ANNEX VII. PART - NCO

NON - COMMERCIAL AIR OPERATIONS WITH OTHER - THAN

COMPLEX MOTOR - POWERED AIRCRAFT

COMMISSION REGULATION (EU) N^{o} 800 / 2013 of 14 August 2013 amending Regulation (EU) N^{o} 965 / 2012 laying down technical requirements and administrative procedures related to Air Operations pursuant to Regulation (EC) N^{o} 216 / 2008 of the European Parliament and of the Council.

COMMISSION REGULATION (EU) N^{o} 2016 / 1199 of 22 July 2016

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ANNEX VII. PART - NCO

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RECORD of REVISION

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ANNEX VII. PART - NCO

NON - COMMERCIAL AIR OPERATIONS WITH OTHER - THAN COMPLEX MOTOR - POWERED AIRCRAFT

SUBPART A. GENERAL REQUIREMENTS

NCO. GEN. 100. Competent Authority

a) The Competent Authority shall be the authority designated by the Member State where the aircraft is registered, for Armenian registered aircraft the Competent Authority is GDCA of RA ;
b) If the aircraft is registered in a third country, the competent authority shall be the authority designated by the Member State where the operator is established or residing.

NCO. GEN. 101. Means of Compliance

Alternative means of compliance to those adopted by the EASA may be used by an operator to establish compliance with Regulation (EC) N^{o} 216 / 2008 and its Implementing Rules.

NCO. GEN. 102. Touring Motor Gliders, Powered Sailplanes and Mixed Balloons

a) Touring Motor Gliders shall be operated following the requirements for :
1) aeroplanes when they are power - driven by an engine ; *and*
2) sailplanes when operated without using an engine.
b) Touring Motor Gliders shall be equipped in compliance with the requirements applicable to aeroplanes unless otherwise specified in Subpart D ;
c) Powered Sailplanes, excluding Touring Motor Gliders, shall be operated and equipped in compliance with the requirements applicable to sailplanes.
d) Mixed Balloons shall be operated in accordance with the requirements for hot - air balloons.

NCO. GEN. 103. Introductory Flights

Introductory flights referred to in Article 6 (5)(c) of this Regulation when conducted in accordance with this Annex, shall :
a) Start and end at the same aerodrome or operating site, except for balloons and sailplanes ;
b) Be operated under VFR by day ;
c) Be overseen by a nominated person responsible for their safety ; *and*
d) comply with any other conditions stipulated by the GDCA of RA.

NCO. GEN. 105. 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, passengers and cargo on board during aircraft operations as referred to in 1.c of Annex IV to Regulation (EC) N^{o} 216 / 2008 ;
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 as referred to in 1.b of Annex IV to Regulation (EC) N^{o} 216 / 2008 ;
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) N^{o} 216 / 2008 are complied with, as follows :
   (i) the aircraft is airworthy ;
   (ii) the aircraft is duly registered ;
   (iii) 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 provided for in NCO.IDE.A.105, NCO.IDE.H.105, NCO.IDE.S.105 or NCO.IDE.B.105 ;
   (iv) the mass of the aircraft and, except in the case of balloons, the centre of gravity location are such that the flight can be conducted within limits prescribed in the airworthiness documentation ;
   (v) all equipment, baggage and cargo are properly loaded and secured and an emergency evacuation remains possible ;
   (vi) the aircraft operating limitations as specified in the Aircraft Flight Manual (AFM) will not be exceeded at any time during the flight ; *and*
   (vii) any navigational database required for PBN is suitable and current.
5) not commencing a flight if he / she 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 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 Minimum Equipment List (MEL), as applicable ; *and*
8) recording utilization 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.

b) The Pilot-in-Command shall ensure that during critical phases of flight or whenever deemed necessary in the interest of safety, all crew members are seated at their assigned stations and do not perform any activities other than those required for the safe operation of the aircraft ;

c) The Pilot-in-Command shall have the authority to refuse carriage of or disembark any person, baggage or cargo that may represent a potential hazard to the safety of the aircraft or its occupants ;

d) 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 ;

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) N° 216 / 2008. In such cases he / she may deviate from rules, operational procedures and methods in the interest of safety ;

f) During flight, the Pilot-in-Command shall :

1) except for balloons, keep his / her safety belt fastened while at his / her station ; *and*

2) remain at the controls of the aircraft at all times except if another pilot is taking the controls.

g) The Pilot-in-Command shall submit a report of an act of unlawful interference without delay to the GDCA and shall inform the designated local authority ;

h) 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.

NCO. GEN. 106. Pilot-in-Command Responsibilities and Authority — Balloons

The Pilot-in-Command of a balloon shall in addition to NCO. GEN. 105 :

a) Be responsible for the pre-flight briefing of those persons assisting in the inflation and deflation of the envelope ;

b) Ensure that no person is smoking on board or within the direct vicinity of the balloon ; *and*

c) Esure that persons assisting in the inflation and deflation of the envelope wear appropriate protective clothing.

NCO. GEN. 110. Compliance with Laws, Regulations and Procedure

a) The Pilot-in-Command shall comply with the laws, regulations and procedures of those States where operations are conducted ;

b) The Pilot-in-Command shall be familiar with the laws, regulations and procedures, pertinent to the performance of his / her duties, prescribed for the areas to be traversed, the aerodromes or operating sites to be used and the related air navigation facilities as referred to in 1.a of Annex IV to Regulation (EC) N° 216 / 2008.

NCO. GEN. 115. Taxiing of Aeroplanes

An aeroplane shall only be 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 ;

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.

NCO. GEN. 120. Rotor Engagement — Helicopters

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

NCO. GEN. 125. Portable Electronic Devices

The Pilot-in-Command 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.

NCO. GEN. 130. Information on Emergency and Survival Equipment Carried

Except for aircraft Taking-off and landing at the same aerodrome / operating site, 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.

NCO. GEN. 135. 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 :

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) the list of specific approvals, if applicable ;
6) the aircraft radio licence, if applicable ;
7) the third party liability insurance certificate(s) ;
8) the journey log, or equivalent, for the aircraft ;
9) details of the filed ATS flight plan, if applicable ;
10) 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 ;
11) procedures and visual signals information for use by intercepting and intercepted aircraft ;
12) the MEL or CDL, if applicable ; *and*
13) any other documentation that may be pertinent to the flight or is required by the States concerned with the flight.

b) Notwithstanding *(a),* on flights :

1) intending to Take - off and land at the same aerodrome / operating site ; *or*
2) remaining within a distance or area determined by the GDCA, the documents and information in *(a)(2) to (a)(8)* may be retained at the aerodrome or operating site.

c) Notwithstanding (a), on flights with balloons or sailplanes, excluding touring motor gliders (TMGs), the documents and information in *(a)(2) to (a)(8) and (a)(11) to (a)(13)* may be carried in the retrieve vehicle ;

d) The Pilot-in-Command shall make available within a reasonable time of being requested to do so by the GDCA, the documentation required to be carried on board.

NCO. GEN. 140. 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 supplements and any other addenda or corrigenda ;

b) Dangerous Goods shall only be transported by the operator approved in accordance with Annex V Part - SPA, Subpart G, to Regulation (EU) N^{o} 965 / 2012 except when :

1) they are not subject to the Technical Instructions in accordance with Part 1 of those Instructions ; *or*

2) they are carried by passengers or the Pilot-in-Command, or are in baggage, in accordance with Part 8 of the Technical Instructions ;

3) they are carried by operators of ELA 2 aircraft.

c) The Pilot-in-Command shall take all reasonable measures to prevent dangerous goods from being carried on board inadvertently ;

d) The Pilot-in-Command shall, in accordance with the Technical Instructions, report without delay to the GDCA and the appropriate authority of the State of occurrence in the event of any dangerous goods accidents or incidents ;

e) The Pilot-in-Command shall ensure that passengers are provided with information about dangerous goods in accordance with the Technical Instructions ;

f) Reasonable quantities of articles and substances that would otherwise be classified as dangerous goods and that are used to facilitate flight safety, where carriage aboard the aircraft is advisable to ensure their timely availability for operational purposes, shall be considered authorized under paragraph 1; 2. 2. 1 (a) of the Technical Instructions. This is regardless of whether or not such articles and substances are required to be carried or intended to be used in connection with a particular flight.

The packing and loading on board of the above-mentioned articles and substances shall be performed, under the responsibility of the PIC, in such a way as to minimize the risks posed to crew members, passengers, cargo or the aircraft during aircraft operations.

NCO. GEN. 145. Immediate Reaction to a Safety Problem

The operator shall implement :

a) Any safety measures mandated by the GDCA in accordance with ARO.GEN.135(c) ; *and*

b) Any relevant mandatory safety information issued by the EASA, including airworthiness directives.

NCO. GEN. 150. Journey Log

Particulars of the aircraft, its crew and each journey shall be retained for each flight, or series of flights, in the form of a journey log, or equivalent.

NCO. GEN. 155. Minimum Equipment List

a) An MEL may be established taking into account the following :

1) the document shall provide for the operation of the aircraft, under specified conditions, with particular instruments, items of equipment or functions inoperative at the commencement of the flight ;

2) the document shall be prepared for each individual aircraft, taking account of the operator's relevant operational and maintenance conditions ; *and*

3) the MEL shall be based on the relevant Master Minimum Equipment List (MMEL), as defined in the data established in accordance with CR (EU) N^{o} 748 / 2012, and shall not be less restrictive than the MMEL.

b) The MEL and any amendment thereto shall be notified to the GDCA of RA.

SUBPART B. OPERATIONAL PROCEDURES

NCO. OP. 100. Use of Aerodromes and Operating Sites

The Pilot-in-Command shall only use aerodromes and operating sites that are adequate for the type of aircraft and operation concerned.

NCO. OP. 105. Specification of Isolated Aerodromes — Aeroplanes

For the selection of alternate aerodromes and the fuel policy, the Pilot-in-Command 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.

NCO. OP. 110. Aerodrome Operating Minima — Aeroplanes and Helicopters

a) For Instrument Flight Rules (IFR) flights, the Pilot-in-Command shall select and use aerodrome operating minima for each departure, destination and alternate aerodrome. 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 GDCA in accordance with Annex V Part - SPA, Subpart E to CR (EU) N^{o} 965 / 2012.

b) When selecting the aerodrome operating minima, the Pilot-in-Command shall take the following into account :

1) the type, performance and handling characteristics of the aircraft ;

2) his / her competence and experience ;

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 ;

6) the obstacles in the approach, the missed approach and the climb - out areas necessary 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 pilot is qualified appropriately.

NCO. OP. 111. 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. **System Minima**

Facility	Lowest DH / MDH (ft)
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**
GNSS / Baro - vertical Navigation (VNAV) (LNAV / VNAV)	**250**
Localizer (LOC) with or without 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**

NCO. OP. 112. 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. MDH and Minimum Visibility for Circling vs. Aeroplane Category

	Aeroplane Category			
	A	**B**	**C**	**D**
MDH (ft)	400	500	600	700
Minimum Meteorological Visibility (m)	1 500	1 600	2 400	3 600

NCO. OP. 113. Aerodrome Operating Minima — Onshore Circling Operations with Helicopters

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.

NCO. OP. 115. 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.

NCO. OP. 116. Performance - based Navigation - Aeroplanes and Helicopters

The Pilot-in-Command 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.

NCO. OP. 120. Noise Abatement Procedures — Aeroplanes, Helicopters and Powered Sailplanes

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

NCO. OP. 121. Noise Abatement Procedures — Balloons

The Pilot-in-Command shall take into account operating procedures to minimize the effect of heating - system noise while ensuring that safety has priority over noise abatement.

NCO. OP. 125. 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, taking-off and landing at the same aerodrome / landing site and always remaining in sight of that aerodrome / landing site, to fly the intended route and thereafter for at least 10 minutes at normal cruising altitude ;

(ii) by day, to fly to the aerodrome of intended landing and thereafter to fly for at least 30 minutes at normal cruising altitude ; *or*

(iii) 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 to provide 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 pressurization 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.

NCO. OP. 126. 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, to fly to the aerodrome / operating site of intended landing and thereafter to fly for at least 20 minutes at best - range - speed ; *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 holding 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*

(B) to fly for 30 minutes at 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 to provide 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 pressurization or 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.

NCO. OP. 127. Fuel and Ballast Supply and Planning — Balloons

a) The Pilot-in-Command shall only commence a flight if the reserve fuel, or ballast is sufficient for 30 minutes of flight ;

b) Fuel, or ballast supply calculations shall be based upon at least the following operating conditions under which the flight is to be conducted :

1) data provided by the balloon manufacturer ;

2) anticipated masses ;

3) expected meteorological conditions ; *and*

4) air navigation services provider procedures and restrictions.

NCO. OP. 130. Passenger Briefing

The Pilot-in-Command shall ensure that before or, where appropriate, during the flight, passengers are given a briefing on emergency equipment and procedures.

NCO. OP. 135. Flight Preparation

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.

NCO. OP. 140. 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 :

(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.

NCO. OP. 141. Destination Alternate Aerodromes — Helicopters

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 ; *and*

3) a Point of No Return (PNR) is determined in case of an offshore destination.

NCC. OP. 142. 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.

NCO. OP. 145. Refueling with Passengers Embarking, on Board or Disembarking

a) The aircraft shall not be refueled with Aviation Gasoline (AVGAS) or Wide - Cut Type fuel or a mixture of these types of fuel, when passengers are embarking, on board or disembarking ;
b) For all other types of fuel, the aircraft shall not be refueled when passengers are embarking, on board or disembarking, unless it is attended by the Pilot-in-Command or other qualified personnel ready to initiate and direct an evacuation of the aircraft by the most practical and expeditious means available.

NCO. OP. 150. Carriage of Passengers

Except for balloons, the Pilot-in-Command shall ensure that, prior to and during taxiing, take-off and landing, and whenever deemed necessary in the interest of safety, each passenger on board occupies a seat or berth and has his / her safety belt or restraint device properly secured.

NCO. OP. 155. Smoking on Board — Aeroplanes and Helicopters

The Pilot-in-Command shall not allow smoking on board :
a) whenever considered necessary in the interest of safety ; *and*
b) during refueling of the aircraft.

NCO. OP. 156. Smoking on Board — Sailplanes and Balloons

No person shall be allowed to smoke on board a sailplane or balloon.

NCO. OP. 160. 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.

NCO. OP. 165. Ice and other Contaminants — Ground Procedures

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.

NCO. OP. 170. Ice 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 CR (EC) N^{o} 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.

NCO. OP. 175. 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.

NCO. OP. 176. Take - off Conditions — Balloons

Before commencing Take - off, the Pilot-in-Command of a balloon shall be satisfied that, according to the information available, the weather at the operating site or aerodrome would not prevent a safe Take - off and departure.

NCO. OP. 180. Simulated Situations in Flight

a) The Pilot-in-Command shall, when carrying passengers or cargo, not simulate :

1) situations that require the application of abnormal or emergency procedures ; *or*

2) flight in Instrument Meteorological Conditions (IMC).

b) Notwithstanding *(a)*, when training flights are conducted by an Approved Training Organization, such situations may be simulated with student pilots on - board.

NCO. OP. 185. In - flight Fuel Management

The Pilot-in-Command shall check at regular intervals that the amount of usable fuel or, for balloons, ballast remaining in flight is not less than the fuel or ballast required to proceed to a weather - permissible aerodrome or operating site and the planned reserve fuel as required by NCO.OP.125, NCO.OP.126 or NCO.OP.127.

NCO. OP. 190. Use of Supplemental Oxygen

a) The Pilot-in-Command shall ensure that all flight crew members engaged in performing duties essential to the safe operation of an aircraft in flight use supplemental oxygen continuously whenever he / she determines that at the altitude of the intended flight the lack of oxygen might result in impairment of the faculties of crew members, and shall ensure that supplemental oxygen is available to passengers when lack of oxygen might harmfully affect passengers ;

b) In any other case when the PIC cannot determine how the lack of oxygen might affect all occupants on board, he / she shall ensure that :

1) all crew members engaged in performing duties essential to the safe operation of an aircraft in flight use supplemental oxygen for any period in excess of 30 minutes when the pressure altitude in the passenger compartment will be between 10 000 ft and 13 000 ft ; *and*

2) all occupants use supplemental oxygen for any period that the pressure altitude in the passenger compartment will be above 13 000 ft.

NCO. OP. 195. Ground Proximity Detection

When undue proximity to the ground is detected by the Pilot-in-Command or by a ground proximity warning system, the Pilot-in-Command shall take corrective action immediately in order to establish safe flight conditions.

NCO. OP. 200. Airborne Collision Avoidance System (ACAS II)

When ACAS II is used, operational procedures and training shall be in accordance with Regulation (EU) N^{o} 1332 / 2011.

NCO. OP. 205. Approach and Landing Conditions — A & H

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 or FATO intended to be used would not prevent a safe approach, landing or missed approach.

NCO. OP. 210. Commencement and Continuation of Approach — A & H

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 ;
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.

NCO. OP. 215. Operational Limitations — Hot - air Balloons

a) A Hot - air Balloon shall not land during night, except in emergency ;
b) A Hot - air Balloon may Take - off during night, provided sufficient fuel is carried for a landing during day.

NCO. OP. 220. Airborne Collision Avoidance System (ACAS II)

When ACAS II is used, PIC shall apply the appropriate operational procedures and be adequately trained.

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SUBPART C. AIRCRAFT PERFORMANCE and OPERATING LIMITATIONS

NCO. POL. 100. Operating Limitations — All Aircraft

a) During any phase of operation, the loading, the mass and, except for balloons, the Centre of Gravity (CG) position of the aircraft shall comply with an y limitation specified in the AFM, or equivalent document ;

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.

NCO. POL. 105. Weighing

a) The operator shall ensure that the mass and, except for balloons, the CG of the aircraft have been established by actual weighing prior to initial entry into service. 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) The weighing shall be accomplished :

1) for aeroplanes and helicopters, by the manufacturer of the aircraft or by an approved maintenance organization ; *and*

2) for sailplanes and balloons, by the manufacturer of the aircraft or in accordance with CR (EC) N^{o} 2042 / 2003, as applicable.

NCO. POL. 110. 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.

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SUBPART D. INSTRUMENTS, DATA & EQUIPMENT

SECTION 1. Aeroplanes

NCO. 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 NCO. IDE. A. 190 ;
3) used to comply with NCO. IDE. A. 195 ; *or*
4) installed in the aeroplane.

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

1) spare fuses ;
2) independent portable lights ;
3) an accurate time piece ;
4) First - aid Kit ;
5) survival and signaling equipment ;
6) sea anchor and equipment for mooring ; *and*
7) child restraint device.

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 :

1) the information provided by these instruments or equipment shall not be used by the flight crew to comply with Annex I to CR (EC) N^{o} 216 / 2008 or NCO. IDE. A. 190 and NCO. IDE. A. 195 ; *and*
2) the instruments and equipment 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) All required emergency equipment shall be easily accessible for immediate use.

NCO. IDE. A. 105. Minimum Equipment for Flight

A flight shall not be commenced when any of the aeroplane instruments, items of equipment or functions required for the intended flight are inoperative or missing, unless :

a) the aeroplane is operated in accordance with the MEL, if established ; *or*

b) the aeroplane is subject to a permit to fly issued in accordance with the applicable airworthiness requirements.

NCO. 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.

NCO. 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 ;

e) lighting supplied from the aeroplane's electrical system to provide illumination in all passenger 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.

NCO. IDE. A. 120. Operations under VFR — Flight and Navigational Instruments & 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) pressure altitude ;

4) indicated airspeed ; *and*

5) Mach number, whenever speed limitations are expressed in terms of Mach number.

b) Aeroplanes operated under Visual Meteorological Conditions (VMC) at night, or in conditions where the aeroplane cannot be maintained in a desired flight path without reference to one or more additional instruments, 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) stabilized heading ; *and*

2) a means of indicating when the supply of power to the gyroscopic instruments is not adequate.

c) 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.

NCO. IDE. A. 125. Operations under IFR — Flight and Navigational Instruments & 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) pressure altitude ;
4) indicated airspeed ;
5) vertical speed ;
6) turn and slip ;
7) attitude ;
8) stabilized 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 ; *and*

c) A means of preventing malfunction of the airspeed indicating system required in *(a)(4)* due to condensation or icing.

NCO. IDE. A. 130. Terrain Awareness Warning System (TAWS)

Turbine - powered aeroplanes certified for a *maximum passenger seating configuration of more than **9** (nine)* shall be equipped with a TAWS that meets the requirements for :

a) 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 ;

b) 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.

NCO. IDE. A. 135. Flight 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.

NCO. IDE. A. 140. Seats, Seat Safety Belts, Restraint Systems & Child Restraint Devices

a) Aeroplanes shall be equipped with :

1) a seat or berth for each person on board who is aged 24 months or more ;
2) a seat belt on each passenger seat and restraining belts for each berth ;
3) a child restraint device (CRD) for each person on board younger than 24 months ; *and*
4) 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.

NCO. IDE. A. 145. First-aid Kit

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.

NCO. IDE. A. 150. 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 passenger compartments is above 10 000 ft shall carry enough breathing oxygen to supply :

1) all crew members and :

(i) 100 % of the passengers for any period when the cabin pressure altitude exceeds 15 000 ft, but in no case less than 10 minutes' supply ;

(ii) at least 30 % of the passengers, for any period when, in the event of loss of pressurization and taking into account the circumstances of the flight, the pressure altitude in the passenger compartment will be between 14 000 ft and 15 000 ft ; *and*

(iii) at least 10 % of the passengers for any period in excess of 30 minutes when the pressure altitude in the passenger compartment will be between 10 000 ft and 14 000 ft ; *and*

2) all the occupants of the passenger compartment 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) Pressurized aeroplanes operated at flight altitudes above 25 000 ft shall, in addition, be equipped with a device to provide a warning indication to the flight crew of any loss of pressurization.

NCO. IDE. A. 155. Supplemental Oxygen — Non-pressurized Aeroplanes

Non - pressurized aeroplanes operated when an oxygen supply is required in accordance with NCO.OP.190 shall be equipped with oxygen storage and dispensing apparatus capable of storing and dispensing the required oxygen supplies.

NCO. IDE. A. 160. Hand Fire Extinguishers

a) Aeroplanes, except Touring Motor Gliders (TMG) and ELA 1 aeroplanes, shall be equipped with at least one hand fire extinguisher :

1) in the flight crew compartment ; *and*

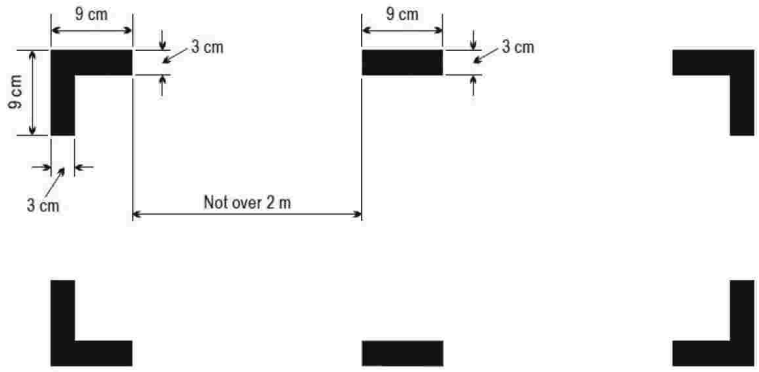
2) in each passenger compartment that is separate from the flight crew compartment, except if the compartment is readily accessible to the flight crew.

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 minimize the hazard of toxic gas concentration in compartments occupied by persons.

NCO. IDE. A. 165. 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**



NCO. IDE. A. 170. Emergency Locator Transmitter (ELT)

a) Aeroplanes shall be equipped with :

1) an ELT of any type, when first issued with an individual CofA on or before 1 July 2008 ;

2) an automatic ELT, 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 passenger, when certified for a maximum passenger seating configuration of 6 (six) or less.

b) ELTs of any type and PLBs shall be capable of transmitting simultaneously on 121,5 MHz and 406 MHz.

NCO. IDE. A. 175. Flight Over Water

a) The following aeroplanes shall be equipped with a life-jacket for each person on board, or equivalent individual floatation device for each person on board younger than 24 months, that shall be worn or stowed in a position that is readily accessible from the seat or berth of the person for whose use it is provided :

1) single - engined 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) Seaplanes operated over water shall be equipped with :

1) one anchor ;

2) one sea anchor (drogue), when necessary to assist in manoeuvring ; *and*

3) equipment for making the sound signals, as prescribed in the International Regulations for Preventing Collisions at Sea, where applicable.

c) 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.

NCO. IDE. A. 180. Survival Equipment

Aeroplanes operated over areas in which search and rescue would be especially difficult shall be equipped with such signaling devices and life - saving equipment, including means of sustaining life, as may be appropriate to the area overflown.

NCO. IDE. A. 190. Radio Communication Equipment

a) Where required by the airspace being flown aeroplanes shall be equipped with radio communication equipment capable of conducting two - way communication with those aeronautical stations and on those frequencies to meet airspace requirements ;

b) Radio communication equipment, if required by *(a),* shall provide for communication on the aeronautical emergency frequency 121, 5 MHz ;

c) 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.

NCO. IDE. A. 195. Navigation Equipment

a) Aeroplanes operated over routes that cannot be navigated by reference to visual landmarks shall be equipped with any navigation equipment necessary to enable them to proceed in accordance with :

1) the ATS flight plan ; *if applicable ;* *and*

2) the applicable airspace requirements.

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.
d) For PBN operations the aircraft shall meet the airworthiness certification requirements for the appropriate navigation specification.

NCO. IDE. A. 200. Transponder

Where required by the airspace being flown, aeroplanes shall be equipped with a Secondary Surveillance Radar (SSR) Transponder with all the required capabilities.

NCO. IDE. A. 205. 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 PIC 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 CR (EU) N^{o} 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 Pilot - in - Command shall not use the affected data.

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SECTION 2. Helicopters

NCO. IDE. H. 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 NCO. IDE. H. 190 ;
3) used to comply with NCO. IDE. H. 195 ; *or*
4) installed in the helicopter.

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 signaling equipment ;
5) sea anchor and equipment for mooring ; *and*
6) child restraint device.

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 :

1) the information provided by these instruments or equipment shall not be used by the flight crew to comply with Annex I to CR (EC) N^{o} 216 / 2008 or NCO. IDE. H. 190 and NCO. IDE. H. 195 ; *and*
2) the instruments and equipment 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) All required emergency equipment shall be easily accessible for immediate use.

NCO. IDE. H. 105. 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 are inoperative or missing, unless :

a) the helicopter is operated in accordance with the MEL, if established ; *or*

b) the helicopter is subject to a permit to fly issued in accordance with the applicable airworthiness requirements.

NCO. IDE. H. 115. Operating 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 passenger 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.

NCO. IDE. H. 120. Operations under VFR — Flight and Navigational Instruments & 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) pressure altitude ;
4) indicated airspeed ; *and*
5) slip.
b) Helicopters operated under VMC at night, or when the visibility is less than 1 500 m, or in conditions where the helicopter cannot be maintained in a desired flight path without reference to one or more additional instruments, shall be, in addition to *(a)*, equipped with :
1) a means of measuring and displaying the following :
(i) attitude ;
(ii) vertical speed ; *and*
(iii) stabilized heading ; *and*
2) a means of indicating when the supply of power to the gyroscopic instruments is not adequate.
c) Helicopters operated when the visibility is less than 1 500 m, or in conditions where the helicopter 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.

NCO. IDE. H. 125. Operations under IFR — Flight and Navigational Instruments & Associated Equipment

Helicopters 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) pressure altitude ;
4) indicated airspeed ;
5) vertical speed ;
6) slip ;
7) attitude ;

8) stabilized heading ; *and*

9) outside air temperature ;

b) A means of indicating when the supply of power to the gyroscopic instruments is not adequate ;

c) A means of preventing malfunction of the airspeed indicating system required by *(a)(4)* due to condensation or icing ; *and*

d) An additional means of measuring and displaying attitude as a standby instrument.

NCO. IDE. H. 126. Additional Equipment for Single Pilot Operations under IFR

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

NCO. IDE. H. 135. 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.

NCO. IDE. H. 140. Seats, Seat Safety Belts, Restraint Systems & Child Restraint Devices

a) Helicopters shall be equipped with :

1) a seat or berth for each person on board who is aged 24 months or more ;

2) a seat belt on each passenger seat and restraining belts for each berth ;

3) for helicopters first issued with an individual CofA after 31 December 2012, a seat belt with an upper torso restraint system for each passenger who is aged 24 months or more ;

4) a child restraint device for each person on board younger than 24 months ; *and*

5) 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.

NCO. IDE. H. 145. 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.

NCO. IDE. H. 155. Supplemental Oxygen — Non - pressurized Helicopters

Non - pressurized helicopters operated when an oxygen supply is required in accordance with NCO.OP.190 shall be equipped with oxygen storage and dispensing apparatus capable of storing and dispensing the required oxygen supplies.

NCO. IDE. H. 160. Hand Fire Extinguishers

a) Helicopters, except ELA 2 helicopters, shall be equipped with at least one hand fire extinguisher :

1) in the flight crew compartment ; *and*

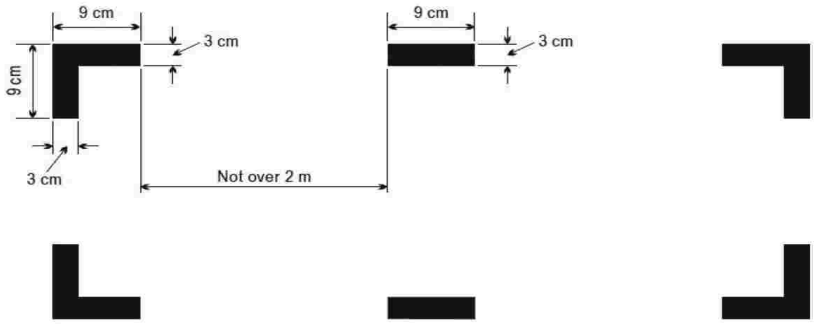
2) in each passenger compartment that is separate from the flight crew compartment, except if the compartment is readily accessible to the flight crew.

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 minimize the hazard of toxic gas concentration in compartments occupied by persons.

NCO. IDE. H. 165. 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**



NCO. IDE. H. 170. Emergency Locator Transmitter (ELT)

a) Helicopters certified for a maximum passenger seating configuration *above* ***6*** *(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 passenger seating configuration *of* ***6*** *(six) or less* shall be equipped with an ELT (S) or a Personal Locator Beacon (PLB), carried by a crew member or a passenger ;

c) ELTs of any type and PLBs shall be capable of transmitting simultaneously on 121, 5 MHz and 406 MHz.

NCO. IDE. H. 175. Flight Over Water

a) Helicopters shall be equipped with a life - jacket for each person on board or equivalent individual flotation device for each person on board younger than 24 months, which shall be worn or stowed in a position that is readily accessible from the seat or berth of the person for whose use it is provided, when :

1) flying over water beyond autorotational distance from land where in case of the critical engine failure, the helicopter is not able to sustain level flight ; *or*

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 or equivalent individual flotation device 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.

NCO. IDE. H. 180. Survival Equipment

Helicopters, operated over areas in which search and rescue would be especially difficult, shall be equipped with such signaling devices and life - saving equipment, including means of sustaining life, as may be appropriate to the area overflown.

NCO. IDE. H. 185. All Helicopters on Flights Over Water — Ditching

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.

NCO. IDE. H. 190. Radio Communication Equipment

a) Where required by the airspace being flown helicopters shall be equipped with radio communication equipment capable of conducting two - way communication with those aeronautical stations and on those frequencies to meet airspace requirements ;

b) Radio communication equipment, if required by *(a)*, shall provide for communication on the aeronautical emergency frequency 121, 5 MHz ;

c) 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 ;

d) When a radio communication system is required, and in addition to the flight crew interphone system required in NCO. IDE. H. 135, helicopters shall be equipped with a transmit button on the flight controls for each required pilot and / or crew member at his / her working station.

NCO. IDE. H. 195. Navigation Equipment

a) Helicopters operated over routes that cannot be navigated by reference to visual landmarks 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 ;

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 is intended to land in IMC and for any designated alternate aerodromes.

d) For PBN operations the aircraft shall meet the airworthiness certification requirements for the appropriate navigation specification.

NCO. IDE. H. 200. Transponder

Where required by the airspace being flown, helicopters shall be equipped with a Secondary Surveillance Radar (SSR) Transponder with all the required capabilities.

NCO. IDE. H. 205. 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 CR (EU) N^{o} 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 Pilot - in - Command shall not use the affected data.

SECTION 3. Sailplanes

NCO. IDE. S. 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 NCO. IDE. S. 145 ;
3) used to comply with NCO. IDE. S. 150 ; *or*
4) installed in the sailplane.

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) survival and signaling equipment.

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

1) the information provided by these instruments or, equipment shall not be used by the flight crew to comply with Annex I to CR (EC) N^{o} 216 / 2008 ; *and*
2) the instruments and equipment shall not affect the airworthiness of the sailplane, 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) All required emergency equipment shall be easily accessible for immediate use.

NCO. IDE. S. 105. Minimum Equipment for Flight

A flight shall not be commenced when any of the sailplane instruments, items of equipment or functions required for the intended flight are inoperative or missing, unless :

a) the sailplane is operated in accordance with the MEL, if established ; *or*

b) the sailplane is subject to a permit to fly issued in accordance with the applicable airworthiness requirements.

NCO. IDE. S. 115. 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 :

1) in the case of powered sailplanes, magnetic heading ;
2) time in hours, minutes and seconds ;
3) pressure altitude ; *and*
4) indicated airspeed.

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

1) vertical speed ;
2) attitude or turn and slip ; *and*
3) magnetic heading.

NCO. IDE. S. 120. Cloud Flying — Flight and Navigational Instruments

Sailplanes performing cloud flying shall be equipped with a means of measuring and displaying the following :

a) magnetic heading ;
b) time in hours, minutes and seconds ;
c) pressure altitude ;
d) indicated airspeed ;
e) vertical speed ; *and*
f) attitude or turn and slip.

NCO. IDE. S. 125. Seats and Restraint Systems

a) Sailplanes shall be equipped with :
(1) a seat for each person on board; and
(2) a seat belt with upper torso restraint system for each seat according to the AFM.
b) A seat belt with upper torso restraint system shall have a single point release.

NCO. IDE. S. 130. Supplemental Oxygen

Sailplanes operated when an oxygen supply is required in accordance with NCO.OP.190 shall be equipped with oxygen storage and dispensing apparatus capable of storing and dispensing the required oxygen supplies.

NCO. IDE. S. 135. Flight Over Water

The Pilot-in-Command of a sailplane operated over water shall determine the risks to survival of the occupants of the sailplane in the event of a ditching, based on which he / she shall determine the carriage of :

a) A life - jacket, or equivalent individual floatation device, for each person on board, that shall be worn or stowed in a position that is readily accessible from the seat of the person for whose use it is provided ;

b) An Emergency Locator Transmitter (ELT) or a Personal Locator Beacon (PLB), carried by a crew member or a passenger, capable of transmitting simultaneously on 121, 5 MHz and 406 MHz ; *and*

c) Equipment for making distress signals, when operating a flight :

1) over water beyond gliding distance from land ; *or*
2) where the take-off or approach path is so disposed over water that in the event of a mishap there would be a likelihood of ditching.

NCO. IDE. S. 140. Survival Equipment

Sailplanes operated over areas in which search and rescue would be especially difficult shall be equipped with such signaling devices and life - saving equipment as appropriate to the area overflown.

NCO. IDE. S. 145. Radio Communication Equipment

a) Where required by the airspace being flown sailplanes shall be equipped with radio communication equipment capable of conducting two - way communication with those aeronautical stations or those frequencies to meet airspace requirements ;
b) Radio communication equipment, if required by *(a)*, shall provide for communication on the aeronautical emergency frequency 121, 5 MHz.

NCO. IDE. S. 150. Navigation Equipment

Sailplanes shall be equipped with any navigation equipment necessary to proceed in accordance with :
a) the ATS flight plan if applicable ; *and*
b) the applicable airspace requirements.

NCO. IDE. S. 155. Transponder

When required by the airspace being flown, sailplanes shall be equipped with a Secondary Surveillance Radar (SSR) Transponder with all the required capabilities.

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SECTION 4. Balloons

NCO. IDE. B. 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 determine the flight path ;

2) used to comply with NCO. IDE. B. 145 ; *or*

3) installed in the balloon.

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 signaling equipment.

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

1) the information provided by these instruments or equipment shall not be used by the flight crew to comply with Annex I to CR (EC) N^{o} 216 / 2008 ; *and*

2) the instruments and equipment shall not affect the airworthiness of the balloon, 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 assigned ;

e) All required emergency equipment shall be easily accessible for immediate use.

NCO. IDE. B. 105. Minimum Equipment for Flight

A flight shall not be commenced when any of the balloon instruments, items of equipment or functions required for the intended flight are inoperative or missing, unless :

a) the balloon is operated in accordance with the MEL, if established ; *or*

b) the balloon is subject to a permit to fly issued in accordance with the applicable airworthiness requirements.

NCO. IDE. B. 110. Operating Lights

Balloons operated at night shall be equipped with :

a) anti - collision lights ;

b) a means to provide adequate illumination for all instruments and equipment essential to the safe operation of the balloon ; *and*

c) an independent portable light.

NCO. IDE. B. 115. Operations under VFR — Flight and Navigational Instruments & Associated Equipment

Balloons operated under VFR by day shall be equipped with the following :

a) A means of displaying drift direction ; *and*

b) A means of measuring and displaying :

1) time in hours, minutes and seconds ;

2) vertical speed, if required by the AFM ; *and*

3) pressure altitude, if required by the AFM, if required by airspace requirements or when altitude needs to be controlled for the use of oxygen.

NCO. IDE. B. 120. First - aid Kit

a) Balloons 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.

NCO. IDE. B. 121. Supplemental Oxygen

Balloons operated at pressure altitudes above 10 000 ft shall be equipped with an oxygen storage and dispensing apparatus carrying enough breathing oxygen to supply :

a) crew members for any period in excess of 30 minutes when the pressure altitude will be between 10 000 ft and 13 000 ft ; *and*

b) all crew members and passengers for any period that the pressure altitude will be above 13 000 ft.

NCO. IDE. B. 125. Hand Fire Extinguishers

Hot air - balloons shall be equipped with at least one hand fire extinguisher, if required by the applicable certification specifications.

NCO. IDE. B. 130. Flight Over Water

The Pilot-in-Command of a balloon operated over water shall determine the risks to survival of the occupants of the balloon in the event of a ditching, based on which he / she shall determine the carriage of :

a) A life - jacket for each person on board, or equivalent individual floatation device for each person on board younger than 24 months, that shall be worn or stowed in a position that is readily accessible from the station of the person for whose use it is provided ;

b) When carrying more than 6 persons, an Emergency Locator Transmitter (ELT) capable of transmitting simultaneously on 121, 5 MHz and 406 MHz ;

c) When carrying up to 6 persons, an ELT or a Personal Locator Beacon (PLB), carried by a crew member or a passenger, capable of transmitting simultaneously on 121, 5 MHz and 406 MHz ; *and*

d) Equipment for making the distress signals.

NCO. IDE. B. 135. Survival Equipment

Balloons operated over areas in which search and rescue would be especially difficult shall be equipped with such signaling devices and life - saving equipment as appropriate to the area overflown.

NCO. IDE. B. 140. Miscellaneous Equipment

a) Balloons shall be equipped with protective gloves for each crew member ;

b) Hot - air balloons shall be equipped with :

1) an alternative source of ignition ;

2) a means of measuring and indicating fuel quantity ;

3) a fire blanket or fire resistant cover ; *and*

4) a drop line of at least 25 metres (m) in length.

c) Gas balloons shall be equipped with :

1) a knife ; *and*

2) a drop line of at least 20 m in length made of natural fibre or electrostatic conductive material.

NCO. IDE. B. 145. Radio Communication Equipment

a) Where required by the airspace being flown, balloons shall be equipped with radio communication equipment capable of conducting two - way communication with those aeronautical stations or those frequencies to meet airspace requirements ;

b) Radio communication equipment, if required by *(a),* shall provide for communication on the aeronautical emergency frequency 121, 5 MHz.

NCO. IDE. B. 150. Transponder

When required by the airspace being flown, balloons shall be equipped with a Secondary Surveillance Radar (SSR) Transponder with all the required capabilities.

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SUBPART E. SPECIFIC REQUIREMENTS

SECTION 1. General

NCO. SPEC. 100. Scope

This subpart establishes specific requirements to be followed by a Pilot-in-Command conducting Non - commercial Specialized Operations with other - than complex motor - powered aircraft.

NCO. SPEC. 105. Checklist

a) Before commencing a specialized operation, the Pilot-in-Command 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) A specialized operation shall be performed in accordance with a checklist. Based on the risk assessment, the Pilot-in-Command shall establish such checklist appropriate to the specialized activity and aircraft used, taking account of any section of this subpart ;
c) The checklist that is relevant to the duties of the Pilot-in-Command, crew members and task specialists shall be readily accessible on each flight ;
d) The checklist shall be regularly reviewed and updated, as appropriate.

NCO. SPEC. 110. Pilot - in - Command Responsibilities and Authority

Whenever crew members or task specialists are involved in the operation, the Pilot-in-Command shall :
a) Ensure compliance of crew members and task specialists with NCO. SPEC. 115 and NCO. SPEC. 120. ;
b) Not commence a flight if any 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 ;
c) Not continue a flight beyond the nearest weather - permissible aerodrome or operating site when any crew member or task specialist's capacity to perform duties is significantly reduced from causes such as fatigue, sickness or lack of oxygen ;
d) Ensure that crew members and task specialists comply with the laws, regulations and procedures of those States where operations are conducted ;
e) Ensure that all crew members and task specialists are able to communicate with each other in a common language ; *and*
f) ensure that task specialists and crew members use supplemental oxygen continuously whenever he / she determines that at the altitude of the intended flight the lack of oxygen might result in impairment of the faculties of crew members or harmfully affect task specialists.

If the Pilot-in-Command cannot determine how the lack of oxygen might affect the occupants on board, he / she 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.

NCO. SPEC. 115. Crew Responsibilities

a) The crew member shall be responsible for the proper execution of his / her duties. Crew duties shall be specified in the checklist ;

b) Except for balloons, during critical phases of 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 checklist ;

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 CR (EC) N° 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 CR (EC) N° 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 ARM - AIR OPS, 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.

NCO. SPEC. 120. Task 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 checklist ;

b) Except for balloons, during critical phases of 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 checklist ;

c) The task specialist shall ensure that he / she is restrained when carrying out specialized 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.

NCO. SPEC. 125. Safety Briefing

a) Before take - off, the Pilot-in-Command shall brief task specialists on :

1) emergency equipment and procedures ;

2) operational procedures associated with the specialized task before each flight or series of flights ;

b) The briefing referred to in (a)(2) may not be required if task specialists have been instructed on the operational procedures before the start of the operating season in that calendar year.

NCO. SPEC. 130. Minimum Obstacle Clearance Altitudes - IFR Flights

The Pilot-in-Command shall establish minimum flight altitudes for each flight providing the required terrain clearance for all route segments to be flown in IFR. The minimum flight altitudes shall not be lower than those published by the State overflown.

NCO. SPEC. 135. Fuel and Oil Supply - Aeroplanes

NCO.OP.125(a)(1)(i) does not apply to sailplane - towing, flying display, aerobatic flights or competition flights.

NCO. SPEC. 140. Fuel and Oil Supply — Helicopters

Notwithstanding NCO.OP.126(a)(1), the Pilot-in-Command of a helicopter may only commence a VFR flight by day remaining within 25 NM of the aerodrome / operating site of departure with reserve fuel of not less than 10 minutes at best - range - speed.

NCO. SPEC. 145. 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 :

a) situations that require the application of abnormal or emergency procedures ; *or*

b) flight in Instrument Meteorological Conditions (IMC).

NCO. SPEC. 150. Ground Proximity Detection

If installed, the Ground Proximity Warning System may be disabled during those specialized 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.

NCO. SPEC. 155. Airborne Collision Avoidance System (ACAS II)

Notwithstanding NCO.OP.200, the ACAS II may be disabled during those specialized tasks, which by their nature require the aircraft to be operated within a distance from each other below that which would trigger the ACAS.

NCO. SPEC. 160. Release of Dangerous Goods

The Pilot-in-Command 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.

NCO. SPEC. 165. Carriage and use of Weapons

a) The Pilot-in-Command shall ensure that, when weapons are carried on a flight for the purpose of a specialized 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.

NCO. SPEC. 170. 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 Pilot-in-Command shall have :
a) established operational procedures to minimize the consequences of an engine failure ; *and*
b) briefed all crew members and task specialists on board on the procedures to be carried out in the event of a forced landing.

NCO. SPEC. 175. 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.

b) The Pilot-in-Command shall have :
1) established operational procedures to minimize the consequences of an engine failure ; *and*
2) briefed all crew members and task specialists on board on the procedures to be carried out in the event of a forced landing.

c) The Pilot-in-Command 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.

SECTION 2. Helicopter External Sling Load Operations (HESLO)

NCO. SPEC. HESLO. 100. Checklist

The checklist for HESLO shall contain :

a) normal, abnormal and emergency procedures ;

b) relevant performance data ;

c) required equipment ;

d) any limitations ; *and*

e) responsibilities and duties of the Pilot-in-Command, and, if applicable, crew members and task specialists.

NCO. SPEC. HESLO. 105. Specific HESLO 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.

NCO. SPEC. HESLO. 110. Transportation of Dangerous Goods

The operator transporting Dangerous Goods to or from unmanned sites or remote locations shall apply to the GDCA and local authority for an exemption from the provisions of the Technical Instructions if they intend not to comply with the requirements of those Instructions.

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SECTION 3. Human External Cargo Operations (HEC)

NCO. SPEC. HEC. 100. Checklist

The checklist for HEC shall contain :

a) normal, abnormal and emergency procedures ;

b) relevant performance data ;

c) required equipment ;

d) any limitations ; *and*

e) responsibilities and duties of the Pilot-in-Command, and, if applicable, crew members and task specialists.

NCO. SPEC. HEC. 105. Specific 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.

b) The installation of all hoist and cargo hook equipment and any subsequent modifications shall have an airworthiness approval appropriate to the intended function.

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SECTION 4. Parachute Operations (PAR)

NCO. SPEC. PAR. 100. Checklist

The checklist for PAR shall contain :
a) normal, abnormal and emergency procedures ;
b) relevant performance data ;
c) required equipment ;
d) any limitations ; *and*
e) responsibilities and duties of the Pilot-in-Command, and, if applicable, crew members and task specialists.

NCO. SPEC. PAR. 105. Carriage of Crew Members and Task Specialists

The requirement laid down in NCO.SPEC.120 (c) shall not be applicable for task specialists performing parachute jumping.

NCO. SPEC. PAR. 110. Seats

Notwithstanding NCO.IDE.A.140 (a)(1) and NCO.IDE.H.140 (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.

NCO. SPEC. PAR. 115. Supplemental Oxygen

Notwithstanding NCO.SPEC.110 (f), 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 specialized task, whenever the cabin altitude :
a) exceeds 13 000 ft, for a period of not more than 6 minutes ; *or*
b) exceeds 15 000 ft, for a period of not more 3 minutes.

NCO. SPEC. PAR. 120. Release of Dangerous Goods

Notwithstanding NCO.SPEC.160, 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 train devices, provided these are manufactured for this purpose.

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SECTION 5. Aerobatic Flights (ABF)

NCO. SPEC. ABF. 100. Checklist

The checklist for ABF shall contain :

a) normal, abnormal and emergency procedures ;

b) relevant performance data ;

c) required equipment ;

d) any limitations ; *and*

e) responsibilities and duties of the Pilot-in-Command, and, if applicable, crew members and task specialists.

NCO. SPEC. ABF. 105. Documents and Information

The following documents and information listed in NCO.GEN.135 (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 ; *and*

c) procedures and visual signals information for use by intercepting and intercepted aircraft.

NCO. SPEC. ABF. 110. Equipment

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

a) First - aids Kit as laid down in NCO.IDE.A.145 and NCO.IDE.H.145 ;

b) Hand - fire extinguishers as laid down in NCO.IDE.A.160 and NCO.IDE.H.180 ; *and*

c) Emergency Locator Transmitters or Personal Locator Beacons as laid down in NCO. IDE. A. 170 and NCO. IDE. H. 170.

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