

Commission Regulation (EU) No 965/2012 of 5 October 2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

## [<sup>F1</sup>ANNEX VIII

### SPECIALISED OPERATIONS [PART-SPO]

#### Textual Amendments

- F1** Inserted by Commission Regulation (EU) No 379/2014 of 7 April 2014 amending Commission Regulation (EU) No 965/2012 laying down technical requirements and administrative procedures related to air operations pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

#### SPO.GEN.005 Scope

- [<sup>F2</sup>(a) This Annex applies to any specialised operation where the aircraft is used for specialised activities such as agriculture, construction, photography, surveying, observation and patrol, aerial advertisement or maintenance check flights.]

#### Textual Amendments

- F2** Substituted by Commission Implementing Regulation (EU) 2019/1384 of 24 July 2019 amending Regulations (EU) No 965/2012 and (EU) No 1321/2014 as regards the use of aircraft listed on an air operator certificate for non-commercial operations and specialised operations, the establishment of operational requirements for the conduct of maintenance check flights, the establishment of rules on non-commercial operations with reduced cabin crew on board and introducing editorial updates concerning air operations requirements (Text with EEA relevance).

- [<sup>F3</sup>(b) Notwithstanding (a), non-commercial specialised operations with other-than complex motor-powered aircraft shall comply with Annex VII (Part-NCO).]

#### Textual Amendments

- F3** Substituted by Commission Regulation (EU) 2015/140 of 29 January 2015 amending Regulation (EU) No 965/2012 as regards sterile flight crew compartment and correcting that Regulation.

- [<sup>F3</sup>(c) Notwithstanding point (a), the following operations with other-than complex motor-powered aircraft may be conducted in accordance with Annex VII (Part-NCO):]
- (1) competition flights or flying displays, on the condition that the remuneration or any valuable consideration given for such flights is limited to recovery of direct costs and a proportionate contribution to annual costs, as well as prizes of no more than a value specified by the [<sup>F4</sup>CAA].
  - (2) [<sup>F5</sup>parachute dropping, sailplane towing with an aeroplane or aerobatic flights performed either by a training organisation having its principal place of business in [<sup>F6</sup>the United Kingdom] and being referred to in Article 10a of Regulation (EU) No 1178/2011, or by an organisation created with the aim of promoting aerial sport or leisure aviation, on the condition that the aircraft is operated by the organisation on the basis of ownership or dry lease, that the flight does not generate profits distributed outside of the organisation, and that whenever non-members of the organisation are involved, such flights represent only a marginal activity of the organisation.]

**Changes to legislation:** There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)

**Textual Amendments**

- F4** Word in Annex 8 point SPO.GEN.005(c)(1) substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(2)(a)** (with Sch. 3) (as amended by S.I. 2019/1098, regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)
- F5** Substituted by [Commission Implementing Regulation \(EU\) 2018/1975 of 14 December 2018 amending Regulation \(EU\) No 965/2012 as regards air operations requirements for sailplanes and electronic flight bags](#).
- F6** Words in Annex 8 point SPO.GEN.005(c)(2) substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(2)(b)** (with Sch. 3) (as amended by S.I. 2019/1098, regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

**SUBPART GENERAL REQUIREMENTS**

**A**

**F7 SPO.GEN.100** .....

**Textual Amendments**

- F7** Annex 8 point SPO.GEN.100 omitted (31.12.2020) by virtue of [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(3)(a)** (with Sch. 3) (as amended by S.I. 2019/1098, regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

**SPO.GEN.101 Means of compliance**

Alternative means of compliance to those adopted by the [<sup>F8</sup>CAA] may be used by an operator to establish compliance with Regulation (EC) No 216/2008 and its Implementing Rules.

**Textual Amendments**

- F8** Word in Annex 8 point SPO.GEN.101 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(3)(b)** (with Sch. 3) (as amended by S.I. 2019/1098, regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

**F9 SPO.GEN.102 Touring motor gliders and powered sailplanes**

- (a) Touring motor gliders shall be operated following the requirements for:  
.....
- (b) .....
- (c) .....
- (d) .....

**Textual Amendments**

- F9** Deleted by [Commission Implementing Regulation \(EU\) 2018/1975 of 14 December 2018 amending Regulation \(EU\) No 965/2012 as regards air operations requirements for sailplanes and electronic flight bags](#).

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

### **SPO.GEN.C.105 responsibilities**

- (a) The crew member shall be responsible for the proper execution of his/her duties. Crew duties shall be specified in the standard operating procedures (SOP) and, where appropriate, in the operations manual.
- [<sup>F10</sup>(b) During critical phases of the flight or whenever deemed necessary by the pilot-in-command in the interest of safety, the crew member shall be restrained at his/her assigned station, unless otherwise specified in the SOP.]

#### **Textual Amendments**

**F10** Substituted by [Commission Regulation \(EU\) 2018/394 of 13 March 2018 amending Regulation \(EU\) No 965/2012 as regards the deletion of air operations requirements for balloons.](#)

- (c) During flight, the flight crew member shall keep his/her safety belt fastened while at his/her station.
- (d) During flight, at least one qualified flight crew member shall remain at the controls of the aircraft at all times.
- (e) The crew member shall not undertake duties on an aircraft:
- (1) if he/she knows or suspects that he/she is suffering from fatigue as referred to in 7.f. of Annex IV to Regulation (EC) No 216/2008 or feels otherwise unfit to perform his/her duties; or
  - (2) when under the influence of psychoactive substances or alcohol or for other reasons as referred to in 7.g. of Annex IV to Regulation (EC) No 216/2008.
- (f) The crew member who undertakes duties for more than one operator shall:
- (1) maintain his/her individual records regarding flight and duty times and rest periods as referred to in Annex III (Part-ORO), Subpart FTL to Regulation (EU) No 965/2012, if applicable; and
  - (2) provide each operator with the data needed to schedule activities in accordance with the applicable FTL requirements.
- (g) The crew member shall report to the pilot-in-command:
- (1) any fault, failure, malfunction or defect, which he/she believes may affect the airworthiness or safe operation of the aircraft, including emergency systems; and
  - (2) any incident that was endangering, or could endanger, the safety of the operation.

### **SPO.GEN.C.106 specialists responsibilities**

- (a) The task specialist shall be responsible for the proper execution of his/her duties. Task specialists' duties shall be specified in the SOP.
- [<sup>F10</sup>(b) During critical phases of the flight or whenever deemed necessary by the pilot-in-command in the interest of safety, the task specialist shall be restrained at his/her assigned station, unless otherwise specified in the SOP.]
- (c) The task specialist shall ensure that he/she is restrained when carrying out specialised tasks with external doors opened or removed.

- (d) The task specialist shall report to the pilot-in-command:
- (1) any fault, failure, malfunction or defect, which he/she believes may affect the airworthiness or safe operation of the aircraft, including emergency systems; and
  - (2) any incident that was endangering, or could endanger, the safety of the operation.

#### **SPO.GEN.Pilot-in-command responsibilities and authority**

- (a) The pilot-in-command shall be responsible for:
- (1) the safety of the aircraft and of all crew members, task specialists and cargo on board during aircraft operations;
  - (2) the initiation, continuation, termination or diversion of a flight in the interest of safety;
  - (3) ensuring that all operational procedures and checklists are complied with in accordance with the appropriate manual;
  - (4) only commencing a flight if he/she is satisfied that all operational limitations referred to in 2.a.3 of Annex IV to Regulation (EC) No 216/2008 are complied with, as follows:
    - (i) the aircraft is airworthy;
    - (ii) the aircraft is duly registered;
    - (iii) [<sup>F5</sup>instruments and equipment required for the execution of that flight are installed in the aircraft and are operative, unless operation with inoperative equipment is permitted by the minimum equipment list (MEL) or equivalent document, if applicable, as required in points SPO.IDE.A.105 or SPO.IDE.H.105;]
    - (iv) [<sup>F10</sup>the mass of the aircraft and the centre of gravity location are such that the flight can be conducted within the limits prescribed in the airworthiness documentation;]
    - (v) all equipment and baggage is properly loaded and secured; [<sup>F11</sup> and]
    - (vi) the aircraft operating limitations as specified in the aircraft flight manual (AFM) will not be exceeded at any time during the flight; [<sup>F12</sup>and]
    - (vii) [<sup>F12</sup>any navigational database required for PBN is suitable and current;]
  - (5) not commencing a flight if he/she, or any other crew member or task specialist is incapacitated from performing duties by any cause such as injury, sickness, fatigue or the effects of any psychoactive substance;
  - (6) not continuing a flight beyond the nearest weather-permissible aerodrome or operating site when his/her or any other crew member or task specialist's capacity to perform duties is significantly reduced from causes such as fatigue, sickness or lack of oxygen;
  - (7) deciding on acceptance of the aircraft with unserviceabilities in accordance with the configuration deviation list (CDL) or MEL, if applicable;
  - (8) recording utilisation data and all known or suspected defects in the aircraft at the termination of the flight, or series of flights, in the aircraft technical log or journey log for the aircraft; and

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- (9) <sup>F13</sup>ensuring that:
- (i) flight recorders are not disabled or switched off during flight;
  - (ii) in the event of an occurrence other than an accident or a serious incident that shall be reported according to ORO.GEN.160(a), flight recorders' recordings are not intentionally erased; and
  - (iii) in the event of an accident or a serious incident, or if preservation of recordings of flight recorders is directed by the investigating authority:
    - (A) flight recorders' recordings are not intentionally erased;
    - (B) flight recorders are deactivated immediately after the flight is completed; and
    - (C) precautionary measures to preserve the recordings of flight recorders are taken before leaving the flight crew compartment.]

#### Textual Amendments

- F11** Deleted by Commission Regulation (EU) 2016/1199 of 22 July 2016 amending Regulation (EU) No 965/2012 as regards operational approval of performance-based navigation, certification and oversight of data services providers and helicopter offshore operations, and correcting that Regulation.
- F12** Inserted by Commission Regulation (EU) 2016/1199 of 22 July 2016 amending Regulation (EU) No 965/2012 as regards operational approval of performance-based navigation, certification and oversight of data services providers and helicopter offshore operations, and correcting that Regulation.
- F13** Substituted by Commission Regulation (EU) 2015/2338 of 11 December 2015 amending Regulation (EU) No 965/2012 as regards requirements for flight recorders, underwater locating devices and aircraft tracking systems.

- (b) The pilot-in-command shall have the authority to refuse carriage of or disembark any person or cargo that may represent a potential hazard to the safety of the aircraft or its occupants.
- (c) The pilot-in-command shall, as soon as possible, report to the appropriate air traffic services (ATS) unit any hazardous weather or flight conditions encountered that are likely to affect the safety of other aircraft.
- (d) Notwithstanding the provision of (a)(6), in a multi-crew operation the pilot-in-command may continue a flight beyond the nearest weather-permissible aerodrome when adequate mitigating procedures are in place.
- (e) The pilot-in-command shall, in an emergency situation that requires immediate decision and action, take any action he/she considers necessary under the circumstances in accordance with 7.d. of Annex IV to Regulation (EC) No 216/2008. In such cases he/she may deviate from rules, operational procedures and methods in the interest of safety.
- (f) The pilot-in-command shall submit a report of an act of unlawful interference without delay to the <sup>F14</sup>CAA and shall inform the designated local authority.

**Changes to legislation:** There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)

#### Textual Amendments

**F14** Word in Annex 8 point SPO.GEN.107 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(3)(c)** (with Sch. 3) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

- (g) The pilot-in-command shall notify the nearest appropriate authority by the quickest available means of any accident involving the aircraft that results in serious injury or death of any person or substantial damage to the aircraft or property.

#### <sup>F15</sup>~~SPO.GEN.108~~ Pilot-in-command responsibilities and authority — balloons

#### Textual Amendments

**F15** Deleted by [Commission Regulation \(EU\) 2018/394 of 13 March 2018 amending Regulation \(EU\) No 965/2012 as regards the deletion of air operations requirements for balloons](#).

#### ~~SPO.GEN.110~~ Compliance with laws, regulations and procedures

The pilot-in-command, crew members and task specialists shall comply with the laws, regulations and procedures of those States where operations are conducted.

#### ~~SPO.GEN.115~~ Common language

The operator shall ensure that all crew members and task specialists are able to communicate with each other in a common language.

#### <sup>F16</sup>~~SPO.GEN.119~~ Taxiing of aircraft

The operator shall establish procedures for taxiing of aircraft in order to ensure safe operation and in order to enhance runway safety.]

#### Textual Amendments

**F16** Inserted by [Commission Regulation \(EU\) 2015/140 of 29 January 2015 amending Regulation \(EU\) No 965/2012 as regards sterile flight crew compartment and correcting that Regulation](#).

#### ~~SPO.GEN.120~~ Taxiing of aeroplanes

The operator shall ensure that an aeroplane is only taxied on the movement area of an aerodrome if the person at the controls:

- (a) is an appropriately qualified pilot; or
- (b) has been designated by the operator and:
  - (1) is trained to taxi the aeroplane;
  - (2) is trained to use the radio telephone, if radio communications are required;

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- (3) has received instruction in respect of aerodrome layout, routes, signs, marking, lights, air traffic control (ATC) signals and instructions, phraseology and procedures; and
- (4) is able to conform to the operational standards required for safe aeroplane movement at the aerodrome.

#### **SPO.GEN.105 ~~105~~ engagement**

A helicopter rotor shall only be turned under power for the purpose of flight with a qualified pilot at the controls.

#### **SPO.GEN.130 ~~130~~ portable electronic devices**

The operator shall not permit any person to use a portable electronic device (PED) on board an aircraft that could adversely affect the performance of the aircraft's systems and equipment.

#### **[<sup>F17</sup>SPO.GEN.131 ~~131~~ electronic flight bags (EFBs)]**

- (a) Where an EFB is used on board an aircraft, the operator shall ensure that it does not adversely affect the performance of the aircraft systems or equipment, or the ability of the flight crew member to operate the aircraft.
- (b) Prior to using a type B EFB application, the operator shall:
  - (1) conduct a risk assessment related to the use of the EFB device that hosts the application, to the EFB application concerned and its associated function(s), identifying the associated risks and ensuring that they are appropriately mitigated; the risk assessment shall address the risks associated with the human-machine interface of the EFB device and the EFB application concerned; and
  - (2) establish an EFB administration system, including procedures and training requirements for the administration and use of the EFB device and the EFB application.]

#### **Textual Amendments**

**F17** Inserted by [Commission Implementing Regulation \(EU\) 2018/1975 of 14 December 2018 amending Regulation \(EU\) No 965/2012 as regards air operations requirements for sailplanes and electronic flight bags.](#)

#### **SPO.GEN.135 ~~135~~ information on emergency and survival equipment carried**

The operator shall, at all times, have available for immediate communication to rescue coordination centres (RCCs) lists containing information on the emergency and survival equipment carried on board.

#### **SPO.GEN.140 ~~140~~ documents, manuals and information to be carried**

- (a) The following documents, manuals and information shall be carried on each flight as originals or copies unless otherwise specified below:
  - (1) the AFM, or equivalent document(s);
  - (2) the original certificate of registration;



- (3) the original certificate of airworthiness (CofA);
- (4) the noise certificate, if applicable;
- (5) a copy of the declaration as specified in ORO.DEC.100 and, if applicable, a copy of the authorisation as specified in ORO.SPO.110;
- (6) the list of specific approvals, if applicable;
- (7) the aircraft radio licence, if applicable;
- (8) the third party liability insurance certificate(s);
- (9) the journey log, or equivalent, for the aircraft;
- (10) [<sup>F18</sup>the aircraft technical log, in accordance with to Regulation (EU) No 1321/2014, if applicable;]
- (11) details of the filed ATS flight plan, if applicable;
- (12) current and suitable aeronautical charts for the route/area of the proposed flight and all routes along which it is reasonable to expect that the flight may be diverted;
- (13) procedures and visual signals information for use by intercepting and intercepted aircraft;
- (14) information concerning search and rescue services for the area of the intended flight;
- (15) the current parts of the operations manual and/or SOP or AFM that are relevant to the duties of crew members and task specialists, which shall be easily accessible to them;
- (16) the MEL or CDL, if applicable;
- (17) appropriate notices to airmen (NOTAMs) and aeronautical information service (AIS) briefing documentation;
- (18) appropriate meteorological information, if applicable;
- (19) cargo manifests, if applicable; and
- (20) any other documentation that may be pertinent to the flight or is required by the States concerned with the flight.

#### Textual Amendments

**F18** Substituted by [Commission Implementing Regulation \(EU\) 2019/1387 of 1 August 2019 amending Regulation \(EU\) No 965/2012 as regards requirements for aeroplane landing performance calculations and the standards for assessing the runway surface conditions, update on certain aircraft safety equipment and requirements and operations without holding an extended range operational approval.](#)

- (b) Notwithstanding (a), the documents and information in (a)(2) to (a)(11) and (a)(14), (a)(17), (a)(18) and (a)(19) may be retained at the aerodrome or operating site on flights:
  - (1) intending to take off and land at the same aerodrome or operating site; or
  - (2) remaining within a distance or area determined by the [<sup>F19</sup>CAA] in accordance with ARO.OPS.210.

**Changes to legislation:** There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)

### Textual Amendments

**F19** Word in Annex 8 point SPO.GEN.140 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019](#) (S.I. 2019/645), regs. 1, **370(3)(c)** (with Sch. 3) (as amended by S.I. 2019/1098, regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

- <sup>F9</sup>(c) .....
- (d) In case of loss or theft of documents specified in (a)(2) to (a)(8), the operation may continue until the flight reaches its destination or a place where replacement documents can be provided.
- (e) The operator shall make available, within a reasonable time of being requested to do so by the [<sup>F19</sup>CAA], the documentation required to be carried on board.

### <sup>F18</sup>SPO. Handling of flight recorder recordings: preservation, production, protection and use

- (a) Following an accident, a serious incident or an occurrence identified by the investigating authority, the operator of an aircraft shall preserve the original recorded data of the flight recorders for a period of 60 days or until otherwise directed by the investigating authority.
- (b) The operator shall conduct operational checks and evaluations of recordings to ensure the continued serviceability of the flight recorders which are required to be carried.
- (c) The operator shall ensure that the recordings of flight parameters and data link communication messages required to be recorded on flight recorders are preserved. However, for the purpose of testing and maintaining those flight recorders, up to 1 hour of the oldest recorded data at the time of testing may be erased.
- (d) The operator shall keep and maintain up to date documentation that presents the necessary information to convert raw flight data into flight parameters expressed in engineering units.
- (e) The operator shall make available any flight recorder recordings that have been preserved, if so determined by the [<sup>F20</sup>CAA].
- (f) Without prejudice to Regulations (EU) No 996/2010 and (EU) 2016/679, and except for ensuring flight recorder serviceability:
- (1) audio recordings from a flight recorder shall not be disclosed or used unless all the following conditions are fulfilled:
- (i) a procedure related to the handling of such audio recordings and of their transcript is in place;
- (ii) all crew members and maintenance personnel concerned have given their prior consent;
- (iii) such audio recordings are used only for maintaining or improving safety.
- (1a) When flight recorder audio recordings are inspected for ensuring flight recorder serviceability, the operator shall protect the privacy of those audio

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- recordings and make sure that they are not disclosed or used for purposes other than ensuring flight recorder serviceability.
- (2) Flight parameters or data link messages recorded by a flight recorder shall not be used for purposes other than for the investigation of an accident or an incident that is subject to mandatory reporting. That limitation shall not apply, unless such recordings meet any of the following conditions:
- (i) are used by the operator for airworthiness or maintenance purposes only;
  - (ii) are de-identified;
  - (iii) are disclosed under secure procedures.
- (3) Except for ensuring flight recorder serviceability, images of the flight crew compartment that are recorded by a flight recorder shall not be disclosed or used unless all of the following conditions are fulfilled:
- (i) a procedure related to the handling of such image recordings is in place;
  - (ii) all crew members and maintenance personnel concerned have given their prior consent;
  - (iii) such image recordings are used only for maintaining or improving safety.
- (3a) When images of the flight crew compartment that are recorded by a flight recorder are inspected for ensuring the serviceability of the flight recorder, then:
- (i) those images shall not be disclosed or used for purposes other than ensuring flight recorder serviceability;
  - (ii) if body parts of crew members are likely to be visible on the images, the operator shall ensure the privacy of those images.]

#### Textual Amendments

**F20** Word in Annex 8 point SPO.GEN.145 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(3)(c)** (with Sch. 3) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

#### **SPO.GEN.145** Transport of dangerous goods

- (a) The transport of dangerous goods by air shall be conducted in accordance with Annex 18 to the Chicago Convention as last amended and amplified by the Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO Doc 9284-AN/905), including its attachments, supplements and any other addenda or corrigenda.
- (b) Dangerous goods shall only be transported by an operator approved in accordance with Annex V (Part-SPA), subpart G, to Regulation (EU) No 965/2012 except when:
  - (1) they are not subject to the Technical Instructions in accordance with Part 1 of those Instructions;

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- (2) they are carried by task specialists or crew members or are in baggage which has been separated from its owner, in accordance with Part 8 of the Technical Instructions;
- (3) required on board the aircraft for specialised purposes in accordance with the Technical Instructions;
- (4) they are used to facilitate flight safety where carriage aboard the aircraft is reasonable to ensure their timely availability for operational purposes, whether or not such articles and substances are required to be carried or intended to be used in connection with a particular flight.
- (c) The operator shall establish procedures to ensure that all reasonable measures are taken to prevent dangerous goods from being carried on board inadvertently.
- (d) The operator shall provide personnel with the necessary information enabling them to carry out their responsibilities, as required by the Technical Instructions.
- (e) The operator shall, in accordance with the Technical Instructions, report without delay to the [F<sup>21</sup>CAA] and the appropriate authority of the State of occurrence in the event of:
  - (1) any dangerous good accident or incidents;
  - (2) the finding of dangerous goods carried by task specialists or crew, or in their baggage, when not in accordance with Part 8 of the Technical Instructions.

#### Textual Amendments

**F21** Word in Annex 8 point SPO.GEN.150 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(3)(c)** (with Sch. 3) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

- (f) The operator shall ensure that task specialists are provided with information about dangerous goods.
- (g) The operator shall ensure that notices giving information about the transport of dangerous goods are provided at acceptance points for cargo as required by the Technical Instructions.

#### **SPO.GEN.155** Release of dangerous goods

The operator shall not operate an aircraft over congested areas of cities, towns or settlements or over an open-air assembly of persons when releasing dangerous goods.

#### **SPO.GEN.160** Carriage and use of weapons

- (a) The operator shall ensure that, when weapons are carried on a flight for the purpose of a specialised task, these are secured when not in use.
- (b) The task specialist using the weapon shall take all necessary measures to prevent the aircraft and persons on board or on the ground from being endangered.

#### **SPO.GEN.165** Admission to the flight crew compartment

The pilot-in-command shall make the final decision regarding the admission to the flight crew compartment and shall ensure that:

- (a) admission to the flight crew compartment does not cause distraction or interference with the operation of the flight; and
- (b) all persons carried in the flight crew compartment are made familiar with the relevant safety procedures.

## SUBPART ~~OPERATIONAL PROCEDURES~~

### B

#### **SPO.OP.100 of aerodromes and operating sites**

The operator shall only use aerodromes and operating sites that are adequate for the type of aircraft and operation concerned.

#### **SPO.OP.105 Specification of isolated aerodromes — aeroplanes**

For the selection of alternate aerodromes and the fuel policy, the operator shall consider an aerodrome as an isolated aerodrome if the flying time to the nearest adequate destination alternate aerodrome is more than:

- (a) for aeroplanes with reciprocating engines, 60 minutes; or
- (b) for aeroplanes with turbine engines, 90 minutes.

#### **SPO.OP.110 Aerodrome operating minima — aeroplanes and helicopters**

- (a) For instrument flight rules (IFR) flights, the operator or the pilot-in-command shall specify aerodrome operating minima for each departure, destination and alternate aerodrome to be used. Such minima shall:
  - (1) not be lower than those established by the State in which the aerodrome is located, except when specifically approved by that State; and
  - (2) when undertaking low visibility operations, be approved by the [F22CAA] in accordance with Annex V (Part-SPA), Subpart E to Regulation (EU) No 965/2012.

#### **Textual Amendments**

**F22** Word in Annex 8 point SPO.OP.110 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(4)** (with Sch. 3) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

- (b) When specifying the aerodrome operating minima, the operator or the pilot-in-command shall take the following into account:
  - (1) the type, performance and handling characteristics of the aircraft;
  - (2) the competence and experience of the flight crew and, if applicable, its composition;
  - (3) the dimensions and characteristics of the runways and final approach and take-off areas (FATOs) that may be selected for use;
  - (4) the adequacy and performance of the available visual and non-visual ground aids;
  - (5) the equipment available on the aircraft for the purpose of navigation and/or control of the flight path, during the take-off, the approach, the flare, the landing, the rollout and the missed approach;

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- (6) the obstacles in the approach, the missed approach and the climb-out areas required for the execution of contingency procedures;
- (7) the obstacle clearance altitude/height for the instrument approach procedures;
- (8) the means to determine and report meteorological conditions; and
- (9) the flight technique to be used during the final approach.
- (c) The minima for a specific type of approach and landing procedure shall only be used if:
  - (1) the ground equipment required for the intended procedure is operative;
  - (2) the aircraft systems required for the type of approach are operative;
  - (3) the required aircraft performance criteria are met; and
  - (4) the flight crew is qualified appropriately.

#### **SPO.OP. Aerodrome operating minima — NPA, APV, CAT I operations**

- (a) The decision height (DH) to be used for a non-precision approach (NPA) flown with the continuous descent final approach (CDFA) technique, approach procedure with vertical guidance (APV) or category I (CAT I) operation shall not be lower than the highest of:
  - (1) the minimum height to which the approach aid can be used without the required visual reference;
  - (2) the obstacle clearance height (OCH) for the category of aircraft;
  - (3) the published approach procedure DH where applicable;
  - (4) the system minimum specified in Table 1; or
  - (5) the minimum DH specified in the AFM or equivalent document, if stated.
- (b) The minimum descent height (MDH) for an NPA operation flown without the CDFA technique shall not be lower than the highest of:
  - (1) the OCH for the category of aircraft;
  - (2) the system minimum specified in Table 1; or
  - (3) the minimum MDH specified in the AFM, if stated.

*Table 1*

<b>System minima</b>	
<b>Facility</b>	<b>Lowest DH/MDH (ft)</b>
Instrument landing system (ILS)	200
Global navigation satellite system (GNSS)/ satellite-based augmentation system (SBAS) (lateral precision with vertical guidance approach (LPV))	200
GNSS (lateral navigation (LNAV))	250

**Changes to legislation:** There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)

Table 1

<b>System minima</b>	
GNSS/Baro-vertical navigation (VNAV) (LNAV/VNAV)	250
Localiser (LOC) with or without distance measuring equipment (DME)	250
Surveillance radar approach (SRA) (terminating at ½ NM)	250
SRA (terminating at 1 NM)	300
SRA (terminating at 2 NM or more)	350
VHF omnidirectional radio range (VOR)	300
VOR/DME	250
Non-directional beacon (NDB)	350
NDB/DME	300
VHF direction finder (VDF)	350

### **SPO.OP.122. Aerodrome operating minima — circling operations with aeroplanes**

- (a) The MDH for a circling operation with aeroplanes shall not be lower than the highest of:
- (1) the published circling OCH for the aeroplane category;
  - (2) the minimum circling height derived from Table 1; or
  - (3) the DH/MDH of the preceding instrument approach procedure.
- (b) The minimum visibility for a circling operation with aeroplanes shall be the highest of:
- (1) the circling visibility for the aeroplane category, if published;
  - (2) the minimum visibility derived from Table 2; or
  - (3) the runway visual range/converted meteorological visibility (RVR/CMV) of the preceding instrument approach procedure.

Table 1

	<b>Aeroplane category</b>			
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>MDH (ft)</b>	400	500	600	700
<b>Minimum meteorological visibility (m)</b>	1 500	1 600	2 400	3 600

### **SPO.OP.123. Aerodrome operating minima — onshore circling operations with helicopters**

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

The MDH for an onshore circling operation with helicopters shall not be lower than 250 ft and the meteorological visibility not less than 800 m.

#### **SPO.OP.15** ~~Departure and approach procedures — aeroplanes and helicopters~~

- (a) The pilot-in-command shall use the departure and approach procedures established by the State of the aerodrome, if such procedures have been published for the runway or FATO to be used.
- (b) The pilot-in-command may deviate from a published departure route, arrival route or approach procedure:
  - (1) provided obstacle clearance criteria can be observed, full account is taken of the operating conditions and any ATC clearance is adhered to; or
  - (2) when being radar-vectored by an ATC unit.
- (c) In the case of operations with complex motor-powered aircraft, the final approach segment shall be flown visually or in accordance with the published approach procedures.

#### **[<sup>F12</sup>SPO.OP.16** ~~Performance-based navigation — aeroplanes and helicopters~~

The operator shall ensure that, when PBN is required for the route or procedure to be flown:

- (a) the relevant PBN specification is stated in the AFM or other document that has been approved by the certifying authority as part of an airworthiness assessment or is based on such approval; and
- (b) the aircraft is operated in conformance with the relevant navigation specification and limitations in the AFM or other document mentioned above.]

#### **SPO.OP.17** ~~Noise abatement procedures~~

The pilot-in-command shall take into account published noise abatement procedures to minimise the effect of aircraft noise while ensuring that safety has priority over noise abatement.

#### **<sup>F15</sup>SPO.OP.18** ~~Noise abatement procedures — balloons~~

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#### **SPO.OP.19** ~~Minimum obstacle clearance altitudes — IFR flights~~

- (a) The operator shall specify a method to establish minimum flight altitudes that provide the required terrain clearance for all route segments to be flown in IFR.
- (b) The pilot-in-command shall establish minimum flight altitudes for each flight based on this method. The minimum flight altitudes shall not be lower than those published by the State overflown.

#### **SPO.OP.20** ~~Fuel and oil supply — aeroplanes~~

- (a) The pilot-in-command shall only commence a flight if the aeroplane carries sufficient fuel and oil for the following:
  - (1) for visual flight rules (VFR) flights:
    - (i) by day, to fly to the aerodrome of intended landing and thereafter to fly for at least 30 minutes at normal cruising altitude; or



- (ii) by night, to fly to the aerodrome of intended landing and thereafter to fly for at least 45 minutes at normal cruising altitude;
- (2) for IFR flights:
  - (i) when no destination alternate is required, to fly to the aerodrome of intended landing and thereafter to fly for at least 45 minutes at normal cruising altitude; or
  - (ii) when a destination alternate is required, to fly to the aerodrome of intended landing, to an alternate aerodrome and thereafter to fly for at least 45 minutes at normal cruising altitude.
- (b) In computing the fuel required, including providing for contingency, the following shall be taken into consideration:
  - (1) forecast meteorological conditions;
  - (2) anticipated ATC routings and traffic delays;
  - (3) procedures for loss of pressurisation or failure of one engine while en-route, where applicable; and
  - (4) any other condition that may delay the landing of the aeroplane or increase fuel and/or oil consumption.
- (c) Nothing shall preclude amendment of a flight plan in-flight, in order to re-plan the flight to another destination, provided that all requirements can be complied with from the point where the flight is re-planned.

#### **SPO.OP.311 Fuel and oil supply — helicopters**

- (a) The pilot-in-command shall only commence a flight if the helicopter carries sufficient fuel and oil for the following:
  - (1) for VFR flights:
    - (i) to fly to the aerodrome/operating site of intended landing and thereafter to fly for at least 20 minutes at best-range-speed; or
    - (ii) for VFR flights by day, a reserve fuel of 10 minutes at best-range-speed provided the he/she remains within 25 NM of the aerodrome/operating site of departure; and
  - (2) for IFR flights:
    - (i) when no alternate is required or no weather-permissible alternate aerodrome is available, to fly to the aerodrome/operating site of intended landing, and thereafter to fly for 30 minutes at normal cruising speed at 450 m ( 1 500 ft) above the destination aerodrome/operating site under standard temperature conditions and approach and land; or
    - (ii) when an alternate is required, to fly to and execute an approach and a missed approach at the aerodrome/operating site of intended landing, and thereafter:
      - (A) to fly to the specified alternate; and

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

- (B) to fly for 30 minutes at normal holding speed at 450 m ( 1 500 ft) above the alternate aerodrome/operating site under standard temperature conditions and approach and land.
- (b) In computing the fuel required, including providing for contingency, the following shall be taken into consideration:
  - (1) forecast meteorological conditions;
  - (2) anticipated ATC routings and traffic delays;
  - (3) failure of one engine while en-route, where applicable; and
  - (4) any other condition that may delay the landing of the aircraft or increase fuel and/or oil consumption.
- (c) Nothing shall preclude amendment of a flight plan in-flight, in order to re-plan the flight to another destination, provided that all requirements can be complied with from the point where the flight is re-planned.

**F15 SPO.OP.132 Fuel and ballast supply and planning — balloons**

- (a) .....
- (b) Fuel or ballast supply calculations shall be based upon at least the following operating conditions under which the flight is to be conducted:  
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**SPO.OP.135 Safety briefing**

- (a) The operator shall ensure that, prior to take-off task specialists are given a briefing on:
  - (1) emergency equipment and procedures;
  - (2) operational procedures associated with the specialised task before each flight or series of flights
- (b) The briefing referred to in (a)(2) may be replaced by an initial and recurrent training programme. In such case the operator shall also define recency requirements.

**SPO.OP.140 Flight preparation**

- [<sup>F23</sup>(a) Before commencing a flight, the pilot-in-command shall ascertain by every reasonable means available that the space-based facilities, ground and/or water facilities, including communication facilities and navigation aids available and directly required on such flight, for the safe operation of the aircraft, are adequate for the type of operation under which the flight is to be conducted.]

**Textual Amendments**

**F23** Substituted by [Commission Regulation \(EU\) 2016/1199 of 22 July 2016 amending Regulation \(EU\) No 965/2012 as regards operational approval of performance-based navigation, certification and oversight of data services providers and helicopter offshore operations, and correcting that Regulation.](#)

- (b) Before commencing a flight, the pilot-in-command shall be familiar with all available meteorological information appropriate to the intended flight. Preparation for a flight

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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away from the vicinity of the place of departure, and for every flight under IFR, shall include:

- (1) a study of available current weather reports and forecasts; and
- (2) the planning of an alternative course of action to provide for the eventuality that the flight cannot be completed as planned, because of weather conditions.

#### **SPO.OP.145 Take-off alternate aerodromes — complex motor-powered aeroplanes**

- (a) For IFR flights, the pilot-in-command shall specify at least one weather-permissible take-off alternate aerodrome in the flight plan if the weather conditions at the aerodrome of departure are at or below the applicable aerodrome operating minima or it would not be possible to return to the aerodrome of departure for other reasons.
- (b) The take-off alternate aerodrome shall be located within the following distance from the aerodrome of departure:
  - (1) for aeroplanes having two engines, not more than a distance equivalent to a flight time of 1 hour at the single-engine cruise speed in still air standard conditions; and
  - (2) for aeroplanes having three or more engines, not more than a distance equivalent to a flight time of 2 hours at the one-engine-inoperative (OEI) cruise speed according to the AFM in still air standard conditions.
- (c) For an aerodrome to be selected as a take-off alternate aerodrome the available information shall indicate that, at the estimated time of use, the conditions will be at or above the aerodrome operating minima for that operation.

#### **SPO.OP.150 Destination alternate aerodromes — aeroplanes**

For IFR flights, the pilot-in-command shall specify at least one weather-permissible destination alternate aerodrome in the flight plan, unless:

- (a) the available current meteorological information indicates that, for the period from 1 hour before until 1 hour after the estimated time of arrival, or from the actual time of departure to 1 hour after the estimated time of arrival, whichever is the shorter period, the approach and landing may be made under visual meteorological conditions (VMC); or
- (b) the place of intended landing is isolated and:
  - (1) an instrument approach procedure is prescribed for the aerodrome of intended landing; and
  - (2) available current meteorological information indicates that the following meteorological conditions will exist from 2 hours before to 2 hours after the estimated time of arrival, or from the actual time of departure to 2 hours after the estimated time of arrival whichever is the shorter period:
    - (i) a cloud base of at least 300 m ( 1 000 ft) above the minimum associated with the instrument approach procedure; and
    - (ii) visibility of at least 5,5 km or of 4 km more than the minimum associated with the procedure.

#### **SPO.OP.155 Destination alternate aerodromes — helicopters**

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**Changes to legislation:** There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)

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For IFR flights, the pilot-in-command shall specify at least one weather-permissible destination alternate aerodrome in the flight plan, unless:

- (a) an instrument approach procedure is prescribed for the aerodrome of intended landing and the available current meteorological information indicates that the following meteorological conditions will exist from 2 hours before to 2 hours after the estimated time of arrival, or from the actual time of departure to 2 hours after the estimated time of arrival, whichever is the shorter period:
  - (1) a cloud base of at least 120 m (400 ft) above the minimum associated with the instrument approach procedure; and
  - (2) visibility of at least 1 500 m more than the minimum associated with the procedure; or
- (b) the place of intended landing is isolated and:
  - (1) an instrument approach procedure is prescribed for the aerodrome of intended landing;
  - (2) available current meteorological information indicates that the following meteorological conditions will exist from 2 hours before to 2 hours after the estimated time of arrival:
    - (i) the cloud base is at least 120 m (400 ft) above the minimum associated with the instrument approach procedure;
    - (ii) visibility is at least 1 500 m more than the minimum associated with the procedure [F23.]
  - (3) F11 ...

#### [F12] **SPO.OP.152 Destination aerodromes — instrument approach operations**

The pilot-in-command shall ensure that sufficient means are available to navigate and land at the destination aerodrome or at any destination alternate aerodrome in the case of loss of capability for the intended approach and landing operation.]

#### **SPO.OP.155 Refuelling with persons embarking, on board or disembarking**

- (a) The aircraft shall not be refuelled with aviation gasoline (AVGAS) or wide-cut type fuel or a mixture of these types of fuel, when persons are embarking, on board or disembarking.
- (b) For all other types of fuel, necessary precautions shall be taken and the aircraft shall be properly manned by qualified personnel ready to initiate and direct an evacuation of the aircraft by the most practical and expeditious means available.

#### [F10] **SPO.OP.160 Use of headset**

Each flight crew member required to be on duty in the flight crew compartment shall wear a headset with boom microphone or equivalent and use it as the primary device to communicate with ATS, other crew members and task specialists.]

#### **SPO.OP.165 Smoking**

The pilot-in-command shall not allow smoking on board or during refuelling or defuelling of the aircraft.

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*Changes to legislation: There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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**SPO.OP.170 Meteorological conditions**

- (a) The pilot-in-command shall only commence or continue a VFR flight if the latest available meteorological information indicates that the weather conditions along the route and at the intended destination at the estimated time of use will be at or above the applicable VFR operating minima.
- (b) The pilot-in-command shall only commence or continue an IFR flight towards the planned destination aerodrome if the latest available meteorological information indicates that, at the estimated time of arrival, the weather conditions at the destination or at least one destination alternate aerodrome are at or above the applicable aerodrome operating minima.
- (c) If a flight contains VFR and IFR segments, the meteorological information referred to in (a) and (b) shall be applicable as far as relevant.

**SPO.OP.175 and other contaminants — ground procedures**

- (a) The pilot-in-command shall only commence take-off if the aircraft is clear of any deposit that might adversely affect the performance or controllability of the aircraft, except as permitted in the AFM.
- (b) In the case of operations with complex motor-powered aircraft, the operator shall establish procedures to be followed when ground de-icing and anti-icing and related inspections of the aircraft are necessary to allow the safe operation of the aircraft.

**SPO.OP.176 and other contaminants — flight procedures**

- (a) The pilot-in-command shall only commence a flight or intentionally fly into expected or actual icing conditions if the aircraft is certified and equipped to cope with such conditions as referred to in 2.a.5 of Annex IV to Regulation (EC) No 216/2008.
- (b) If icing exceeds the intensity of icing for which the aircraft is certified or if an aircraft not certified for flight in known icing conditions encounters icing, the pilot-in-command shall exit the icing conditions without delay, by a change of level and/or route, and if necessary by declaring an emergency to ATC.
- (c) In the case of operations with complex motor-powered aircraft, the operator shall establish procedures for flights in expected or actual icing conditions.

**SPO.OP.180 Take-off conditions — aeroplanes and helicopters**

Before commencing take-off, the pilot-in-command shall be satisfied that:

- (a) according to the information available, the weather at the aerodrome or operating site and the condition of the runway or FATO intended to be used would not prevent a safe take-off and departure; and
- (b) applicable aerodrome operating minima will be complied with.

<sup>F15</sup>**SPO.OP.181 Take-off conditions — balloons**

**SPO.OP.185 Simulated situations in flight**

Unless a task specialist is on-board the aircraft for training, the pilot-in-command shall, when carrying task specialists, not simulate:

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (a) situations that require the application of abnormal or emergency procedures; or
- (b) flight in instrument meteorological conditions (IMC).

#### **SPO.OP.100light fuel management**

- (a) The operator of a complex motor-powered aircraft shall ensure that in-flight fuel checks and fuel management are performed.
- (b) The pilot-in-command shall check at regular intervals that the amount of usable fuel remaining in flight is not less than the fuel required to proceed to a weather-permissible aerodrome or operating site and the planned reserve fuel as required by SPO.OP.130 and SPO.OP.131.

#### **SPO.OP.195 of supplemental oxygen**

- (a) The operator shall ensure that task specialists and crew members use supplemental oxygen continuously whenever the cabin altitude exceeds 10 000 ft for a period of more than 30 minutes and whenever the cabin altitude exceeds 13 000 ft, unless otherwise approved by the [F<sup>24</sup>CAA] and in accordance with SOPs.

##### **Textual Amendments**

**F24** Word in Annex 8 point SPO.OP.195 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\), regs. 1, 370\(4\)](#) (with Sch. 3) (as amended by [S.I. 2019/1098, regs. 1\(3\), 12](#)); 2020 c. 1, Sch. 5 para. 1(1)

- (b) Notwithstanding (a) and except for parachute operations, short excursions of a specified duration above 13 000 ft without using supplemental oxygen on other-than-complex aeroplanes and helicopters may be undertaken with a prior approval of the [F<sup>24</sup>CAA] based on the consideration of the following:
  - (1) the duration of the excursion above 13 000 ft is not more than 10 minutes or, if needed for a longer period, the time strictly necessary to the accomplishment of the specialised task;
  - (2) the flight is not conducted above 16 000 ft;
  - (3) the safety briefing in accordance with SPO.OP.135 includes adequate information to crew members and tasks specialists on the effects of hypoxia;
  - (4) SOPs for the concerned operation reflecting (1), (2) and (3);
  - (5) the previous experience of the operator in conducting operations above 13 000 ft without using supplemental oxygen;
  - (6) the individual experience of crew members and task specialists and their physiological adaptation to high altitudes; and
  - (7) the altitude of the base where the operator is established or the operations are conducted from.

#### **SPO.OP.200und proximity detection**

- (a) When undue proximity to the ground is detected by a flight crew member or by a ground proximity warning system, the pilot flying shall take corrective action immediately in order to establish safe flight conditions.

- (b) The ground proximity warning system may be disabled during those specialised tasks, which by their nature require the aircraft to be operated within a distance from the ground below that which would trigger the ground proximity warning system.

#### **SPO.OP.205 Airborne collision avoidance system (ACAS)**

- [<sup>F23</sup>(a) The operator shall establish operational procedures and training programmes when ACAS is installed and serviceable so that the flight crew is appropriately trained in the avoidance of collisions and competent in the use of ACAS II equipment.]
- (b) The ACAS II may be disabled during those specialised tasks, which by their nature require the aircraft to be operated within a distance from each other below that which would trigger the ACAS.

#### [<sup>F18</sup>**SPO.OP.210 Approach and landing conditions — aeroplanes**

Before commencing an approach to land, the pilot-in-command shall be satisfied that, according to the information available, the weather at the aerodrome or the operating site and the condition of the runway intended to be used would not prevent a safe approach, landing or missed approach.]

#### [<sup>F25</sup>**SPO.OP.211 Approach and landing conditions — helicopters**

Before commencing an approach to land, the pilot-in-command shall be satisfied that, according to the information available, the weather at the aerodrome or the operating site and the condition of the final approach and take-off area (FATO) intended to be used would not prevent a safe approach, landing or missed approach.]

#### **Textual Amendments**

**F25** Inserted by Commission Implementing Regulation (EU) 2019/1387 of 1 August 2019 amending Regulation (EU) No 965/2012 as regards requirements for aeroplane landing performance calculations and the standards for assessing the runway surface conditions, update on certain aircraft safety equipment and requirements and operations without holding an extended range operational approval.

#### **SPO.OP.215 Commencement and continuation of approach — aeroplanes and helicopters**

- (a) The pilot-in-command may commence an instrument approach regardless of the reported runway visual range/visibility (RVR/VIS).
- (b) If the reported RVR/VIS is less than the applicable minimum, the approach shall not be continued:
- (1) below 1 000 ft above the aerodrome; or
  - (2) into the final approach segment in the case where the decision altitude/height (DA/H) or minimum descent altitude/height (MDA/H) is more than 1 000 ft above the aerodrome,
- (c) Where the RVR is not available, RVR values may be derived by converting the reported visibility.
- (d) If, after passing 1 000 ft above the aerodrome, the reported RVR/VIS falls below the applicable minimum, the approach may be continued to DA/H or MDA/H.

Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)

- (e) The approach may be continued below DA/H or MDA/H and the landing may be completed provided that the visual reference adequate for the type of approach operation and for the intended runway is established at the DA/H or MDA/H and is maintained.
- (f) The touchdown zone RVR shall always be controlling.

**SPO.OP.225 Operational limitations — hot-air balloons**

- (a) .....
- (b) .....

**SPO.OP.310 Standard operating procedures**

- (a) Before commencing a specialised operation, the operator shall conduct a risk assessment, assessing the complexity of the activity to determine the hazards and associated risks inherent in the operation and establish mitigating measures.
- (b) Based on the risk assessment, the operator shall establish standard operating procedures (SOP) appropriate to the specialised activity and aircraft used taking account of the requirements of subpart E. The SOP shall be part of the operations manual or a separate document. SOP shall be regularly reviewed and updated, as appropriate.
- (c) The operator shall ensure that specialised operations are performed in accordance with SOP.

**SUBPART C AIRCRAFT PERFORMANCE AND OPERATING LIMITATIONS**

C

**SPO.POL.100 Operating limitations — all aircraft**

- [<sup>F10</sup>(a) During any phase of operation, the loading, the mass and the centre of gravity (CG) position of the aircraft shall comply with any limitation specified in the appropriate manual.]
- (b) Placards, listings, instrument markings, or combinations thereof, containing those operating limitations prescribed by the AFM for visual presentation, shall be displayed in the aircraft.

**[<sup>F10</sup>SPO.POL.105 Mass and balance**

- (a) The operator shall ensure that the mass and the CG of the aircraft have been established by actual weighing prior to the initial entry into service of the aircraft. The accumulated effects of modifications and repairs on the mass and balance shall be accounted for and properly documented. Such information shall be made available to the pilot-in-command. The aircraft shall be reweighed if the effect of modifications on the mass and balance is not accurately known.
- (b) [<sup>F5</sup>The weighing shall be accomplished by the manufacturer of the aircraft or by an approved maintenance organisation.]]

**SPO.POL.110 Mass and balance system — commercial operations with aeroplanes and helicopters and non-commercial operations with complex motor-powered aircraft**



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*Changes to legislation: There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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- [<sup>F2</sup>(a) The operator shall establish a mass and balance system in order to determine for each flight or series of flights the following:
- (1) aircraft dry operating mass;
  - (2) mass of the traffic load;
  - (3) mass of the fuel load;
  - (4) aircraft load and load distribution;
  - (5) take-off mass, landing mass and zero fuel mass;
  - (6) applicable aircraft CG positions.]
- (b) The flight crew shall be provided with a means of replicating and verifying any mass and balance computation based on electronic calculations.
- (c) The operator shall establish procedures to enable the pilot-in-command to determine the mass of the fuel load by using the actual density or, if not known, the density calculated in accordance with a method specified in the operations manual.
- (d) The pilot-in-command shall ensure that the loading of:
- (1) the aircraft is performed under the supervision of qualified personnel; and
  - (2) traffic load is consistent with the data used for the calculation of the aircraft mass and balance.
- (e) The operator shall specify, in the operations manual, the principles and methods involved in the loading and in the mass and balance system that meet the requirements contained in (a) to (d). This system shall cover all types of intended operations.

**SPO.POM.15 Mass and balance data and documentation — commercial operations with aeroplanes and helicopters and non-commercial operations with complex motor-powered aircraft**

- (a) The operator shall establish mass and balance data and produce mass and balance documentation prior to each flight, or series of flights, specifying the load and its distribution in such a way that the mass and balance limits of the aircraft are not exceeded. The mass and balance documentation shall contain the following information:
- (1) aircraft registration and type;
  - (2) flight identification, number and date, as applicable;
  - (3) name of the pilot-in-command;
  - (4) name of the person who prepared the document;
  - (5) dry operating mass and the corresponding CG of the aircraft;
  - (6) mass of the fuel at take-off and the mass of trip fuel;
  - (7) mass of consumables other than fuel, if applicable;
  - (8) load components;
  - (9) take-off mass, landing mass and zero fuel mass;

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (10) applicable aircraft CG positions; and
- (11) the limiting mass and CG values.
- (b) Where mass and balance data and documentation is generated by a computerised mass and balance system, the operator shall verify the integrity of the output data.

#### **SPO.POL.115 and balance data and documentation — alleviations**

Notwithstanding SPO.POL.115(a)(5), the CG position may not need not be on the mass and balance documentation, if the load distribution is in accordance with a pre-calculated balance table or if it can be shown that for the planned operations a correct balance can be ensured, whatever the real load is.

#### **SPO.POL.120 Performance — general**

The pilot-in-command shall only operate the aircraft if the performance is adequate to comply with the applicable rules of the air and any other restrictions applicable to the flight, the airspace or the aerodromes or operating sites used, taking into account the charting accuracy of any charts and maps used.

#### **SPO.POL.125-off mass limitations — complex motor-powered aeroplanes**

The operator shall ensure that:

- (a) the mass of the aeroplane at the start of take-off shall not exceed the mass limitations:
  - (1) at take-off, as required in SPO.POL.130;
  - (2) en-route with one engine inoperative (OEI), as required in SPO.POL.135; and
  - (3) at landing, as required in SPO.POL.140,
 allowing for expected reductions in mass as the flight proceeds, and for fuel jettisoning;
- (b) the mass at the start of take-off shall never exceed the maximum take-off mass specified in the AFM for the pressure altitude appropriate to the elevation of the aerodrome or operating site, and if used as a parameter to determine the maximum take-off mass, any other local atmospheric condition; and
- (c) the estimated mass for the expected time of landing at the aerodrome or operating site of intended landing and at any destination alternate aerodrome shall never exceed the maximum landing mass specified in the AFM for the pressure altitude appropriate to the elevation of those aerodromes or operating sites and if used as a parameter to determine the maximum landing mass, any other local atmospheric condition.

#### **SPO.POL.130-off — complex motor-powered aeroplanes**

- (a) When determining the maximum take-off mass, the pilot-in-command shall take the following into account:
  - (1) the calculated take-off distance shall not exceed the take-off distance available with a clearway distance not exceeding half of the take-off run available;
  - (2) the calculated take-off run shall not exceed the take-off run available;

- (3) a single value of V1 shall be used for the rejected and continued take-off, where a V1 is specified in the AFM; and
  - (4) on a wet or contaminated runway, the take-off mass shall not exceed that permitted for a take-off on a dry runway under the same conditions.
- (b) Except for an aeroplane equipped with turboprop engines and a maximum take-off mass at or below 5 700 kg, in the event of an engine failure during take-off, the pilot-in-command shall ensure that the aeroplane is able:
- (1) to discontinue the take-off and stop within the accelerate-stop distance available or the runway available; or
  - (2) to continue the take-off and clear all obstacles along the flight path by an adequate margin until the aeroplane is in a position to comply with SPO.POL.135.

#### **SPO.POL.135 — one engine inoperative — complex motor-powered aeroplanes**

The pilot-in-command shall ensure that in the event of an engine becoming inoperative at any point along the route, a multi-engined aeroplane shall be able to continue the flight to an adequate aerodrome or operating site without flying below the minimum obstacle clearance altitude at any point.

#### **SPO.POL.140 — complex motor-powered aeroplanes**

The pilot-in-command shall ensure that at any aerodrome or operating site, after clearing all obstacles in the approach path by a safe margin, the aeroplane shall be able to land and stop, or a seaplane to come to a satisfactory low speed, within the landing distance available. Allowance shall be made for expected variations in the approach and landing techniques, if such allowance has not been made in the scheduling of performance data.

#### **SPO.POL.145 — performance and operating criteria — aeroplanes**

When operating an aeroplane at a height of less than 150 m (500 ft) above a non-congested area, for operations of aeroplanes that are not able to sustain level flight in the event of a critical engine failure, the operator shall:

- (a) establish operational procedures to minimise the consequences of an engine failure;
- (b) establish a training programme for crew members; and
- (c) ensure that all crew members and task specialists on board are briefed on the procedures to be carried out in the event of a forced landing.

#### **SPO.POL.146 — performance and operating criteria — helicopters**

- (a) The pilot-in-command may operate an aircraft over congested areas provided that:
  - (1) the helicopter is certified in category A or B; and
  - (2) safety measures are established to prevent undue hazard to persons or property on the ground and the operation and its SOP is authorised.
- (b) The operator shall:
  - (1) establish operational procedures to minimise the consequences of an engine failure;
  - (2) establish a training programme for crew members; and

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- (3) ensure that all crew members and task specialists on board are briefed on the procedures to be carried out in the event of a forced landing.
- (c) The operator shall ensure that the mass at take-off, landing or hover shall not exceed the maximum mass specified for:
  - (1) a hover out of ground effect (HOGE) with all engines operating at the appropriate power rating; or
  - (2) if conditions prevail that a HOGE is not likely to be established, the helicopter mass shall not exceed the maximum mass specified for a hover in ground effect (HIGE) with all engines operating at the appropriate power rating, provided prevailing conditions allow a hover in ground effect at the maximum specified mass.

#### **SUBPART INSTRUMENTS, DATA AND EQUIPMENT**

D

##### *SECTION 1*

##### *Aeroplanes*

#### **SPO.IDE.A.100 Instruments and equipment — general**

- (a) Instruments and equipment required by this Subpart shall be approved in accordance with the applicable airworthiness requirements if they are:
  - (1) used by the flight crew to control the flight path;
  - (2) used to comply with SPO.IDE.A.215;
  - (3) used to comply with SPO.IDE.A.220; or
  - (4) installed in the aeroplane.
- [<sup>F2</sup>(b) The following items, when required under this Subpart, do not need an equipment approval:
  - (1) spare fuses;
  - (2) independent portable lights;
  - (3) an accurate time piece;
  - (4) chart holder;
  - (5) first aid kits;
  - (6) survival and signalling equipment;
  - (7) sea anchor and equipment for mooring;
  - (8) a simple PCDS used by a task specialist as a restraint device.
- (c) Instruments, equipment or accessories not required under this Annex (Part-SPO) as well as any other equipment which is not required under this Regulation, but carried on a flight, shall comply with the following requirements:

*Changes to legislation: There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

- (1) the information provided by those instruments, equipment or accessories shall not be used by the flight crew members to comply with Annex II to Regulation (EU) 2018/1139 or points SPO.IDE.A.215 and SPO.IDE.A.220 of this Annex;
- (2) the instruments, equipment or accessories shall not affect the airworthiness of the aeroplane, even in the case of failures or malfunction.]
- (d) Instruments and equipment shall be readily operable or accessible from the station where the flight crew member that needs to use it is seated.
- (e) Those instruments that are used by a flight crew member shall be so arranged as to permit the flight crew member to see the indications readily from his/her station, with the minimum practicable deviation from the position and line of vision which he/she normally assumes when looking forward along the flight path.
- (f) All required emergency equipment shall be easily accessible for immediate use.

#### **[<sup>F26</sup>SPO.IDE.A.105] Minimum equipment for flight**

A flight shall not be commenced when any of the aeroplane's instruments, items of equipment or functions required for the intended flight are inoperative or missing, unless either of the following conditions is fulfilled:

- (a) the aeroplane is operated in accordance with the minimum equipment list (MEL);
- (b) for complex motor-powered aeroplanes and for any aeroplane used in commercial operations, the operator is approved by the [<sup>F26</sup>CAA] to operate the aeroplane within the constraints of the master minimum equipment list (MMEL) in accordance with point ORO.MLR.105(j) of Annex III;
- (c) the aeroplane is subject to a permit to fly issued in accordance with the applicable airworthiness requirements.]

#### **Textual Amendments**

**F26** Word in Annex 8 point SPO.IDE.A.105 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(5)** (with [Sch. 3](#)) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, [Sch. 5](#) para. 1(1)

#### **SPO.IDE.A.110 Spare electrical fuses**

Aeroplanes shall be equipped with spare electrical fuses, of the ratings required for complete circuit protection, for replacement of those fuses that are allowed to be replaced in flight.

#### **SPO.IDE.A.115 Operating lights**

Aeroplanes operated at night shall be equipped with:

- (a) an anti-collision light system;
- (b) navigation/position lights;
- (c) a landing light;
- (d) lighting supplied from the aeroplane's electrical system to provide adequate illumination for all instruments and equipment essential to the safe operation of the aeroplane;

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (e) lighting supplied from the aeroplane's electrical system to provide illumination in all cabin compartments;
- (f) an independent portable light for each crew member station; and
- (g) lights to conform with the International Regulations for Preventing Collisions at Sea if the aeroplane is operated as a seaplane.

**SPO.IDEOP.120 Operations under VFR — flight and navigational instruments and associated equipment**

- (a) Aeroplanes operated under VFR by day shall be equipped with a means of measuring and displaying the following:
  - (1) magnetic heading,
  - (2) time in hours, minutes and seconds,
  - (3) [<sup>F2</sup>barometric altitude,]
  - (4) indicated airspeed,
  - (5) Mach number whenever speed limitations are expressed in terms of Mach number, and
  - (6) slip for complex motor-powered aeroplanes.
- (b) Aeroplanes operating under VMC at night shall be, in addition to (a), equipped with:
  - (1) a means of measuring and displaying the following:
    - (i) turn and slip,
    - (ii) attitude,
    - (iii) vertical speed, and
    - (iv) stabilised heading;
  - (2) a means of indicating when the supply of power to the gyroscopic instruments is not adequate.
- (c) Complex motor-powered aeroplanes operating under VMC over water and out of sight of the land shall be, in addition to (a) and (b), equipped with a means of preventing malfunction of the airspeed indicating system due to condensation or icing.
- (d) Aeroplanes operated in conditions where they cannot be maintained in a desired flight path without reference to one or more additional instruments, shall be, in addition to (a) and (b), equipped with a means of preventing malfunction of the airspeed indicating system required in (a)(4) due to condensation or icing.
- (e) Whenever two pilots are required for the operation, aeroplanes shall be equipped with an additional separate means of displaying the following:
  - (1) [<sup>F2</sup>barometric altitude,]
  - (2) indicated airspeed,
  - (3) slip, or turn and slip, as applicable,
  - (4) attitude, if applicable,

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*Changes to legislation: There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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- (5) vertical speed, if applicable
- (6) stabilised heading, if applicable, and
- (7) Mach number whenever speed limitations are expressed in terms of Mach number, if applicable.

#### **SPO.IDEOP.125 Conditions under IFR — flight and navigational instruments and associated equipment**

Aeroplanes operated under IFR shall be equipped with:

- (a) a means of measuring and displaying the following:
  - (1) magnetic heading,
  - (2) time in hours, minutes and seconds,
  - (3) [<sup>F2</sup>barometric altitude,]
  - (4) indicated airspeed,
  - (5) vertical speed,
  - (6) turn and slip,
  - (7) attitude,
  - (8) stabilised heading,
  - (9) outside air temperature, and
  - (10) Mach number, whenever speed limitations are expressed in terms of Mach number;
- (b) a means of indicating when the supply of power to the gyroscopic instruments is not adequate.
- (c) whenever two pilots are required for the operation, an additional separate means of displaying for the second pilot:
  - (1) [<sup>F2</sup>barometric altitude,]
  - (2) indicated airspeed,
  - (3) vertical speed,
  - (4) turn and slip,
  - (5) attitude,
  - (6) stabilised heading, and
  - (7) Mach number whenever speed limitations are expressed in terms of Mach number, if applicable;
- (d) a means of preventing malfunction of the airspeed indicating system required in (a) (4) and (c)(2) due to condensation or icing; and
- (e) complex motor-powered aeroplanes when operated under IFR shall, in addition to (a), (b), (c) and (d), be equipped with:

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

- (1) an alternate source of static pressure;
- (2) a chart holder in an easily readable position that can be illuminated for night operations;
- (3) a second independent means of measuring and displaying altitude unless already installed to comply with (e)(1); and
- (4) [<sup>F2</sup>an emergency power supply, independent of the main electrical generating system, for the purpose of operating and illuminating an attitude indicating system for a minimum period of 30 minutes. The emergency power supply shall be automatically operative after the total failure of the main electrical generating system and clear indication shall be given on the instrument or on the instrument panel that the attitude indicator is being operated by emergency power.]

#### **SPO.IDEA.126 Additional equipment for single-pilot operation under IFR**

Complex motor-powered aeroplanes operated under IFR with a single pilot shall be equipped with an autopilot with at least altitude hold and heading mode.

#### **[<sup>F27</sup>SPO.IDEA.130 Terrain awareness warning system (TAWS)]**

- (a) Turbine-powered aeroplanes with a maximum certified take-off mass (MCTOM) of more than 5 700 kg or an MOPSC of more than nine shall be equipped with a TAWS that meets the requirements for:
  - (1) class A equipment, as specified in an acceptable standard, in the case of aeroplanes for which the individual certificate of airworthiness (CofA) was first issued after 1 January 2011 ; or
  - (2) class B equipment, as specified in an acceptable standard, in the case of aeroplanes for which the individual CofA was first issued on or before 1 January 2011 .
- (b) When used in commercial operations, turbine-powered aeroplanes for which the individual CofA was first issued after 1 January 2019 and having an MCTOM of 5 700 kg or less and an MOPSC of six to nine shall be equipped with a TAWS that meets the requirements for class B equipment, as specified in an acceptable standard.]

#### **Textual Amendments**

**F27** Substituted by [Commission Regulation \(EU\) 2018/1042 of 23 July 2018 amending Regulation \(EU\) No 965/2012, as regards technical requirements and administrative procedures related to introducing support programmes, psychological assessment of flight crew, as well as systematic and random testing of psychoactive substances to ensure medical fitness of flight and cabin crew members, and as regards equipping newly manufactured turbine-powered aeroplanes with a maximum certified take-off mass of 5700 kg or less and approved to carry six to nine passengers with a terrain awareness warning system.](#)

#### **SPO.IDEA.131 Airborne collision avoidance system (ACAS II)**

Unless otherwise provided for by Regulation (EU) No 1332/2011, turbine-powered aeroplanes with an MCTOM of more than 5 700 kg shall be equipped with ACAS II.

#### **SPO.IDEA.132 Airborne weather detecting equipment — complex motor-powered aeroplanes**



*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

The following aeroplanes shall be equipped with airborne weather detecting equipment when operated at night or in IMC in areas where thunderstorms or other potentially hazardous weather conditions, regarded as detectable with airborne weather detecting equipment, may be expected to exist along the route:

- (a) pressurised aeroplanes;
- (b) non-pressurised aeroplanes with an MCTOM of more than 5 700 kg.

**SPO.IDEA.133 Additional equipment for operations in icing conditions at night — complex motor-powered aeroplanes**

- (a) Aeroplanes operated in expected or actual icing conditions at night shall be equipped with a means to illuminate or detect the formation of ice.
- (b) The means to illuminate the formation of ice shall not cause glare or reflection that would handicap flight crew members in the performance of their duties.

**SPO.IDEA.135 Crew interphone system**

Aeroplanes operated by more than one flight crew member shall be equipped with a flight crew interphone system, including headsets and microphones for use by all flight crew members.

**SPO.IDEA.140 40-bit voice recorder**

- (a) The following aeroplanes shall be equipped with a CVR:
  - (1) aeroplanes with an MCTOM of more than 27 000 kg and first issued with an individual CofA on or after 1 January 2016 ; and
  - (2) aeroplanes with an MCTOM of more than 2 250 kg:
    - (i) certified for operation with a minimum crew of at least two pilots;
    - (ii) equipped with turbojet engine(s) or more than one turboprop engine; and
    - (iii) for which a type certificate is first issued on or after 1 January 2016 .
- [<sup>F13</sup>(b) The CVR shall be capable of retaining data recorded during at least:
  - (1) [<sup>F28</sup>the preceding 25 hours for aeroplanes with an MCTOM of more than 27 000 kg and first issued with an individual CofA on or after 1 January 2022 ; or]
  - (2) the preceding 2 hours in all other cases.]

**Textual Amendments**

**F28** Substituted by [Commission Implementing Regulation \(EU\) 2020/2036 of 9 December 2020 amending Regulation \(EU\) No 965/2012 as regards the requirements for flight crew competence and training methods and postponing dates of application of certain measures in the context of the COVID-19 pandemic.](#)

- (c) The CVR shall record with reference to a timescale:
  - (1) voice communications transmitted from or received in the flight crew compartment by radio;

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (2) flight crew members' voice communications using the interphone system and the public address system, if installed;
- (3) the aural environment of the flight crew compartment, including, without interruption, the audio signals received from each boom and mask microphone in use; and
- (4) voice or audio signals identifying navigation or approach aids introduced into a headset or speaker.
- (d) The CVR shall start automatically to record prior to the aeroplane moving under its own power and shall continue to record until the termination of the flight when the aeroplane is no longer capable of moving under its own power.
- (e) In addition to (d), depending on the availability of electrical power, the CVR shall start to record as early as possible during the cockpit checks prior to engine start at the beginning of the flight until the cockpit checks immediately following engine shutdown at the end of the flight.
- [<sup>F13</sup>(f) If the CVR is not deployable, it shall have a device to assist in locating it under water. By 1 January 2020 at the latest, this device shall have a minimum underwater transmission time of 90 days. If the CVR is deployable, it shall have an automatic emergency locator transmitter.]

#### **SPO.IDE.A.145 Flight data recorder**

- (a) Aeroplanes with an MCTOM of more than 5 700 kg and first issued with an individual CofA on or after 1 January 2016 shall be equipped with an FDR that uses a digital method of recording and storing data and for which a method of readily retrieving that data from the storage medium is available.
- (b) The FDR shall record the parameters required to determine accurately the aeroplane flight path, speed, attitude, engine power, configuration and operation and be capable of retaining data recorded during at least the preceding 25 hours.
- (c) Data shall be obtained from aeroplane sources that enable accurate correlation with information displayed to the flight crew.
- (d) The FDR shall start automatically to record the data prior to the aeroplane being capable of moving under its own power and shall stop automatically after the aeroplane is incapable of moving under its own power.
- [<sup>F13</sup>(e) If the FDR is not deployable, it shall have a device to assist in locating it under water. By 1 January 2020 at the latest, this device shall have a minimum underwater transmission time of 90 days. If the FDR is deployable, it shall have an automatic emergency locator transmitter.]

#### **[<sup>F25</sup>SPO.IDE.A.146] Lightweight flight recorder**

- (a) Turbine-engined aeroplanes with an MCTOM of 2 250 kg or more and aeroplanes with an MOPSC of more than 9 shall be equipped with a flight recorder if all the following conditions are met:
  - (1) they are not within the scope of point SPO.IDE.A.145(a);
  - (2) they are used for commercial operations;
  - (3) they are first issued with an individual CofA on or after 5 September 2022 .

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (b) The flight recorder shall record, by means of flight data or images, information that is sufficient to determine the flight path and aircraft speed.
- (c) The flight recorder shall be capable of retaining the flight data and the images recorded during at least the preceding 5 hours.
- (d) The flight recorder shall automatically start to record prior to the aeroplane being capable of moving under its own power and shall stop automatically after the aeroplane is no longer capable of moving under its own power.
- (e) If the flight recorder records images or audio of the flight crew compartment, then a function shall be provided which can be operated by the pilot-in-command and which modifies image and audio recordings made before the operation of that function, so that those recordings cannot be retrieved using normal replay or copying techniques.]

#### **SPO.IDE.A.150 Data link recording**

- (a) Aeroplanes first issued with an individual CofA on or after 1 January 2016 that have the capability to operate data link communications and are required to be equipped with a CVR shall record on a recorder, where applicable:
  - (1) data link communication messages related to ATS communications to and from the aeroplane, including messages applying to the following applications:
    - (i) data link initiation;
    - (ii) controller-pilot communication;
    - (iii) addressed surveillance;
    - (iv) flight information;
    - (v) as far as is practicable, given the architecture of the system, aircraft broadcast surveillance;
    - (vi) as far as is practicable, given the architecture of the system, aircraft operational control data; and
    - (vii) as far as is practicable, given the architecture of the system, graphics;
  - (2) information that enables correlation to any associated records related to data link communications and stored separately from the aeroplane; and
  - (3) information on the time and priority of data link communications messages, taking into account the system's architecture.
- (b) The recorder shall use a digital method of recording and storing data and information and a method for readily retrieving that data. The recording method shall allow the data to match the data recorded on the ground.
- (c) The recorder shall be capable of retaining data recorded for at least the same duration as set out for CVRs in SPO.IDE.A.140.
- [<sup>F13</sup>(d) If the recorder is not deployable, it shall have a device to assist in locating it under water. By 1 January 2020 at the latest, this device shall have a minimum underwater transmission time of 90 days. If the recorder is deployable, it shall have an automatic emergency locator transmitter.]

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (e) The requirements applicable to the start and stop logic of the recorder are the same as the requirements applicable to the start and stop logic of the CVR contained in SPO.IDE.A.140 (d) and (e).

#### **SPO.IDE.A.155 Flight data and cockpit voice combination recorder**

Compliance with CVR requirements and FDR requirements may be achieved by:

- (a) one flight data and cockpit voice combination recorder if the aeroplane has to be equipped with a CVR or an FDR; or
- (b) two flight data and cockpit voice combination recorders if the aeroplane has to be equipped with a CVR and an FDR.

#### **SPO.IDE.A.160 Seat safety belts and restraint systems**

Aeroplanes shall be equipped with:

- (a) a seat or station for each crew member or task specialist on board;
- (b) a seat belt on each seat, and restraint devices for each station;
- (c) [<sup>F23</sup>for other-than-complex motor-powered aeroplanes, a seat belt with upper torso restraint system on each flight crew seat, having a single point release for aeroplanes having a CofA first issued on or after 25 August 2016 ;
- (d) for complex motor-powered aeroplanes, a seat belt with upper torso restraint system, incorporating a device that will automatically restrain the occupant's torso in the event of rapid deceleration:
- (1) on each flight crew seat and on any seat alongside a pilot's seat; and
  - (2) on each observer's seat located in the flight crew compartment;]

(e) [<sup>F2</sup>The seat belt with upper torso restraint system required under point (d) shall have:

    - (1) a single point release;
    - (2) on flight crew members seats and on any seat alongside a pilot's seat, either of the following:
      - (i) two shoulder straps and a seat belt that may be used independently;
      - (ii) a diagonal shoulder strap and a seat belt that may be used independently for the following aeroplanes:
        - (A) aeroplanes with an MCTOM of 5 700 kg or less and with an MOPSC of nine or less that are compliant with the emergency landing dynamic conditions defined in the applicable certification specification;
        - (B) aeroplanes with an MCTOM of 5 700 kg or less and with an MOPSC of nine or less that are not compliant with the emergency landing dynamic conditions defined in the applicable certification specification and having an individual CofA first issued before 25 August 2016 .]

#### **SPO.IDE.A.165 Aid kit**

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*Changes to legislation: There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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- (a) Aeroplanes shall be equipped with a first-aid kit.
- (b) The first-aid kit shall be:
  - (1) readily accessible for use; and
  - (2) kept up-to-date.

#### **SPO.IDESApp170 Supplemental oxygen — pressurised aeroplanes**

- (a) Pressurised aeroplanes operated at flight altitudes for which the oxygen supply is required in accordance with (b) shall be equipped with oxygen storage and dispensing apparatus capable of storing and dispensing the required oxygen supplies.
- (b) Pressurised aeroplanes operated above flight altitudes at which the pressure altitude in the cabin compartments is above 10 000 ft shall carry enough breathing oxygen to supply all crew members and task specialists at least:
  - (1) for any period when the cabin pressure altitude exceeds 15 000 ft, but in no case less than 10 minutes' supply;
  - (2) for any period when, in the event of loss of pressurisation and taking into account the circumstances of the flight, the pressure altitude in the flight crew and cabin compartment will be between 14 000 ft and 15 000 ft;
  - (3) for any period in excess of 30 minutes when the pressure altitude in the flight crew and cabin compartment will be between 10 000 ft and 14 000 ft; and
  - (4) for no less than 10 minutes, in the case of aeroplanes operated at pressure altitudes above 25 000 ft, or operated below that altitude, but under conditions that will not allow them to descend safely to a pressure altitude of 13 000 ft within 4 minutes.
- (c) Pressurised aeroplanes operated at flight altitudes above 25 000 ft shall, in addition, be equipped with:
  - (1) a device to provide a warning indication to the flight crew of any loss of pressurisation; and
  - (2) in the case of complex motor-powered aeroplanes, quick donning masks for flight crew members.

#### **SPO.IDESApp175 Supplemental oxygen — non-pressurised aeroplanes**

- (a) Non-pressurised aeroplanes operated at flight altitudes when the oxygen supply is required in accordance with (b) shall be equipped with oxygen storage and dispensing apparatus capable of storing and dispensing the required oxygen supplies.
- (b) Non-pressurised aeroplanes operated above flight altitudes at which the pressure altitude in the cabin compartments is above 10 000 ft shall carry enough breathing oxygen to supply:
  - (1) all crew members for any period in excess of 30 minutes when the pressure altitude in the cabin compartment will be between 10 000 ft and 13 000 ft; and
  - (2) all persons on board for any period that the pressure altitude in the cabin compartment will be above 13 000 ft.

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

- (c) Notwithstanding (b), excursions of a specified duration between 13 000 ft and 16 000 ft may be undertaken without oxygen supplies, in accordance with SPO.OP.195(b).

#### **SPO.IDE118 Fire extinguishers**

- [<sup>F5</sup>(a) Aeroplanes, except ELA1 aeroplanes, shall be equipped with at least one hand fire extinguisher:
- (1) in the flight crew compartment; and
  - (2) in each cabin compartment that is separate from the flight crew compartment, except if the compartment is readily accessible to the flight crew.]
- (b) The type and quantity of extinguishing agent for the required fire extinguishers shall be suitable for the type of fire likely to occur in the compartment where the extinguisher is intended to be used and to minimise the hazard of toxic gas concentration in compartments occupied by persons.

#### **SPO.IDE119 Axe and crowbar**

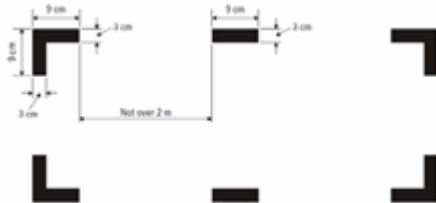
Aeroplanes with an MCTOM of more than 5 700 kg shall be equipped with at least one crash axe or crowbar located in the flight crew compartment.

#### **SPO.IDE120 Marking of break-in points**

If areas of the aeroplane's fuselage suitable for break-in by rescue crews in an emergency are marked, such areas shall be marked as shown in Figure 1.

*Figure 1*

#### **Marking of break-in points**



#### **SPO.IDE121 Emergency locator transmitter (ELT)**

- [<sup>F13</sup>(a) Aeroplanes shall be equipped with:
- (1) an ELT of any type or an aircraft localisation means meeting the requirement of Annex IV (Part CAT), CAT.GEN.MPA.210, to Regulation (EU) No 965/2012, when first issued with an individual CofA on or before 1 July 2008 ;
  - (2) an automatic ELT or an aircraft localisation means meeting the requirement of Annex IV (Part CAT), CAT.GEN.MPA.210, to Regulation (EU) No 965/2012, when first issued with an individual CofA after 1 July 2008 ; or
  - (3) a survival ELT (ELT(S)) or a personal locator beacon (PLB), carried by a crew member or a task specialist, when certified for a maximum seating configuration of six or less.]
- (b) ELTs of any type and PLBs shall be capable of transmitting simultaneously on 121,5 MHz and 406 MHz.

## **SPO.IDEEN195** **Over water**

- (a) The following aeroplanes shall be equipped with a life-jacket for each person on board, that shall be worn or stowed in a position that is readily accessible from the seat or station of the person for whose use it is provided:
- (1) single-engine landplanes when:
    - (i) flying over water beyond gliding distance from land; or
    - (ii) taking off or landing at an aerodrome or operating site where, in the opinion of the pilot-in-command, the take-off or approach path is so disposed over water that there would be a likelihood of a ditching;
  - (2) seaplanes operated over water; and
  - (3) aeroplanes operated at a distance away from land where an emergency landing is possible greater than that corresponding to 30 minutes at normal cruising speed or 50 NM, whichever is less.
- (b) Each life-jacket shall be equipped with a means of electric illumination for the purpose of facilitating the location of persons.
- (c) Seaplanes operated over water shall be equipped with:
- (1) a sea anchor and other equipment necessary to facilitate mooring, anchoring or manoeuvring the aeroplane on water, appropriate to its size, weight and handling characteristics; and
  - (2) equipment for making the sound signals as prescribed in the International Regulations for Preventing Collisions at Sea, where applicable.
- (d) The pilot-in-command of an aeroplane operated at a distance away from land where an emergency landing is possible greater than that corresponding to 30 minutes at normal cruising speed or 50 NM, whichever is the lesser, shall determine the risks to survival of the occupants of the aeroplane in the event of a ditching, based on which he/she shall determine the carriage of:
- (1) equipment for making the distress signals;
  - (2) life-rafts in sufficient numbers to carry all persons on board, stowed so as to facilitate their ready use in emergency; and
  - (3) life-saving equipment, to provide the means of sustaining life, as appropriate to the flight to be undertaken.

## **SPO.IDEEN200** **Air equipment**

- (a) Aeroplanes operated over areas in which search and rescue would be especially difficult shall be equipped with:
- (1) signalling equipment to make the distress signals;
  - (2) at least one survival ELT (ELT(S)); and
  - (3) additional survival equipment for the route to be flown taking account of the number of persons on board.

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (b) The additional survival equipment specified in (a)(3) does not need to be carried when the aeroplane:
  - (1) remains within a distance from an area where search and rescue is not especially difficult corresponding to:
    - (i) 120 minutes at one-engine-inoperative (OEI) cruising speed for aeroplanes capable of continuing the flight to an aerodrome with the critical engine(s) becoming inoperative at any point along the route or planned diversion routes; or
    - (ii) 30 minutes at cruising speed for all other aeroplanes; or
  - (2) remains within a distance no greater than that corresponding to 90 minutes at cruising speed from an area suitable for making an emergency landing, for aeroplanes certified in accordance with the applicable airworthiness standard.

#### **SPO.IDEN.205 Individual protective equipment**

Each person on board shall wear individual protective equipment that is adequate for the type of operation being undertaken.

#### **SPO.IDEN.210 Headset**

- (a) Aeroplanes shall be equipped with a headset with a boom microphone or equivalent for each flight crew member at their assigned station in the flight crew compartment.
- (b) Aeroplanes operated under IFR or at night shall be equipped with a transmit button on the manual pitch and roll control for each required flight crew member.

#### **SPO.IDEN.215 Communication equipment**

- (a) Aeroplanes operated under IFR or at night, or when required by the applicable airspace requirements, shall be equipped with radio communication equipment that, under normal radio propagating conditions, shall be capable of:
  - (1) conducting two-way communication for aerodrome control purposes;
  - (2) receiving meteorological information at any time during flight;
  - (3) conducting two-way communication at any time during flight with those aeronautical stations and on those frequencies prescribed by the appropriate authority; and
  - (4) providing for communication on the aeronautical emergency frequency 121,5 MHz.
- (b) When more than one communication equipment unit is required, each shall be independent of the other or others to the extent that a failure in any one will not result in failure of any other.

#### **SPO.IDEN.220 Navigation equipment**

- (a) Aeroplanes shall be equipped with navigation equipment that will enable them to proceed in accordance with:
  - (1) the ATS flight plan, if applicable; and
  - (2) the applicable airspace requirements.



**Changes to legislation:** There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)

- (b) Aeroplanes shall have sufficient navigation equipment to ensure that, in the event of the failure of one item of equipment at any stage of the flight, the remaining equipment shall allow safe navigation in accordance with (a), or an appropriate contingency action to be completed safely.
- (c) Aeroplanes operated on flights in which it is intended to land in IMC shall be equipped with suitable equipment capable of providing guidance to a point from which a visual landing can be performed. This equipment shall be capable of providing such guidance for each aerodrome at which it is intended to land in IMC and for any designated alternate aerodromes.
- [<sup>F12</sup>(d) For PBN operations the aircraft shall meet the airworthiness certification requirements for the appropriate navigation specification.]
- [<sup>F29</sup>(e) Aeroplanes shall be equipped with surveillance equipment in accordance with the applicable airspace requirements.]

#### Textual Amendments

**F29** Inserted by Commission Implementing Regulation (EU) 2019/1384 of 24 July 2019 amending Regulations (EU) No 965/2012 and (EU) No 1321/2014 as regards the use of aircraft listed on an air operator certificate for non-commercial operations and specialised operations, the establishment of operational requirements for the conduct of maintenance check flights, the establishment of rules on non-commercial operations with reduced cabin crew on board and introducing editorial updates concerning air operations requirements (Text with EEA relevance).

#### SPO.IDELA225 ~~225~~ **Transponder**

Where required by the airspace being flown, aeroplanes shall be equipped with a secondary surveillance radar (SSR) transponder with all the required capabilities.

#### [<sup>F12</sup>SPO.IDELA230 ~~230~~ **Management of aeronautical databases**

- (a) Aeronautical databases used on certified aircraft system applications shall meet data quality requirements that are adequate for the intended use of the data.
- (b) The operator shall ensure the timely distribution and insertion of current and unaltered aeronautical databases to all aircraft that require them.
- (c) Notwithstanding any other occurrence reporting requirements as defined in Regulation (EU) No 376/2014, the operator shall report to the database provider instances of erroneous, inconsistent or missing data that might be reasonably expected to constitute a hazard to flight.

In such cases, the operator shall inform flight crew and other personnel concerned, and shall ensure that the affected data is not used.]

## SECTION 2

### Helicopters

#### SPO.IDELA400 ~~400~~ **Instruments and equipment — general**

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (a) Instruments and equipment required by this Subpart shall be approved in accordance with the applicable airworthiness requirements if they are:
- (1) used by the flight crew to control the flight path;
  - (2) used to comply with SPO.IDE.H.215;
  - (3) used to comply with SPO.IDE.H.220; or
  - (4) installed in the helicopter.
- [<sup>F2</sup>(b) The following items, when required by this Subpart, do not need an equipment approval:
- (1) independent portable lights;
  - (2) an accurate time piece;
  - (3) first-aid kit;
  - (4) survival and signalling equipment;
  - (5) sea anchor and equipment for mooring;
  - (6) child restraint device;
  - (7) a simple PCDS used by a task specialist as a restraint device.]
- [<sup>F2</sup>(c) Instruments, equipment or accessories not required under this Annex (Part-SPO), as well as any other equipment that is not required under this Regulation, but carried on a flight, shall comply with the following requirements:
- (1) the information provided by those instruments, equipment or accessories shall not be used by the flight crew members to comply with Annex II to Regulation (EU) 2018/1139 or points SPO.IDE.H.215 and SPO.IDE.H.220 of this Annex;
  - (2) the instruments, equipment or accessories shall not affect the airworthiness of the helicopter, even in the case of failures or malfunction.]
  - (d) Instruments and equipment shall be readily operable or accessible from the station where the flight crew member that needs to use it is seated.
  - (e) Those instruments that are used by a flight crew member shall be so arranged as to permit the flight crew member to see the indications readily from his/her station, with the minimum practicable deviation from the position and line of vision which he/she normally assumes when looking forward along the flight path.
  - (f) All required emergency equipment shall be easily accessible for immediate use.

#### [<sup>F2</sup>SPO.IDE.H.215] **Minimum equipment for flight**

A flight shall not be commenced when any of the helicopter's instruments, items of equipment or functions required for the intended flight is inoperative or missing, unless either of the following conditions is fulfilled:

- (a) the helicopter is operated in accordance with the minimum equipment list (MEL);
- (b) for complex motor-powered helicopters, and for any helicopter used in commercial operations, the operator is approved by the [<sup>F30</sup>CAA] to operate the helicopter within

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

the constraints of the master minimum equipment list (MMEL) in accordance with point ORO.MLR.105(j) of Annex III;

- (c) the helicopter is subject to a permit to fly issued in accordance with the applicable airworthiness requirements.]

#### Textual Amendments

**F30** Word in Annex 8 point SPO.IDE.H.105 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(5)** (with Sch. 3) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

#### SPO.IDE.H.105 **Updating lights**

Helicopters operated at night shall be equipped with:

- (a) an anti-collision light system;
- (b) navigation/position lights;
- (c) a landing light;
- (d) lighting supplied from the helicopter's electrical system to provide adequate illumination for all instruments and equipment essential to the safe operation of the helicopter;
- (e) lighting supplied from the helicopter's electrical system to provide illumination in all cabin compartments;
- (f) an independent portable light for each crew member station; and
- (g) lights to conform with the International Regulations for Preventing Collisions at Sea if the helicopter is amphibious.

#### SPO.IDE.H.120 **Operations under VFR — flight and navigational instruments and associated equipment**

- (a) Helicopters operated under VFR by day shall be equipped with a means of measuring and displaying the following:
  - (1) magnetic heading,
  - (2) time in hours, minutes and seconds,
  - (3) [F<sup>2</sup>barometric altitude,]
  - (4) indicated airspeed, and
  - (5) slip.
- (b) Helicopters operated under VMC overwater and out of sight of the land or under VMC at night, shall be, in addition to (a), equipped with:
  - (1) a means of measuring and displaying:
    - (i) attitude,
    - (ii) vertical speed, and

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (iii) stabilised heading;
- (2) a means of indicating when the supply of power to the gyroscopic instruments is not adequate; and
- (3) for complex motor-powered helicopters, a means of preventing malfunction of the airspeed indicating system required in (a)(4) due to condensation or icing.
- (c) Helicopters operated when the visibility is less than 1 500 m, or in conditions where they cannot be maintained in a desired flight path without reference to one or more additional instruments, shall be, in addition to (a) and (b), equipped with a means of preventing malfunction of the airspeed indicating system required in (a)(4) due to condensation or icing.
- (d) Whenever two pilots are required for the operation, helicopters shall be equipped with an additional separate means of displaying:
  - (1) [F<sup>2</sup>barometric altitude,]
  - (2) indicated airspeed,
  - (3) slip,
  - (4) attitude, if applicable,
  - (5) vertical speed, if applicable, and
  - (6) stabilised heading, if applicable.

**SPO.IDEOP.127 Conditions under IFR — flight and navigational instruments and associated equipment**

Helicopters operated under IFR shall be equipped with:

- (a) a means of measuring and displaying:
  - (1) magnetic heading,
  - (2) time in hours, minutes and seconds,
  - (3) [F<sup>2</sup>barometric altitude,]
  - (4) indicated airspeed,
  - (5) vertical speed,
  - (6) slip,
  - (7) attitude,
  - (8) stabilised heading, and
  - (9) outside air temperature;
- (b) a means of indicating when the supply of power to the gyroscopic instruments is not adequate;
- (c) whenever two pilots are required for the operation, an additional separate means of displaying:

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (1) [<sup>F2</sup>barometric altitude,]
  - (2) indicated airspeed,
  - (3) vertical speed,
  - (4) slip,
  - (5) attitude, and
  - (6) stabilised heading;
- (d) a means of preventing malfunction of the airspeed indicating system required by (a) (4) and (c)(2) due to condensation or icing;
- (e) an additional means of measuring and displaying attitude as a standby instrument; and
- (f) the following for complex motor-powered helicopters:
- (1) an alternate source of static pressure; and
  - (2) a chart holder in an easily readable position that can be illuminated for night operations.

#### **SPO.IDEAL126 Additional equipment for single-pilot operation under IFR**

Helicopters operated under IFR with a single pilot shall be equipped with an autopilot with at least altitude hold and heading mode.

#### **SPO.IDEAL132 Airborne weather detecting equipment — complex motor-powered helicopters**

Helicopters operated under IFR or at night shall be equipped with airborne weather detecting equipment when current weather reports indicate that thunderstorms or other potentially hazardous weather conditions, regarded as detectable with airborne weather detecting equipment, may be expected to exist along the route to be flown.

#### **SPO.IDEAL133 Additional equipment for operations in icing conditions at night — complex motor-powered helicopters**

- (a) Helicopters operated in expected or actual icing conditions at night shall be equipped with a means to illuminate or detect the formation of ice.
- (b) The means to illuminate the formation of ice shall not cause glare or reflection that would handicap flight crew members in the performance of their duties.

#### **SPO.IDEAL135 Flight crew interphone system**

Helicopters operated by more than one flight crew member shall be equipped with a flight crew interphone system, including headsets and microphones for use by all flight crew members.

#### **SPO.IDEAL140 Cockpit voice recorder**

- (a) Helicopters with an MCTOM of more than 7 000 kg and first issued with an individual CofA on or after 1 January 2016 shall be equipped with a CVR.
- (b) The CVR shall be capable of retaining data recorded during at least the preceding 2 hours.
- (c) The CVR shall record with reference to a timescale:

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (1) voice communications transmitted from or received in the flight crew compartment by radio;
  - (2) flight crew members' voice communications using the interphone system and the public address system, if installed;
  - (3) the aural environment of the cockpit, including, without interruption, the audio signals received from each crew microphone; and
  - (4) voice or audio signals identifying navigation or approach aids introduced into a headset or speaker.
- (d) The CVR shall start automatically to record prior to the helicopter moving under its own power and shall continue to record until the termination of the flight when the helicopter is no longer capable of moving under its own power.
- (e) In addition to (d), depending on the availability of electrical power, the CVR shall start to record as early as possible during the cockpit checks prior to engine start at the beginning of the flight until the cockpit checks immediately following engine shutdown at the end of the flight.
- [<sup>F13</sup>(f) If the CVR is not deployable, it shall have a device to assist in locating it under water. By 1 January 2020 at the latest, this device shall have a minimum underwater transmission time of 90 days. If the CVR is deployable, it shall have an automatic emergency locator transmitter.]

#### **SPO.IDE.H.145 data recorder**

- (a) Helicopters with an MCTOM of more than 3 175 kg and first issued with an individual CofA on or after 1 January 2016 shall be equipped with an FDR that uses a digital method of recording and storing data and for which a method of readily retrieving that data from the storage medium is available.
  - (b) The FDR shall record the parameters required to determine accurately the helicopter flight path, speed, attitude, engine power, configuration and operation and be capable of retaining data recorded during at least the preceding 10 hours.
  - (c) Data shall be obtained from helicopter sources that enable accurate correlation with information displayed to the flight crew.
  - (d) The FDR shall start automatically to record the data prior to the helicopter being capable of moving under its own power and shall stop automatically after the helicopter is incapable of moving under its own power.
- [<sup>F13</sup>(e) If the FDR is not deployable, it shall have a device to assist in locating it under water. By 1 January 2020 at the latest, this device shall have a minimum underwater transmission time of 90 days. If the FDR is deployable, it shall have an automatic emergency locator transmitter.]

#### **[<sup>F25</sup>SPO.IDE.H.145] High weight flight recorder**

- (a) Turbine-engined helicopters with an MCTOM of 2 250 kg or more shall be equipped with a flight recorder if all the following conditions are met:
  - (1) they are within the scope of point SPO.IDE.H.145(a);
  - (2) they are used for commercial operations;

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (3) they are first issued with an individual CofA on or after 5 September 2022 .
- (b) The flight recorder shall record, by means of flight data or images, information that is sufficient to determine the flight path and aircraft speed.
- (c) The flight recorder shall be capable of retaining the flight data and the images recorded during at least the preceding 5 hours.
- (d) The flight recorder shall automatically start to record prior to the helicopter being capable of moving under its own power and shall stop automatically after the helicopter is no longer capable of moving under its own power.
- (e) If the flight recorder records images or audio of the flight crew compartment, then a function shall be provided which can be operated by the pilot-in-command and which modifies image and audio recordings made before the operation of that function, so that those recordings cannot be retrieved using normal replay or copying techniques.]

#### **SPO.IDE.H.140 Data link recording**

- (a) Helicopters first issued with an individual CofA on or after 1 January 2016 that have the capability to operate data link communications and are required to be equipped with a CVR shall record on a recorder, where applicable:
  - (1) data link communication messages related to ATS communications to and from the helicopter, including messages applying to the following applications:
    - (i) data link initiation;
    - (ii) controller-pilot communication;
    - (iii) addressed surveillance;
    - (iv) flight information;
    - (v) as far as is practicable, given the architecture of the system, aircraft broadcast surveillance;
    - (vi) as far as is practicable, given the architecture of the system, aircraft operational control data; and
    - (vii) as far as is practicable, given the architecture of the system, graphics;
  - (2) information that enables correlation to any associated records related to data link communications and stored separately from the helicopter; and
  - (3) information on the time and priority of data link communications messages, taking into account the system's architecture.
- (b) The recorder shall use a digital method of recording and storing data and information and a method for readily retrieving that data. The recording method shall allow the data to match the data recorded on the ground.
- (c) The recorder shall be capable of retaining data recorded for at least the same duration as set out for CVRs in SPO.IDE.H.140.
- [<sup>F13</sup>(d) If the recorder is not deployable, it shall have a device to assist in locating it under water. By 1 January 2020 at the latest, this device shall have a minimum underwater

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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transmission time of 90 days. If the recorder is deployable, it shall have an automatic emergency locator transmitter.]

- (e) The requirements applicable to the start and stop logic of the recorder are the same as the requirements applicable to the start and stop logic of the CVR contained in SPO.IDE.H.140 (d) and (e).

#### **SPO.IDE.H.145 Flight data and cockpit voice combination recorder**

Compliance with CVR and FDR requirements may be achieved by one flight data and cockpit voice combination recorder.

#### **SPO.IDE.H.160 Seat safety belts and restraint systems**

- (a) Helicopters shall be equipped with:
- (1) a seat or station for each crew member or task specialist on board;
  - (2) a seat belt on each seat, and restraint devices for each station;
  - (3) for helicopters first issued with an individual CofA after 31 December 2012, a seat belt with an upper torso restraint system for each seat; and
  - (4) a seat belt with upper torso restraint system incorporating a device that will automatically restrain the occupant's torso in the event of rapid deceleration on each flight crew seat.
- (b) A seat belt with upper torso restraint system shall have a single point release.

#### **SPO.IDE.H.165 First aid kit**

- (a) Helicopters shall be equipped with a first-aid kit.
- (b) The first-aid kit shall be:
- (1) readily accessible for use; and
  - (2) kept up-to-date.

#### **SPO.IDE.H.175 Supplemental oxygen — non-pressurised helicopters**

- (a) Non-pressurised helicopters operated at flight altitudes when the oxygen supply is required in accordance with (b) shall be equipped with oxygen storage and dispensing apparatus capable of storing and dispensing the required oxygen supplies.
- (b) Non-pressurised helicopters operated above flight altitudes at which the pressure altitude in the cabin compartments is above 10 000 ft shall carry enough breathing oxygen to supply:
- (1) all crew members for any period in excess of 30 minutes when the pressure altitude in the cabin compartment will be between 10 000 ft and 13 000 ft; and
  - (2) all crew members and task specialists for any period that the pressure altitude in the cabin compartment will be above 13 000 ft.
- (c) Notwithstanding (b), excursions of a specified duration between 13 000 ft and 16 000 ft may be undertaken without oxygen supplies, -in accordance with SPO.OP.195(b).

#### **SPO.IDE.H.180 Fire extinguishers**



**Changes to legislation:** There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)

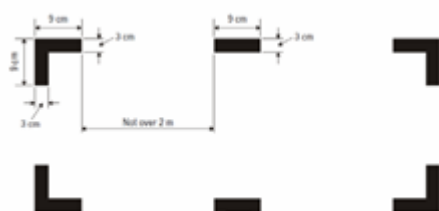
- (a) Helicopters, except ELA2 helicopters, shall be equipped with at least one hand fire extinguisher:
  - (1) in the flight crew compartment; and
  - (2) in each cabin compartment that is separate from the flight crew compartment, except if the compartment is readily accessible to the flight crew.
- (b) The type and quantity of extinguishing agent for the required fire extinguishers shall be suitable for the type of fire likely to occur in the compartment where the extinguisher is intended to be used and to minimise the hazard of toxic gas concentration in compartments occupied by persons.

#### **SPO.IDEN.185 Marking of break-in points**

If areas of the helicopter's fuselage suitable for break-in by rescue crews in an emergency are marked, such areas shall be marked as shown in Figure 1.

Figure 1

#### **Marking of break-in points**



#### **SPO.IDEN.190 Emergency locator transmitter (ELT)**

- (a) Helicopters certified for a maximum seating configuration above six shall be equipped with:
  - (1) an automatic ELT; and
  - (2) one survival ELT (ELT(S)) in a life-raft or life-jacket when the helicopter is operated at a distance from land corresponding to more than 3 minutes flying time at normal cruising speed.
- (b) Helicopters certified for a maximum seating configuration of six or less shall be equipped with an ELT(S) or a personal locator beacon (PLB), carried by a crew member or a task specialist.
- (c) ELTs of any type and PLBs shall be capable of transmitting simultaneously on 121,5 MHz and 406 MHz.

#### **SPO.IDEN.195 [Flight over water — other-than complex motor-powered helicopters]**

- (a) Helicopters shall be equipped with a life-jacket for each person on board, that shall be worn or stowed in a position that is readily accessible from the seat or station of the person for whose use it is provided, when:
  - (1) flying over water beyond autorotational distance from the land where in case of the critical engine failure, the helicopter is not able to sustain level flight; or

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (2) flying over water at a distance of land corresponding to more than 10 minutes flying at normal cruising speed, where in case of the critical engine failure, the helicopter is able to sustain level flight; or
- (3) taking off or landing at an aerodrome/operating site where the take-off or approach path is over water.
- (b) Each life-jacket shall be equipped with a means of electric illumination for the purpose of facilitating the location of persons.
- (c) The pilot-in-command of a helicopter operated on a flight over water at a distance from land corresponding to more than 30 minutes flying time at normal cruising speed or 50 NM, whichever is less, shall determine the risks to survival of the occupants of the helicopter in the event of a ditching, based on which he/she shall determine the carriage of:
  - (1) equipment for making the distress signals;
  - (2) life-rafts in sufficient numbers to carry all persons on board, stowed so as to facilitate their ready use in emergency; and
  - (3) life-saving equipment to provide the means of sustaining life, as appropriate to the flight to be undertaken.
- (d) The pilot-in-command shall determine the risks to survival of the occupants of the helicopter in the event of a ditching, when deciding if the life-jackets required in (a) shall be worn by all occupants.

#### **SPO.IDEL197 — complex motor-powered helicopters**

- (a) Helicopters shall be equipped with a life-jacket for each person on board, that shall be worn or stowed in a position that is readily accessible from the seat or station of the person for whose use it is provided, when:
  - (1) operated on a flight over water at a distance from land corresponding to more than 10 minutes flying time at normal cruising speed, where in the case of the critical engine failure, the helicopter is able to sustain level flight;
  - (2) operated on a flight over water beyond auto-rotational distance from the land, where in the case of the critical engine failure, the helicopter is not able to sustain level flight; or
  - (3) taking off or landing at an aerodrome or operating site where the take-off or approach path is so disposed over water that in the event of a mishap there would be the likelihood of a ditching.
- (b) Each life-jacket shall be equipped with a means of electric illumination for the purpose of facilitating the location of persons.

#### **[<sup>F23</sup>SPO.IDEL198] — complex motor-powered helicopters**

Each person on board shall wear a survival suit when so determined by the pilot-in-command based on a risk assessment taking into account the following conditions:

- (a) flights over water beyond autorotational distance or safe forced-landing distance from land, where, in the case of a critical engine failure, the helicopter is not able to sustain level flight; and

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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- (b) the weather report or forecasts available to the pilot-in-command indicate that the sea temperature will be less than plus 10 °C during the flight.]

**SPO.IDEHL199 Helicopters, survival ELTs and survival equipment on extended overwater flights — complex motor-powered helicopters**

Helicopters operated:

- (a) on a flight over water at a distance from land corresponding to more than 10 minutes flying time at normal cruising speed where in the case of the critical engine failure, the helicopter is able to sustain level flight; or
- (b) on a flight over water at a distance corresponding to more than 3 minutes flying time at normal cruising speed, where in the case of the critical engine failure, the helicopter is not able to sustain level flight, and if so determined by the pilot-in-command by means of a risk assessment, shall be equipped with:
  - (1) at least one life-raft with a rated capacity of not less than the maximum number of persons on board, stowed so as to facilitate their ready use in emergency;
  - (2) at least one survival ELT (ELT(S)) for each required life-raft; and
  - (3) life-saving equipment, including means of sustaining life, as appropriate to the flight to be undertaken.

**SPO.IDESH200 Survival equipment**

Helicopters operated over areas in which search and rescue would be especially difficult shall be equipped with:

- (a) signalling equipment to make distress signals;
- (b) at least one survival ELT (ELT(S)); and
- (c) additional survival equipment for the route to be flown taking account of the number of persons on board.

**<sup>F11</sup>SPO.IDEHL201 Additional requirements for helicopters conducting offshore operations in a hostile sea area — complex motor-powered helicopters**

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**SPO.IDEHL202 Helicopters certified for operating on water — miscellaneous equipment**

Helicopters certified for operating on water shall be equipped with:

- (a) a sea anchor and other equipment necessary to facilitate mooring, anchoring or manoeuvring the helicopter on water, appropriate to its size, weight and handling characteristics; and
- (b) equipment for making the sound signals prescribed in the International Regulations for Preventing Collisions at Sea, where applicable.

**SPO.IDEHL203 Helicopters on flights over water — ditching**

[<sup>F3</sup>Complex motor-powered helicopters operated on a flight over water in a hostile environment at a distance from land corresponding to more than 10 minutes' flying time at normal cruising

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

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speed and other-than complex motor-powered helicopters flying over water in a hostile environment beyond a distance of 50 NM from land shall be:]

- (a) designed for landing on water in accordance with the relevant airworthiness code;
- (b) certified for ditching in accordance with the relevant airworthiness code; or
- (c) fitted with emergency flotation equipment.

#### **SPO.IDE.H.135 Individual protective equipment**

Each person on board shall wear individual protective equipment that is adequate for the type of operation being undertaken.

#### **SPO.IDE.H.140 Headset**

Whenever a radio communication and/or radio navigation system is required, helicopters shall be equipped with a headset with boom microphone or equivalent and a transmit button on the flight controls for each required pilot, crew member and/or task specialist at his/her assigned station.

#### **SPO.IDE.H.145 Communication equipment**

- (a) Helicopters operated under IFR or at night, or when required by the applicable airspace requirements, shall be equipped with radio communication equipment that, under normal radio propagating conditions, shall be capable of:
  - (1) conducting two-way communication for aerodrome control purposes;
  - (2) receiving meteorological information;
  - (3) conducting two-way communication at any time during flight with those aeronautical stations and on those frequencies prescribed by the appropriate authority; and
  - (4) providing for communication on the aeronautical emergency frequency 121,5 MHz.
- (b) When more than one communications equipment unit is required, each shall be independent of the other or others to the extent that a failure in any one will not result in failure of any other.
- (c) When a radio communication system is required, and in addition to the flight crew interphone system required in SPO.IDE.H.135, helicopters shall be equipped with a transmit button on the flight controls for each required pilot and crew member at his/her assigned station.

#### **SPO.IDE.H.150 Navigation equipment**

- (a) Helicopters shall be equipped with navigation equipment that will enable them to proceed in accordance with:
  - (1) the ATS flight plan, if applicable; and
  - (2) the applicable airspace requirements.
- (b) Helicopters shall have sufficient navigation equipment to ensure that, in the event of the failure of one item of equipment at any stage of the flight, the remaining equipment shall allow safe navigation in accordance with (a), or an appropriate contingency action to be completed safely.

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*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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- (c) Helicopters operated on flights in which it is intended to land in IMC shall be equipped with navigation equipment capable of providing guidance to a point from which a visual landing can be performed. This equipment shall be capable of providing such guidance for each aerodrome at which it is intended to land in IMC and for any designated alternate aerodromes.
- [<sup>F12</sup>(d) For PBN operations the aircraft shall meet the airworthiness certification requirements for the appropriate navigation specification.]
- [<sup>F29</sup>(e) Helicopters shall be equipped with surveillance equipment in accordance with the applicable airspace requirements.]

**SPO.IDE11235ponder**

Where required by the airspace being flown, helicopters shall be equipped with a secondary surveillance radar (SSR) transponder with all the required capabilities.

[<sup>F12</sup>**SPO.IDE11230Management of aeronautical databases**

- (a) Aeronautical databases used on certified aircraft system applications shall meet data quality requirements that are adequate for the intended use of the data.
- (b) The operator shall ensure the timely distribution and insertion of current and unaltered aeronautical databases to all aircraft that require them.
- (c) Notwithstanding any other occurrence reporting requirements as defined in Regulation (EU) No 376/2014, the operator shall report to the database provider instances of erroneous, inconsistent or missing data that might be reasonably expected to constitute a hazard to flight.

In such cases, the operator shall inform flight crew and other personnel concerned, and shall ensure that the affected data is not used.]

<sup>F9</sup>**SECTION 3**

**Sailplanes**

**SPO.IDE15100Instruments and equipment — general**

- (a) Instruments and equipment required by this Subpart shall be approved in accordance with the applicable airworthiness requirements if they are:  
.....
- (b) The following items, when required by this Subpart, do not need an equipment approval:  
.....
- (c) Instruments and equipment not required by this Subpart as well as any other equipment that is not required by other applicable Annexes, but is carried on a flight, shall comply with the following:  
.....
- (d) .....

Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)

(e) .....

**SPO.IDESi105 Minimum equipment for flight**

.....

**SPO.IDESi105 Operations under VFR — flight and navigational instruments**

(a) Sailplanes operated under VFR by day shall be equipped with a means of measuring and displaying the following:

.....

(b) Sailplanes operating in conditions where the sailplane cannot be maintained in a desired attitude without reference to one or more additional instruments, shall be, in addition to (a), equipped with a means of measuring and displaying:

.....

**SPO.IDESi120 flying — flight and navigational instruments**

.....

**SPO.IDESa135 and restraint systems**

(a) Sailplanes shall be equipped with:

.....

(b) .....

**SPO.IDESi140 Supplemental oxygen**

.....

**SPO.IDESi155 over water**

.....

**SPO.IDESi160 Survival equipment**

.....

**SPO.IDESa145 communication equipment**

(a) .....

(b) .....

**SPO.IDESa150 Navigation equipment**

.....

**SPO.IDESa155ponder**

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*Changes to legislation: There are currently no known outstanding effects for the  
Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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<sup>F15</sup>SECTION 4

**Balloons**

**SPO.IDEIB.100 Instruments and equipment — general**

(a) Instruments and equipment required by this Subpart shall be approved in accordance with the applicable airworthiness requirements if they are:

.....

(b) The following items, when required by this Subpart, do not need an equipment approval:

.....

(c) Instruments and equipment not required by this Subpart as well as any other equipment that is not required by other applicable Annexes, but is carried on a flight, shall comply with the following:

.....

(d) .....

(e) .....

**SPO.IDEIB.105 Minimum equipment for flight**

.....

**SPO.IDEIB.110 Operating lights**

.....

**SPO.IDEIB.115 Operations under VFR — flight and navigational instruments and associated equipment**

.....

**SPO.IDEIB.120 First-aid kit**

(a) .....

(b) The first-aid kit shall be:

.....

**SPO.IDEIB.125 Supplemental oxygen**

.....

**SPO.IDEIB.127 Fire extinguishers**

.....

**SPO.IDEIB.130 Survival equipment**

.....

**SPO.IDEIB.135 Survival equipment**

.....

Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)

**SPO.IDE115 Miscellaneous equipment**

.....

**SPO.IDE115 Radio communication equipment**

- (a) .....
- (b) .....

**SPO.IDE115 Barfender**

.....

**SUBPART 5 SPECIFIC REQUIREMENTS**

E

*SECTION 1*

***Helicopter external sling load operations (HESLO)***

**[<sup>F2</sup>SPO.SPEC.HESLO:100 Standard operating procedures**

The standard operating procedures for HESLO shall specify:

- (a) the equipment to be carried, including its operating limitations and appropriate entries in the MEL, as applicable;
- (b) crew composition and experience requirements of crew members and task specialists;
- (c) the relevant theoretical and practical training for crew members to perform their tasks, the relevant training for task specialists to perform their tasks, and the qualification and nomination of persons providing such training to crew members and task specialists;
- (d) responsibilities and duties of crew members and task specialists;
- (e) helicopter performance criteria necessary to be met to conduct HESLO operations;
- (f) normal, abnormal and emergency procedures.]

**SPO.SPEC.HESLO:150 Helicopter equipment**

The helicopter shall be equipped with at least:

- (a) one cargo safety mirror or alternative means to see the hook(s)/load; and
- (b) one load meter, unless there is another method of determining the weight of the load.

**SPO.SPEC.HESLO:110 Transport of dangerous goods**

The operator transporting dangerous goods to or from unmanned sites or remote locations shall apply to the [<sup>F31</sup>CAA] for an exemption from the provisions of the Technical Instructions if they intend not to comply with the requirements of those Instructions.



*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

#### Textual Amendments

- F31** Word in Annex 8 SPO.SPEC.HESLO.110 substituted (31.12.2020) by [The Aviation Safety \(Amendment etc.\) \(EU Exit\) Regulations 2019 \(S.I. 2019/645\)](#), regs. 1, **370(6)** (with Sch. 3) (as amended by [S.I. 2019/1098](#), regs. 1(3), 12); 2020 c. 1, Sch. 5 para. 1(1)

## SECTION 2

### *Human external cargo operations (HEC)*

#### **SPO.SPEC.HEC.100 Standard operating procedures**

The standard operating procedures for HEC shall specify:

- (a) the equipment to be carried, including its operating limitations and appropriate entries in the MEL, as applicable;
- (b) crew composition and experience requirements of crew members and task specialists;
- (c) the relevant theoretical and practical training for crew members to perform their tasks, the relevant training for task specialists to perform their tasks, and the qualification and nomination of persons providing such training to crew members and task specialists;
- (d) responsibilities and duties of crew members and task specialists;
- (e) helicopter performance criteria necessary to be met to conduct HEC operations;
- (f) normal, abnormal and emergency procedures.]

#### **SPO.SPEC.HEC.110 HEC equipment**

- (a) The helicopter shall be equipped with:
  - (1) hoist operations equipment or cargo hook;
  - (2) one cargo safety mirror or alternative means to see the hook; and
  - (3) one load meter, unless there is another method of determining the weight of the load.
- [<sup>F2</sup>(b) The installation of all hoist and cargo hook equipment other than a simple PCDS, and any subsequent modifications shall have an airworthiness approval appropriate to the intended function.]

## SECTION 3

### *Parachute operations (PAR)*

#### **SPO.SPEC.PAR.100 Standard operating procedures**

The standard operating procedures for PAR shall specify:

- (a) the equipment to be carried, including its operating limitations and appropriate entries in the MEL, as applicable;
- (b) crew composition and experience requirements of crew members and task specialists;

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- (c) the relevant training for crew members and task specialists to perform their task and the qualification and nomination of persons providing such training to the crew members and task specialists;
- (d) responsibilities and duties of crew members and task specialists;
- (e) performance criteria necessary to be met to conduct parachute operations;
- (f) normal, abnormal and emergency procedures.

**SPO.SPEC.PAR.106 crew members and task specialists**

The requirement for task specialist’s responsibilities as laid down in SPO.GEN.106(c) shall not be applicable for task specialists performing parachute jumping.

**SPO.SPEC.AIR.110**

Notwithstanding SPO.IDE.A.160(a) and SPO.IDE.H.160(a)(1), the floor of the aircraft may be used as a seat, provided means are available for the task specialist to hold or strap on.

**SPO.SPEC.AIR.115 Supplemental oxygen**

Notwithstanding SPO.OP.195(a), the requirement to use supplemental oxygen shall not be applicable for crew members other than the pilot-in-command and for task specialists carrying out duties essential to the specialised task, whenever the cabin altitude:

- (a) exceeds 13 000 ft, for a period of not more than 6 minutes.
- (b) exceeds 15 000 ft, for a period of not more 3 minutes.

**SPO.SPEC.PAR.120 Flight over water**

**[<sup>F2</sup> SPO.SPEC.PAR.125 Releasing of dangerous goods**

Notwithstanding point SPO.GEN.155, parachutists may exit the aircraft for the purpose of parachute display over congested areas of cities, towns or settlements or over an open-air assembly of persons whilst carrying smoke trail devices, provided those are manufactured for that purpose.]

SECTION 4

*Aerobic flights (ABF)*

**SPO.SPEC.ABF.100 operating procedures**

The standard operating procedures for ABF shall specify:

- (a) the equipment to be carried, including its operating limitations and appropriate entries in the MEL, as applicable;
- (b) crew composition and experience requirements of crew members and task specialists;
- (c) the relevant training for crew members and task specialists to perform their task and the qualification and nomination of persons providing such training to the crew members and task specialists;
- (d) responsibilities and duties of crew members and task specialists;

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- (e) performance criteria necessary to be met to conduct aerobatic flights;
- (f) normal, abnormal and emergency procedures.

#### **SPO.SPEC.ABF.105, manuals and information to be carried**

The following documents listed in SPO.GEN.140(a) need not be carried during aerobatic flights:

- (a) details of the filed ATS flight plan, if applicable;
- (b) current and suitable aeronautical charts for the route/area of the proposed flight and all routes along which it is reasonable to expect that the flight may be diverted;
- (c) procedures and visual signals information for use by intercepting and intercepted aircraft; and
- (d) information concerning search and rescue services for the area of the intended flight.

#### **SPO.SPEC.ABF.115**

The following equipment requirements need not be applicable to aerobatic flights:

- (a) first-aids kit as laid down in SPO.IDE.A.165 and SPO.IDE.H.165;
- (b) hand-fire extinguishers as laid down in SPO.IDE.A.180 and SPO.IDE.H.180; and
- (c) emergency locator transmitters or personal locator beacons as laid down in SPO.IDE.A.190 and SPO.IDE.H.190.

### *[<sup>F29</sup>SECTION 5*

#### *Maintenance check flights (MCFs)*

#### **SPO.SPEC.MCF.100 maintenance check flight**

Before conducting a maintenance check flight, the operator shall determine the applicable level of the maintenance check flight as follows:

- (a) [<sup>F18</sup> Level A ' maintenance check flight for a flight where the use of abnormal or emergency procedures, as defined in the aircraft flight manual, is expected, or where a flight is required to prove the functioning of a backup system or other safety devices;]
- (b) a ' Level B ' maintenance check flight for any maintenance check flights other than a ' Level A ' maintenance check flight.

#### **SPO.SPEC.MCF.105 programme for a ' Level A ' maintenance check flight**

Before conducting a Level A maintenance check flight with a complex motor-powered aircraft, the operator shall develop and document a flight programme.

#### **SPO.SPEC.MCF.110 the check flight manual for a ' Level A ' maintenance check flight**

The operator conducting a ' Level A ' maintenance check flight shall:

- (a) describe those operations and associated procedures in the operations manual referred to in point ORO.MLR.100 of Annex III or in a dedicated maintenance check flight manual;
- (b) update the manual when necessary;

*Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII. (See end of Document for details)*

- (c) inform all affected personnel of the manual and of its changes that are relevant to their duties;
- (d) provide the [F32CAA] with the manual and its updates.

#### Textual Amendments

**F32** Word in Annex 8 point SPO.SPEC.MCF.110 substituted (31.12.2020) by [The Aviation Safety \(Amendment\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1116\)](#), regs. 1(2), **68**

#### **SPO.SPEC.MCF.115 requirements for a ‘ Level A ’ maintenance check flight**

- (a) The operator shall select adequate flight crew members considering the aircraft complexity and the level of the maintenance check flight. When selecting flight crew members for a ‘ Level A ’ maintenance check flight with a complex motor-powered aircraft, the operator shall ensure all of the following:
  - (1) that the pilot-in-command has followed a training course in accordance with point SPO.SPEC.MCF.120; if the training has been conducted in a simulator, the pilot shall conduct at least one ‘ Level A ’ maintenance check flight as a pilot monitoring or as an observer before flying as a pilot-in-command on a ‘ Level A ’ maintenance check flight;
  - (2) that the pilot-in-command has completed on aircraft of the same aircraft category as the aircraft to be flown a minimum of 1 000 flight hours, of which at least 400 hours as a pilot-in-command in a complex motor-powered aircraft and at least 50 hours on the particular aircraft type.

Notwithstanding point (2) of the first paragraph, if the operator introduces a new aircraft type to its operation and has assessed the pilot's qualifications in accordance with an established assessment procedure, the operator may select a pilot having less than 50 hours experience on the particular aircraft type.
- (b) Pilots holding a flight test rating in accordance with Regulation (EU) No 1178/2011 shall be given full credit for the training course stipulated in point (a)(1) of this point, provided that the pilots holding a flight test rating have obtained the required initial and recurrent crew resource management training in accordance with points ORO.FC.115 and ORO.FC.215 of Annex III.
- (c) A pilot-in-command shall not perform a ‘ Level A ’ maintenance check flight on a complex motor-powered aircraft unless the pilot-in-command has carried out a ‘ Level A ’ maintenance check flight within the preceding 36 months.
- (d) Recency as pilot-in-command on a ‘ Level A ’ maintenance check flight is regained after performing a ‘ Level A ’ maintenance check flight as an observer or a pilot monitoring, or after acting as the pilot-in-command in a ‘ Level A ’ maintenance check flight in a simulator.

#### **SPO.SPEC.MCF.120 training course for Level A maintenance check flights**

- (a) The training course required for a ‘ Level A ’ maintenance check flight shall be conducted in accordance with a detailed syllabus.
- (b) The flight instruction for the training course shall be conducted in either of the following ways:

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Commission Regulation (EU) No 965/2012, ANNEX VIII . (See end of Document for details)*

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- (1) in a simulator which, for training purposes, adequately reflects the reaction of the aircraft and its systems to the checks being conducted;
  - (2) during a flight in an aircraft demonstrating maintenance check flight techniques.
- (c) A training course followed on one aircraft category is considered valid for all aircraft types of that category.
- (d) When considering the aircraft used for the training and the aircraft to be flown during the maintenance check flight, the operator shall specify whether differences or familiarisation training is required and describe the contents of such a training.

#### **SPO.SPEC.COMM.125 Position and persons on board**

- (a) The operator shall establish procedures to identify the need for additional task specialists.
- (b) For a ‘ Level A ’ maintenance check flight, the operator shall define in its manual the policy for other persons on board.
- (c) For a ‘ Level A ’ maintenance check flight, a task specialist or additional pilot is required in the flight crew compartment to assist the flight crew members, unless the aircraft configuration does not permit it or the operator can justify, considering the flight crew members workload based on the flight programme, that the flight crew members does not require additional assistance.

#### **SPO.SPEC.COMM.130 Abnormal or emergency procedures in flight**

By way of derogation from point SPO.OP.185 a task specialist may be on board a ‘ Level A ’ maintenance check flight if the task specialist is required to meet the intention of the flight and has been identified in the flight programme.

#### **SPO.SPEC.COMM.135 Limitations and rest requirements**

When assigning crew members to maintenance check flights, operators subject to Subpart FTL of Annex III (Part-ORO) shall apply the provisions of that Subpart.

#### **SPO.SPEC.COMM.140 equipment**

When a maintenance check flight is intended to check the proper functioning of a system or equipment, that system or equipment shall be identified as potentially unreliable and appropriate mitigation measures shall be agreed prior to the flight in order to minimise risks to flight safety.

#### **SPO.SPEC.COMM.145 Cockpit voice recorder, flight data recorder and data link recording requirements for AOC holders**

For a maintenance check flight of an aircraft otherwise used for CAT operations, the provisions for cockpit voice recorders (CVR), flight data recorders (FDR) and data link recorders (DLR) of Annex IV (Part-CAT) shall continue to apply.]]

**Changes to legislation:**

There are currently no known outstanding effects for the Commission Regulation (EU) No 965/2012, ANNEX VIII .