintenance organisation that is certificated or appropriately authorised by the State to perform maintenance on the aircraft type in accordance with the conditions specified in the technical arrangement.

**135.403. Responsibility for airworthiness**

(a) A holder of an air operator certificate is responsible for the airworthiness of-

- (1) every aircraft that is operated under the authority of the certificate; and
- (2) any equipment installed in or attached to the aircraft.

(b) A holder of an air operator certificate must ensure that every aircraft that is operated under the authority of the certificate is maintained in accordance with the maintenance program required under rule 119.63 or rule 119.111.

**135.405. Condition monitored maintenance programs**

The holder of an air operator certificate who utilises condition monitoring as part of a maintenance program for an aircraft must provide the Director, each month, with a maintenance reliability report that contains details of-

- (1) aircraft utilisation; and
- (2) pilot reports regarding aircraft airworthiness; and
- (3) aircraft mechanical delays and flight cancellations; and
- (4) unscheduled engine shutdowns; and
- (5) unscheduled engine removals; and
- (6) unscheduled component removals; and
- (7) confirmed component failures; and
- (8) incidents regarding aircraft airworthiness; and
- (9) MEL usage.

**135.407. Reserved****135.409. Reserved****135.411. Reserved****135.413. Reserved****135.415. Maintenance review**

(a) A holder of an air operator certificate who, under rule 135.402(a), has identified in the appropriate maintenance program that an aircraft is to be subject to a maintenance review must ensure that-

- (1) the aircraft is not operated under the authority of the certificate unless a maintenance review of the aircraft has been carried within the previous 12 months; and
- (2) each maintenance review that is carried out is certified in accordance with paragraph (d).

(b) Except as provided in paragraph (c), the holder of an air operator certificate must ensure that a maintenance review for an aircraft is not certified as having been carried out unless-

- (1) the aircraft conforms to its type certificate data sheet or equivalent type data that is acceptable to the Director; and
- (2) for an aircraft that is required by rule 91.509(b) to be fitted with a time-in-service recorder,-
  - (i) the time-in-service recorder reading is recorded in the appropriate maintenance logbook; and
  - (ii) the aircraft's total time-in-service recorded in the technical log is compared with the time-in-service recorder reading; and
  - (iii) any discrepancy between the time-in-service figures referred to in paragraph (b)(2)(ii) is reported in accordance with rule 43.155(a)(4); and
- (3) since the last maintenance review-
  - (i) every modification and repair has been correctly recorded and conforms to the applicable technical data listed in Appendix D of Part 21; and
  - (ii) due maintenance specified in the applicable maintenance program for the aircraft has been completed within the time period specified; and
  - (iii) every applicable airworthiness directive has been complied with in accordance with the requirements prescribed in Part 39; and
  - (iv) every defect entered in the technical log has been rectified or properly deferred in accordance with the procedures in the certificate holder's exposition; and
  - (v) every applicable certification for release-to-service has been made in accordance with Subpart C of Part 43.

(c) A holder of an airline air operator certificate may certify a maintenance review for an aircraft on the basis of continuing compliance with a maintenance program acceptable to the Director if-

- (1) the maintenance program samples every requirement of paragraph (b) during the maintenance review period; and
- (2) the maintenance review is individually certified for each of the certificate holder's aircraft that are subject to a maintenance review.

(d) The holder of an air operator certificate must ensure that the person who carries out a maintenance review for an aircraft-

- (1) is authorised by the certificate holder and has experience, that is at least equivalent to the experience required for the grant of an appropriate AMEL rating, for the type of aircraft; and
- (2) carries out the maintenance review in accordance with the applicable paragraph (b) or (c); and

- (3) certifies that the maintenance review has been carried out by entering the following statement in the appropriate maintenance logbook with the person's signature, authorisation number, and the date of entry:

*“The maintenance review for this aircraft and such of its equipment as is necessary for its continued airworthiness has been carried out in accordance with the requirements of Civil Aviation Rule 135.415.”*

## **Subpart H - Crew Member Requirements**

### **135.501. Purpose**

This Subpart prescribes the rules governing the use of flight crew.

### **135.503. Assignment of flight crew duties**

(a) A holder of an air operator certificate must ensure that every person assigned as a flight crew member on an air operation conducted under the authority of the certificate-

- (1) holds a current pilot licence and rating appropriate to the category of aircraft and to the tasks assigned; and
- (2) holds a current class 1 medical certificate appropriate to the task assigned; and
- (3) meets all the experience, training, and competency requirements for the task assigned; and
- (4) meets all route and aerodrome qualification requirements for the intended operation.

(b) A holder of an air operator certificate must designate, for each period of an air operation conducted under the authority of the certificate-

- (1) a pilot-in-command; and
- (2) a co-pilot when two or more pilots are assigned for the operation; and
- (3) any other flight crew member that may be required for the type of operation to be performed.

### **135.505. Pilot-in-command consolidation of operating experience on type**

(a) A holder of an air operator certificate must ensure that before designating a pilot to act as a pilot-in-command of an aircraft on an air operation conducted under the authority of the certificate, the pilot has completed the following consolidation of operating experience on the make and basic model of aircraft type:

- (1) for a single-engine aircraft, 5 hours flight time and 5 take-offs and landings:

- (2) for a multi-engine aircraft, 10 hours flight time and 10 take-offs and landings:
- (3) for a turbojet or turbofan aeroplane, 15 hours flight time and 10 take-offs and landings:
- (4) for single-pilot air operations under IFR or VFR at night,-
  - (i) 40 hours flight time on the aircraft type; or
  - (ii) for subsequent aircraft types of the same category, other than the initial aircraft type flown single-pilot on air operations under IFR, or flown single-pilot on air operations under VFR at night, the applicable flight time required by paragraphs (a)(1), (a)(2), or (a)(3).

(b) Subject to paragraphs (c) and (d), after the pilot has completed aircraft type rating training, introduction training required under rule 135.557 or transition training required under rule 135.559, and the competency check required under rule 135.607, the consolidation of operating experience required by paragraph (a) must be acquired as follows:

- (1) in flight during air operations performed; and
- (2) for an aircraft not previously used to perform an air operation under the authority of the holder's air operator certificate, operating experience acquired in the aircraft type during proving flights or ferry flights may be used to meet this requirement; and
- (3) while performing the duties of a pilot-in-command under the supervision of a designated pilot-in-command who must-
  - (i) be authorised in writing by the certificate holder to supervise a pilot undergoing consolidation of operating experience on the aircraft type; and
  - (ii) occupy a flight crew member seat while supervising; and
- (4) for paragraph (a)(4)(i), the 40 hours flight time must include-
  - (i) for air operations under IFR, a minimum of 10 hours flight time on air operations conducted under IFR; or
  - (ii) for air operations under VFR at night, a minimum of 10 take-offs and landings at night; and
- (5) the consolidation of operating experience required by paragraph (a) must be completed within 180 days from the successful completion of the competency check; and
- (6) if the pilot fails to complete the applicable consolidation of operating experience on or before the 180th day as required in paragraph (5), the pilot must complete a competency check before recommencing the required consolidation of operating experience.

(c) For the purpose of the pilot acquiring the operating experience required under paragraph (a)-

- (1) the flight time and take-off and landing experience required in paragraphs (a)(1), (a)(2), and (a)(3) may be accrued in a flight simulator approved by the Director for the purpose; and
- (2) if the time required by paragraph (a) is conducted in a single-pilot aircraft, the flight time must be entered as *pilot-in-command under supervision* in the pilot's logbook and certified by the designated pilot-in-command who supervised the pilot performing the consolidation of operating experience.

(d) Paragraph (b)(1) does not apply if the aircraft is certificated for 2 or less passenger seats.

### **135.507. Reserved**

### **135.509. Experience requirements for IFR pilots**

A holder of an air operator certificate must not designate a person as pilot-in-command of an aircraft performing an air operation under IFR under the authority of the certificate, unless the person-

- (1) has at least 750 hours of flight time as a pilot, including 150 hours of cross-country flight time which must include at least 50 hours cross-country flight time conducted under an IFR flight plan; and
- (2) 50 hours of actual or simulated instrument time of which 25 hours may be in a flight simulator approved for this purpose; and
- (3) for night operations, 25 hours of night flight time.

### **135.511. Minimum flight crew**

(a) A holder of an air operator certificate must not operate an aircraft on an air operation under IFR under the authority of the certificate with one pilot unless-

- (1) the aircraft flight manual permits the aircraft to be operated by one pilot under IFR; and
- (2) the aircraft is equipped with an operative autopilot or stabilisation system capable of operating the aircraft controls to maintain flight and manoeuvre the aircraft about the roll and pitch axes with an automatic heading and altitude hold; and
- (3) the aircraft is fitted with a headset that includes a boom microphone and facility for control column transmit-receive switching at the pilot-in-command station; and

(4) the pilot-in-command has met the other applicable requirements of this Part.

(b) A holder of an air operator certificate must not operate an aircraft on an air operation with 2 pilots unless the functions of each pilot relating to the operation and safety of the air operation are assigned in writing by the certificate holder, and the aircraft is equipped with-

- (1) two pilot stations that allow either pilot to have an unobstructed view of every primary flight and engine instrument and control display; and
- (2) a crew member intercom system; and
- (3) either-
  - (i) fully functioning dual controls; or
  - (ii) pitch, roll, yaw, and engine power controls that can be operated at either pilot station.

## **Subpart I - Training**

### **135.551. Purpose**

This Subpart prescribes rules governing the establishment and implementation of a training program for crew members.

### **135.553. General**

(a) Each holder of an air operator certificate shall establish a training program to ensure that each of its crew members are trained and competent to perform their assigned duties.

(b) Each holder of an air operator certificate shall ensure that each crew member is trained in accordance with the training program contained in the certificate holder's exposition.

(c) The holder of an air operator certificate shall ensure that its training program is controlled by the certificate holder.

(d) The holder of an air operator certificate may-

- (1) conduct the training program; or
- (2) contract with the holder of an aviation training organisation certificate issued under Part 141, to conduct the training program where the Part 141 certificate authorises the holder to conduct that training; or
- (3) for a training program conducted outside Mongolia, contract with an organisation that meets an equivalent standard specified by Part 141.

**135.555. Training records**

Each holder of an air operator certificate shall maintain accurate records of all required training undertaken by its crew members.

**135.557. Introduction training for crew members**

(a) A holder of an air operator certificate must ensure that every crew member, who has not qualified and served as a crew member on an aircraft operated under the authority of the certificate, completes introduction training conducted-

- (1) in a structured manner; and
- (2) in accordance with a syllabus that includes training applicable to-
  - (i) the aircraft type to be used, including special equipment fitted for the intended operation; and
  - (ii) the routes and aerodromes appropriate to the intended operation; and
  - (iii) crew member assignments, functions, and responsibilities; and
  - (iv) location and operation of emergency equipment available for use by crew members; and
  - (v) location and use of oxygen equipment; and
  - (vi) location and use of every normal and emergency exit, including an evacuation slide and escape rope; and
  - (vii) the certificate holder's policies and procedures appropriate to its air operations.

(b) The holder of an air operator certificate may vary the syllabus for an individual crew member if-

- (1) the variation is recorded in the crew member's record of training; and
- (2) the certificate holder certifies the variation made and the reasons for the variation in the crew member's record of training.

**135.559. Transition training for crew members**

(a) Each holder of an air operator certificate shall ensure that each of its crew members already qualified and serving as a crew member on an air operation authorised by the certificate holder's certificate, completes appropriate transition training if-

- (1) the crew member is changing from one aircraft type or variant to another type or variant; or
- (2) there is a change to the nature of the operation, or new equipment is introduced, which affects the operation of the aeroplane type or variant.

(b) The transition training of the training program referred to in paragraph (a) shall address at least the following-

- (1) the use of all safety and emergency equipment and procedures applicable to the aircraft type or variant; and

- (2) new procedures or equipment introduced on the existing aircraft type or variant.

### **135.561. Recurrent training for crew members**

Each holder of an air operator certificate shall ensure that each of its crew members are adequately trained, current, and proficient for each aircraft, crew member position, and type of operation, in which the crew member serves.

### **135.563. Manoeuvres not authorised while carrying passengers**

(a) A holder of an air operator certificate must ensure an abnormal, unusual, or emergency training manoeuvre is not performed during an air operation conducted under the authority of the certificate while carrying passengers.

(b) An abnormal, unusual or emergency manoeuvre referred to in paragraph (a) includes, but is not limited to the following:

- (1) simulated engine failure where engine power is reduced or stopped to simulate loss of engine power:
- (2) simulated asymmetric flight:
- (3) any simulated aircraft system failure that activates a visual or oral warning system that can be seen or overheard by passengers:
- (4) any other simulated system failure that can compromise the safe operation of the flight.

### **135.565. Flight crew training program**

(a) Each holder of an air operator certificate shall establish a flight crew training program.

(b) Each holder of an air operator certificate shall ensure that its flight crew training program includes introduction, transition, and recurrent training requirements applicable to-

- (1) the aircraft type to be used, including special equipment fitted for the intended operation; and
- (2) the routes and aerodromes appropriate to the intended operation; and
- (3) the certificate holder's policies and procedures appropriate to its operations.

(c) The training program shall include, where appropriate, both ground and flight instruction utilising aircraft or an approved flight simulator.

(d) The training shall be conducted by a flight crew member instructor who meets the requirements of 135.567.

(e) Each holder of an air operator certificate shall accurately record each separate qualification of each flight crew member and inform the crew member involved in writing of the qualification gained.

### **135.567. Flight crew member instructor qualifications**

A holder of an air operator certificate must not designate a pilot to perform the function of a pilot instructor in the flight crew member training program required by this Part unless that pilot-

- (1) is qualified to act as pilot-in-command of the aeroplane type performing the air operation; and
- (2) holds a Category A, B, or D flight instructor rating; and
- (3) completes introduction and recurrent training requirements applicable to the instruction carried out.

## **Subpart J - Crew Member Competency Requirements**

### **135.601. Purpose**

This Subpart prescribes the rules governing the operational competency assessment of flight crew members and crew members.

### **135.603. General**

(a) A holder of an air operator certificate must establish a crew member competency assessment program under this Subpart to ensure that each person who is assigned to perform the function of a crew member on an aeroplane conducting an air operation is competent to perform the assigned crew member function.

(b) The holder of an air operator certificate may-

- (1) implement the crew member competency assessment program required by paragraph (a) under the authority of the certificate; or
- (2) contract with the holder of an aviation training organisation certificate issued under the Act and Part 141, to conduct the competency assessments in accordance with the crew member competency assessment program required by paragraph (a), if the aviation training organisation certificate authorises the holder to conduct the competency assessments; or
- (3) for a competency assessment conducted outside Mongolia, contract with an organisation that meets an equivalent standard specified in Part 141 to conduct the assessment in accordance with the applicable requirements specified in the crew member competency assessment program required by paragraph (a).

### 135.605. Flight examiner qualifications

(a) Except as provided in paragraph (b), each holder of an air operator certificate shall ensure that each person performing the functions of a flight examiner in its operational competency assessment program established under this Part-

- (1) is type rated in the aircraft used to conduct the operation; and
- (2) is familiar with the types of operations conducted by the certificate holder; and
- (3) has an appropriate current flight examiner rating; and
- (4) completes introduction and recurrent training requirements applicable to the testing carried out.

(b) Where the operational competency assessment referred to in paragraph (a) is carried out in a flight simulator, the person who is performing the functions of a flight examiner shall-

- (1) have satisfactorily completed a competency check as pilot-in-command in a type of operation to which this Part applies; and
- (2) have an appropriate flight examiner rating; and
- (3) complete introduction and recurrent training requirements applicable to the testing carried out.

### 135.607. Flight crew competency assessments

A holder of an air operator certificate must ensure that-

- (1) **each pilot acting as pilot-in-command has**, within the immediately preceding 12 months, passed a route check and aerodrome proficiency that is administered by a flight examiner and that-
  - (i) consists of a ground-based procedure check over 1 route segment, and a flight check with 1 or more landings at an aerodrome representative of the operations to be flown; and
  - (ii) establishes that the pilot can satisfactorily perform the duties and responsibilities of a pilot-in-command in air operations appropriate to this Part; and
- (2) **each pilot conducting VFR operations has**, within the immediately preceding 12 months, successfully completed a competency assessment, that is administered by a flight examiner and that covers procedures, including emergency procedures, of the pilot's flying skill in an aircraft type normally used by the pilot in the operation; and
- (3) **each pilot acting as a flight crew member of an aircraft operating under IFR has**, within the immediately preceding 6 months, successfully completed a competency assessment that is administered by a flight examiner and that-

- (i) covers procedures, including emergency procedures, appropriate to the equipment fitted to the aircraft and to the type of operations to which the pilot is assigned by the certificate holder; and
  - (ii) is conducted in each aircraft type used by the pilot in the operation unless the aircraft has a passenger seating configuration of 9 seats or less, excluding any required pilot seat, in which case the check may be taken by rotation in each aircraft type with 1 in each 6-month period; and
- (4) **each pilot has**, within the immediately preceding 12 months, successfully completed a written or oral test of the pilot's knowledge of the following:
- (i) the relevant Civil Aviation Rules and the certificate holder's operations specifications and exposition:
  - (ii) the aircraft systems, performance, operating procedures, and the content of the flight manual for each aircraft type normally flown by the pilot:
  - (iii) navigation, ATS, and meteorology:
  - (iv) special flight operations as appropriate to the type of operation normally conducted by the pilot:
  - (v) new equipment, procedures, and techniques:
  - (vi) location and operation of emergency equipment fitted to an aircraft of the type normally flown by the pilot; and
- (5) the flight examiner who administered the check or test required under paragraphs (1), (2), (3) and (4)-
- (i) certifies in the training record for the pilot that the check or test has been completed and certifies the result of the check or test; and
  - (ii) if the check or test was completed satisfactorily, certifies in the pilot logbook in accordance with rule 61.29(a)(3) satisfactory completion of the check or test; and
- (6) flight crew competency checks are carried out in an aircraft or flight simulator approved for the purpose.

**135.609. Reserved**

**135.611. [Revoked]**

**135.613. Competency and testing records**

A holder of an air operator certificate must maintain an accurate record of all the competency assessments, route checks, and tests undertaken by each of its crew members in accordance with the procedures established under rule 119.67.

## Subpart K - Fatigue of Flight Crew

### 135.801. Purpose

This Subpart prescribes flight time limitations and other rules to minimise fatigue in flight crew members of aircraft engaged in air operations.

### 135.803. Operator responsibilities

(a) A operator of an aircraft must not cause or permit an air operation to be performed with the aircraft unless-

- (1) a scheme has been established for the regulation of flight and duty times for every person flying as a flight crew member in the aircraft; and
- (2) the scheme addresses the following factors if appropriate to the operator's type of operation:
  - (i) rest periods before flight:
  - (ii) acclimatisation:
  - (iii) time zones:
  - (iv) night operations:
  - (v) maximum number of sectors:
  - (vi) single-pilot operations:
  - (vii) two pilot operations:
  - (viii) two pilots plus additional flight crew members:
  - (ix) flight crew members' qualifications:
  - (x) mixed duties:
  - (xi) dead-head transportation:
  - (xii) reserve or standby period:
  - (xiii) flight duty period:
  - (xiv) in-flight relief:
  - (xv) type of operation:
  - (xvi) cumulative duty time:
  - (xvii) cumulative flight time:
  - (xviii) discretionary increases in flight time limitations or flight duty limitations or both:
  - (xix) circadian rhythm:
  - (xx) days off:
  - (xxi) record-keeping; and
- (3) the scheme for special operations, complies with the following:
  - (i) flight crew must not fly in excess of 160 hours in any 30 consecutive days:

- (ii) flight crew must have not less than 2 days free of duty in any 14 day period:
  - (iii) flight crew must have not less than 2 consecutive days free of duty in any 30 day period; and
- (4) the scheme is acceptable to the Director.
- (b) The operator of an aircraft performing an air operation must not cause or permit any person to fly in the aircraft as a flight crew member if the operator knows or has reason to believe that the person is suffering from, or, having regard to the circumstances of the flight to be undertaken, is likely to suffer from, such fatigue while the person is flying as may endanger the safety of the aircraft or its occupants.
- (c) The operator of an aircraft performing an air operations must-
- (1) keep an accurate record of the flight time and duty time of each flight crew member; and
  - (2) retain the flight time and duty time record required by paragraph (c)(1) for a period of 12 months from the date on which it was made.

#### **135.805. Flight crew member responsibilities**

- (a) A person must not act as a flight crew member of an aircraft performing an air operation if the person knows or suspects that he or she is suffering from, or, having regard to the circumstances of the flight to be undertaken, is likely to suffer from, such fatigue as may endanger the safety of the aircraft or its occupants.
- (b) A flight crew member must not perform other hire or reward flight duties while employed, or contracted by an air operator when such duties and flying in addition to that in air operations will exceed the flight or duty time limitations prescribed in the scheme required by 135.803(a)(1) relating to the flight crew member.
- (c) A person must not act as a flight crew member of an aircraft performing an air operation unless the person has ensured that the limitations prescribed in the scheme required by 135.803(a)(1) relating to the person are not exceeded.
- (d) Notwithstanding paragraph (c), the flight and duty time scheme limitations do not apply if the flight is one which ought to be made in the interests of safety or health of any person, in such cases it is the responsibility of the pilot-in-command to be satisfied that the safety of the flight is not endangered by reason of any flight crew member exceeding the applicable flight time limitations.

## **Subpart L - Manuals, Logs, and Records**

### **135.851. Purpose**

This Subpart prescribes the rules governing the use and retention of the manuals, logs, and records required for air operations performed.

### **135.853. Operating information**

Each holder of an air operator certificate shall ensure that the parts of the certificate holder's exposition relevant to the duties of a crew member are current and are accessible to the crew member for pre-flight planning, and in-flight.

### **135.855. Documents to be carried**

A holder of an air operator certificate must ensure that the following documents are carried on each air operation-

- (1) details of the operational flight plan; and
- (2) NOTAM and aeronautical information service briefing documentation appropriate to the operation; and
- (3) meteorological information appropriate to the operation; and
- (4) a copy of the load manifest; and
- (5) notification of dangerous goods; and
- (6) copies of the relevant aeronautical charts.

### **135.857. Daily flight record (Journey log book)**

(a) A holder of an air operator certificate must keep accurate daily flight records for every aircraft, unless the information is recorded in another document in a manner that enables the daily flight record details for every flight to be constructed.

(b) Daily flight records must contain the following details for every flight:

- (1) the date of the flight:
- (2) the name of the operator:
- (3) the name of the pilot-in-command:
- (4) the registration markings of the aircraft:
- (5) the total flight time:
- (6) the number of passengers:
- (7) the type of air operation:
- (8) the name or identification of the departure and destination aerodromes:
- (9) the flight number or estimated time of departure:

- (10) the total of, the empty weight of the aircraft, the weight of any removable equipment, the weight of consumables, and the weight of crew members:
- (11) the total weight of-
  - (i) passengers; and
  - (ii) goods; and
  - (iii) baggage:
- (12) the total weight of usable fuel:
- (13) the take-off weight:
- (14) evidence that the centre of gravity is within the specified limits:
- (15) the maximum allowable weights for the operation, including zero fuel weight, take-off weight, and landing weight for the operation:
- (16) an indication of the occasions when a more indicative weight is used under rule 135.303(f).

(c) Before every air operation the holder of an air operator certificate must ensure that the information required in paragraphs (b)(11) to (b)(15) is made available to the pilot-in-command in a timely manner to enable the pilot to make the assessment required by rule 135.305(b) regarding the weight and balance of the aircraft.

#### **135.859. Retention period**

- (a) Each holder of an air operator certificate shall ensure that the following information is retained for 12 months from the date it was completed:
  - (1) operational records:
  - (2) load manifest:
  - (3) notification of dangerous goods.
- (b) Each holder of an air operator certificate must ensure that each of its flight crew records of flight and duty time is retained for 12 months from the date of entry of the record.
- (c) Each holder of an air operator certificate must ensure that its records of training, checking, and qualifications of each crew member is retained until 12 months after the crew member has left the certificate holder's employment.
- (d) Each holder of an air operator certificate must ensure that its daily flight record is retained for a period of not less than 12 months after the date of the flight.

## **Appendix A - Reserved**

## **Appendix B - Instruments and Equipment Airworthiness Design Standards**

### **B.1. Reserved**

### **B.2. Reserved**

### **B.3. Cockpit voice recorder**

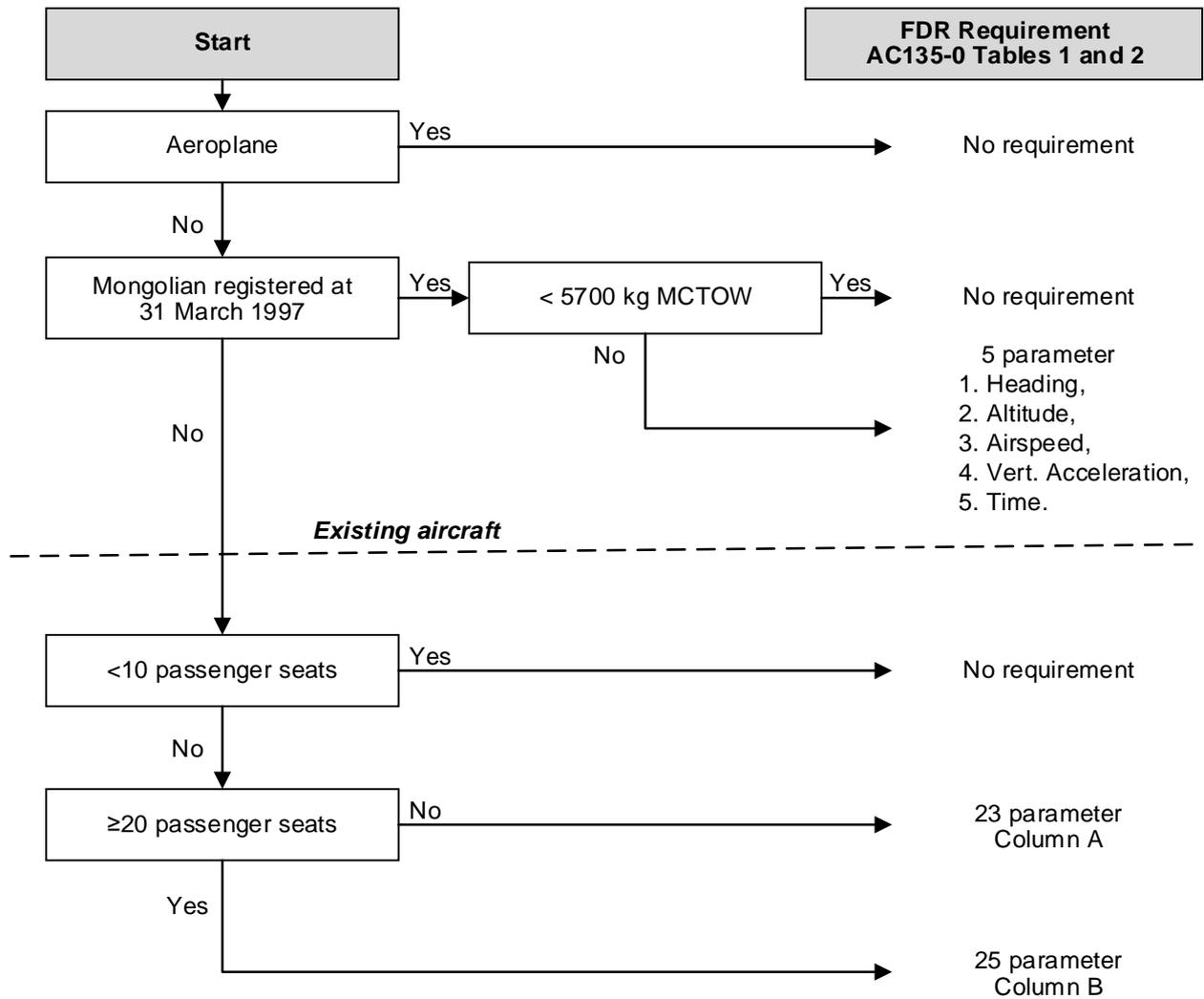
CVR shall-

- (1) meet the requirements of the TSO C84 series or the TSO C123 series; and
- (2) be fitted with an underwater locating device that meets the requirements of the TSO C121 series; and
- (3) have a minimum capacity of 30 minutes continuous recording time before any erasure.

### **B.4. Flight data recorder**

FDR shall-

- (1) meet the requirements of the TSO C124 series; and
- (2) be fitted with an underwater locating device that meets the requirements of the TSO C121 series; and
- (3) be of a non-ejectable type and capable of recording and storing 8 hours of data in a digital form; and
- (4) except as provided in an MEL, record the parameters as detailed in-
  - (i) FDR Decision Chart in Figure 1 of Appendix B; and
  - (ii) FDR Parameter Requirements and FDR Parameter Specifications prescribed in AC135-0.



**Figure 1. FDR Decision Chart**

**NOTE:** Part 135 - FDR Parameter Requirements and FDR Parameter Specifications are prescribed in AC135-0 (FDR Parameter Requirements and FDR parameter specifications).

## Appendix C - Runways

This Appendix is referred to in 135.77.

### C.1. Minimum runway widths

To determine the minimum runway width it is necessary to ascertain the aerodrome reference code (ARC) appropriate to the aeroplane type by using Table 1. The code is composed of two elements which are related to the aeroplane performance, characteristics, and dimensions. Element 1 is a number based on the aeroplane reference field length (ARFL) and element 2 is a letter based on the aeroplane wing span and outer main gear wheel span.

#### C.1.1. *Determining the ARC using Table 1*

- (a) **Firstly:** Determine the ARFL of the aeroplane to be operated. The ARFL is the minimum field length for take-off at maximum certificated take-off weight, at sea level, in standard atmospheric conditions, in still air, and with zero runway slope, as derived from the aeroplane flight manual;
- (b) **Secondly:** Determine the code number for element 1 applying the ARFL; and
- (c) **Thirdly:** Determine the code letter of element 2 corresponding to the dimensions of the aeroplane's wing and outer main gear span. The code letter for element 2 is the code letter which corresponds to the wing span, or the outer main gear span, whichever gives the most demanding code letter. For instance, if code letter C corresponds to the aeroplane's wing span and code letter D corresponds to the aeroplane's outer main gear span, the code letter selected would be D for that aeroplane type.

**Table 1.** Aerodrome Reference Code (ARC)

Code Element 1		Code Element 2		
Code Number	ARFL	Code Letter	Wing Span	Outer Main Gear Wheel Span
1	Less than 800 m	A	Up to but not including 15 m	Up to but not including 4.5 m
2	800 m up to but not including 1200 m	B	15 m up to but not including 24 m	4.5 m up to but not including 6 m
3	1200 m up to but not including 1800 m	C	24 m up to but not including 36 m	6 m up to but not including 9 m
4	1800 m and over	D	36 m up to but not including 52 m	9 m up to but not including 14 m
		E	52 m up to but not including 65 m	9 m up to but not including 14 m

**C.1.2. Determining the minimum runway width using Table 2**

Having determined the aeroplane's ARC, the runway widths are determined by entering at the applicable code number and then moving across to the value under the applicable code letter. For instance, if the aeroplane ARC is 2C, the required runway width is 30 m.

**Table 2.** Runway widths

Code Number	Code Letter				
	A	B	C	D	E
1	18 m	18 m	23 m	-	-
2	23 m	23 m	30 m	-	-
3	30 m	30 m	30 m	45 m	-
4	-	-	45 m	45 m	45 m

## Appendix D - Landing Distance Assessments for Runways

### D.1. Permitted landing distance assessments - Dry runway

The following procedure must be carried out by a holder of an air operator certificate under rule 135.233(b)(2) for calculating the landing distance where a runway is dry:

(a) A holder of an air operator certificate must ensure that, for each aeroplane it operates, the landing weight for the estimated time of landing allows a full-stop landing from 50 feet above the threshold within 70% of the LDA assuming that the aeroplane is landed.

(b) When calculating the landing weight under paragraph (a), the holder of an air operator certificate must take account of-

- (1) aerodrome elevation; and
- (2) ambient temperature at the aerodrome; and
- (3) the type of runway surface and the runway surface condition; and
- (4) the runway slope in the direction of landing; and
- (5) not more than 50% of the reported head-wind component or not less than 150% of the reported tail-wind component.

(c) The holder of an air operator certificate must, for an aeroplane to land as specified in paragraphs (a) and (b), assume that the aeroplane will land on the most favourable runway taking into account-

- (1) the forecast meteorological conditions; and
- (2) surrounding terrain; and
- (3) approach and landing aids; and
- (4) obstacles within the missed approach flight path.

(d) If the holder of an air operator certificate is unable to comply with paragraph (c) for the destination aerodrome, the certificate holder may dispatch an aeroplane if an alternate aerodrome is designated that permits compliance with paragraphs (a), (b), and (c).

### D.2. Permitted landing distance assessments - Wet or contaminated runway

A holder of an air operator certificate must carry out the following procedure under rule 135.233(b)(2) for calculating the landing distance where a runway is wet or contaminated.

A holder of an air operator certificate must ensure that, for each aeroplane it operates, when the relevant weather reports or forecasts or a combination of them, indicate that the runway at the estimated time of arrival of its aeroplane may be wet or contaminated, the LDA is at least 115% of the landing distance required by paragraph D.1.

### **D.3. TALPA procedures**

A holder of an air operator certificate must carry out the following alternate procedures under rule 135.233(b)(2) that provides for calculation of the landing distance for a runway-

- (1) utilising TALPA performance data provided by the aeroplane manufacturer to enable inflight calculation of landing performance by the flight crew as specified in the manufacturer's recommendations; and
- (2) utilising appropriate aerodrome data including, but not limited to, surface conditions and ambient weather, on runway conditions.

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