

**ANNEX V. PART - SPA**

**SPECIFIC APPROVALS**

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**SUBPART A. GENERAL REQUIREMENTS****SPA. GEN. 100. Competent Authority - GDCA of RA**

- a)** The GDCA for issuing a specific approval shall be :
- 1) for the Commercial Air Transport Operator the authority of the State of the Operator has its principal place of business ;
  - 2) for the Non - commercial Operator the authority of the State of the Operator is established or residing.
- b)** Notwithstanding *(a)(2)*, for the Non - commercial Operator using aircraft registered in a third country, the applicable requirements under this Annex for the approval of the following operations shall not apply if these approvals are issued by a third country State of Registry :
- 1) Performance - based Navigation (*PBN*) ;
  - 2) Minimum Operational Performance Specifications (*MNPS*) ;
  - 3) Reduced Vertical Separation Minima (*RVSM*) airspace.

**SPA. GEN. 105. Application for a Specific Approval**

- a)** The Operator applying for the initial issue of a specific approval shall provide to the GDCA the documentation required in the applicable Subpart, together with the following information :
- 1) the name, address and mailing address of the applicant ;
  - 2) a description of the intended operation.
- b)** The Operator shall provide the following evidence to the GDCA :
- 1) compliance with the requirements of the applicable Subpart ;
  - 2) that the relevant elements defined in the mandatory part of the operational suitability data established in accordance with CR - EU No 748 / 2012 are taken into account.
- c)** The Operator shall retain records relating to *(a)* and *(b)* at least for the duration of the operation requiring a specific approval, or, *if applicable*, in accordance with Annex III ( Part -ORO ).

**SPA. GEN. 110. Privileges of an operator holding a specific approval**

The scope of the activity that an Operator is approved to conduct shall be documented and specified :

- a)** For Operators holding an Air Operator Certificate (*AOC*) in the Operations Specifications to the AOC ;
- b)** For all other operators in the list of specific approvals.

**SPA. GEN. 115. Changes to a Specific Approval**

When the conditions of a specific approval are affected by changes, the Operator shall provide the relevant documentation to the GDCA and obtain prior approval for the operation.

**SPA. GEN. 120. Continued Validity of a Specific Approval**

Specific approvals shall be issued for an unlimited duration and shall remain valid subject to the Operator remaining in compliance with the requirements associated with the specific approval and taking into account the relevant elements defined in the mandatory part of the operational suitability data established in accordance with CR - EU No 748 / 2012.

## SUBPART B. PERFORMANCE - BASED NAVIGATION ( PBN ) OPERATIONS

### SPA. PBN. 100. PBN Operations

*a)* An approval is required for each of the following PBN specifications :

1 ) RNP AR APCH ;

*and*

2 ) RNP 0.3 for helicopter operation.

*b)* An approval for RNP AR APCH operations shall allow operations on public instrument approach procedures which meet the applicable ICAO procedure design criteria ;

*c)* A procedure-specific approval for RNP AR APCH or RNP 0.3 shall be required for private instrument approach procedures or any public instrument approach procedure that does not meet the applicable ICAO procedure design criteria, or where required by the Aeronautical Information Publication ( AIP ) or the Competent Authority.

### SPA. PBN. 105. PBN Operational Approval

To obtain a PBN specific approval from the GDCA of RA, the operator shall provide evidence that :

*a)* The relevant airworthiness approval, suitable for the intended PBN operation, 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 ;

*b)* A training program for the flight crew members and relevant personnel involved in the flight preparation has been established ;

*c)* A safety assessment has been carried out ;

*d)* Operating procedures have been established specifying :

1 ) the equipment to be carried, including its operating limitations and appropriate entries in the Minimum Equipment List ( MEL ) ;

2 ) flight crew composition, qualification and experience ;

3 ) normal, abnormal and contingency procedures ;

*and*

4 ) electronic navigation data management ;

*e)* A list of reportable events has been specified ;

*and*

*f)* A management RNP monitoring program has been established for RNP AR APCH operations, if applicable.

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**SUBPART C. OPERATIONS with SPECIFIED MINIMUM  
NAVIGATION PERFORMANCE ( MNPS )**

**SPA. MNPS. 100. MNPS Operations**

Aircraft shall only be operated in designated Minimum Navigation Performance Specifications (MNPS) airspace in accordance with regional supplementary procedures, where minimum navigation performance specifications are established, if the Operator has been granted an approval by the GDCA of RA to conduct such operations.

**SPA. MNPS. 105. MNPS Operational Approval**

To obtain an MNPS operational approval from the GDCA, the Operator shall provide evidence that :

- a*) the navigation equipment meets the required performance ;
- b*) navigation displays, indicators and controls are visible and operable by either pilot seated at his / her duty station ;
- c*) a training program for the flight crew members involved in these operations has been established ;
- d*) operating procedures have been established specifying :
  - 1) the equipment to be carried, including its operating limitations and appropriate entries in the MEL ;
  - 2) flight crew composition and experience requirements ;
  - 3) normal procedures ;
  - 4) contingency procedures including those specified by the authority responsible for the airspace concerned ;
  - 5) monitoring and incident reporting.

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**SUBPART D. OPERATIONS in AIRSPACE with REDUCED  
VERTICAL SEPARATION MINIMA ( RVSM )**

**SPA. RVSM. 100. RVSM Operations**

Aircraft shall only be operated in designated airspace where a Reduced Vertical Separation Minimum of *300 m (1 000 ft)* applies *between Flight Level (FL) 290 and FL 410*, inclusive, if the Operator has been granted an approval by the GDCA of RA to conduct such operations.

**SPA. RVSM. 105. RVSM Operational Approval**

To obtain an RVSM operational approval from the GDCA, the Operator shall provide evidence that :

- a)* the RVSM airworthiness approval has been obtained ;
- b)* procedures for monitoring and reporting height - keeping errors have been established ;
- c)* a training program for the flight crew members involved in these operations has been established ;
- d)* operating procedures have been established specifying :
  - 1 ) the equipment to be carried, including its operating limitations and appropriate entries in the MEL ;
  - 2 ) flight crew composition and experience requirements ;
  - 3 ) flight planning ;
  - 4 ) pre - flight procedures ;
  - 5 ) procedures prior to RVSM airspace entry ;
  - 6 ) in - flight procedures ;
  - 7 ) post - flight procedures ;
  - 8 ) incident reporting ;
  - 9 ) specific regional operating procedures.

**SPA. RVSM. 110. RVSM Equipment Requirements**

Aircraft used for operations in RVSM airspace shall be equipped with :

- a)* *two (2)* independent Altitude Measurement Systems ;
- b)* an Altitude Alerting System ;
- c)* an Automatic Altitude Control System ;
- d)* a Secondary Surveillance Radar (*SSR*) Transponder with Altitude Reporting System that can be connected to the Altitude Measurement System in use for altitude control.

**SPA. RVSM. 115. RVSM Height - keeping Errors**

*a)* The Operator shall report recorded or communicated occurrences of height - keeping errors caused by malfunction of aircraft equipment or of operational nature, equal to or greater than :

- 1) a Total Vertical Error ( *TVE* ) of  $\pm 90$  m (  $\pm 300$  ft );
- 2) an Altimetry System Error ( *ASE* ) of  $\pm 75$  m (  $\pm 245$  ft ); *and*
- 3) an Assigned Altitude Deviation ( *AAD* ) of  $\pm 90$  m (  $\pm 300$  ft ).

*b)* Reports of such occurrences *shall be sent to the Competent Authority within 72 hours.* Reports shall include an initial analysis of causal factors and measures taken to prevent repeat occurrences ;

*c)* When Height - keeping Errors are recorded or received, the Operator shall take immediate action to rectify the conditions that caused the errors and provide follow - up reports, if requested by the GDCA.

**SUBPART E. LOW VISIBILITY OPERATIONS ( LVO )****SPA. LVO. 100. Low Visibility Operations**

The Operator shall only conduct the following Low Visibility Operations (*LVO*) when approved by the GDCA of RA :

- a*) Low Visibility Take - off ( *LVTO* ) Operation ;
- b*) Lower Than Standard Category I ( *LTS CAT I* ) Operation ;
- c*) Standard Category II ( *CAT II* ) Operation ;
- d*) other than standard category II ( *OTS CAT II* ) Operation ;
- e*) Standard Category III ( *CAT III* ) Operation ;
- f*) approach operation utilizing Enhanced Vision Systems ( *EVS* ) for which an operational credit is applied to reduce the Runway Visual Range ( *RVR* ) Minima by *no more than one third of the published RVR*.

**SPA. LVO. 105. LVO Approval**

To obtain an LVO approval from the GDCA, the Operator shall demonstrate compliance with the requirements of this Subpart.

**SPA. LVO. 110. General Operating Requirements**

- a*) The Operator shall only conduct LTS CAT I Operations if:
  - 1) each aircraft concerned is certified for operations to conduct CAT II operations ; *and*
  - 2) the approach is flown :
    - ( i ) auto-coupled to an Auto-land that needs to be approved for CAT III A operations ; *or*
    - ( ii ) using an approved Head - up Display Landing System ( *HUDLS* ) to *at least 150 ft above* the threshold.
- b*) The Operator shall only conduct CAT II, OTS CAT II or CAT III Operations if:
  - 1) each aircraft concerned is certified for operations with a Decision Height ( *DH* ) *below 200 ft*, or no DH, and equipped in accordance with the applicable airworthiness requirements ;
  - 2) a system for recording approach and /or automatic landing success and failure is established and maintained to monitor the overall safety of the operation ;
  - 3) the DH is determined by means of a Radio Altimeter ;
  - 4) the flight crew consists of *at least 2 ( two ) pilots* ;
  - 5) all height call - outs *below 200 ft above the aerodrome threshold elevation* are determined by a Radio Altimeter.
- c*) The Operator shall only conduct approach operations utilizing an EVS if:
  - 1) the EVS is certified for the purpose of this Subpart and combines infra - red sensor image and flight information on the HUD ;

- 2) for operations with an RVR *below 550 m*, the flight crew consists of at least two pilots ;
- 3) for CAT I operations, natural visual reference to runway cues is attained *at least at 100 ft above the aerodrome threshold elevation* ;
- 4) for approach procedure with Vertical Guidance ( APV ) and Non-precision Approach ( NPA ) Operations flown with CDFA technique, natural visual reference to runway cues is attained *at least at 200 ft above the aerodrome threshold elevation* and the following requirements are complied with :
  - ( i ) the approach is flown using an approved vertical flight path guidance mode ;
  - ( ii ) the approach segment from Final Approach Fix ( FAF ) to runway threshold is straight and the difference between the final approach course and the runway centreline is not greater than  $2^{\circ}$  ;
  - ( iii ) the final approach path is published and not greater than  $3,7^{\circ}$  ;
  - ( iv ) the maximum cross-wind components established during certification of the EVS are not exceeded.

#### **SPA. LVO. 115. Aerodrome Related Requirements**

- a)** The Operator shall not use an aerodrome for LVO's below a visibility of **800 m** unless :
  - 1) the aerodrome has been approved for such operations by the State of the aerodrome ;  
*and*
  - 2) Low Visibility Procedures ( *LVP* ) have been established.
- b)** If the Operator selects an aerodrome where the term LVP is not used, the Operator shall ensure that there are equivalent procedures that adhere to the requirements of LVP at the aerodrome. This situation shall be clearly noted in the Operations Manual or Procedures Manual including guidance to the flight crew on how to determine that the equivalent LVP are in effect.

#### **SPA. LVO. 120. Flight Crew Training and Qualifications**

The Operator shall ensure that, prior to conducting an LVO :

- a)** each flight crew member :
  - 1) complies with the training and checking requirements prescribed in the Operations Manual, including Flight Simulation Training Device ( FSTD ) Training, in operating to the limiting values of RVR / VIS ( visibility ) and DH specific to the operation and the aircraft type ;
  - 2) is qualified in accordance with the standards prescribed in the Operations Manual ;
- b)** the Training and Checking is conducted in accordance with a detailed syllabus.

**SPA. LVO. 125. Operating Procedures**

- a*) The Operator shall establish procedures and instructions to be used for LVO's. These procedures and instructions shall be included in the Operations Manual or Procedures Manual and contain the duties of flight crew members during taxiing, take-off, approach, flare, landing, rollout and missed approach operations, as appropriate ;
- b*) Prior to commencing an LVO, the Pilot - in - Command / Commander shall be satisfied that :
- 1) the status of the visual and non-visual facilities is sufficient ;
  - 2) appropriate LVP's are in force according to information received from Air Traffic Services (*ATS*) ;
  - 3) flight crew members are properly qualified.

**SPA. LVO. 130. Minimum Equipment**

- a*) The Operator shall include the minimum equipment that has to be serviceable at the commencement of an LVO in accordance with the Aircraft Flight Manual (*AFM*) or other approved document in the Operations Manual *or* Procedures Manual, as applicable.
- b*) The Pilot - in - Command / Commander shall be satisfied that the status of the aircraft and of the relevant airborne systems is appropriate for the specific operation to be conducted.

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**SUBPART F. EXTENDED RANGE OPERATIONS with  
TWO - ENGINED AEROPLANES ( ETOPS )**

**SPA. ETOPS. 100. ETOPS**

In Commercial Air Transport Operations, two - engined aeroplanes shall only be operated beyond the threshold distance determined in accordance with *CAT. OP. MPA. 140* if the Operator has been granted an ETOPS operational approval by the GDCA of RA.

**SPA. ETOPS. 105. ETOPS Operational Approval**

To obtain an ETOPS operational approval from the GDCA, the Operator shall provide evidence that :

- a)* the aeroplane / engine combination holds an ETOPS type design and reliability approval for the intended operation ;
- b)* a training programme for the flight crew members and all other operations personnel involved in these operations has been established and the flight crew members and all other operations personnel involved are suitably qualified to conduct the intended operation ;
- c)* the Operator's organization and experience are appropriate to support the intended operation ;
- d)* operating procedures have been established.

**SPA. ETOPS. 110. ETOPS En - route Alternate Aerodrome**

- a)* An ETOPS En-route alternate aerodrome shall be considered adequate, if, at the expected time of use, the aerodrome is available and equipped with necessary ancillary services such as Air Traffic Services (*ATS*), sufficient lighting, communications, weather reporting, navigation aids and emergency services and has at least one instrument approach procedure available ;
- b)* Prior to conducting an ETOPS flight, the Operator shall ensure that an ETOPS En-route alternate aerodrome is available, within either the Operator's approved diversion time, or a diversion time based on the MEL generated serviceability status of the aeroplane, whichever is shorter ;
- c)* The Operator shall specify any required ETOPS En-route alternate aerodrome(s) in the Operational Flight Plan *and* ATS Flight Plan.

**SPA. ETOPS. 115. ETOPS En - route Alternate Aerodrome Planning Minima**

- a)* The Operator shall only select an aerodrome as an ETOPS En - route alternate aerodrome when the appropriate weather reports or forecasts, or any combination thereof, indicate that, between the anticipated time of landing until one hour after the latest possible time of landing, conditions will exist at or above the planning minima calculated by adding the additional limits of Table 1 ;
- b)* The Operator shall include in the Operations Manual the method for determining the operating minima at the planned ETOPS En - route alternate aerodrome.

*Table 1. Planning Minima for the ETOPS En - route Alternate Aerodrome*

Type of Approach	Planning Minima
Precision Approach	DA / H + 200 ft, RVR / VIS + 800 m ( * )
Non - precision Approach <i>or</i> Circling Approach	MDA / H + 400 ft, RVR / VIS + 1 500 m ( * )
<i>( * ) VIS : Visibility ; MDA / H : Minimum Descent Altitude / Height.</i>	



## **SUBPART G. TRANSPORT of DANGEROUS GOODS**

### **SPA. DG. 100. Transport of Dangerous Goods**

Except as provided for in Annex IV ( Part - CAT ), Annex VI ( Part - NCC ), Annex VII ( Part - NCO ) and Annex VIII ( Part - SPO ), the Operator shall only transport Dangerous Goods by air if the Operator has been approved by the GDCA of RA.

### **SPA. DG. 105. Approval to Transport Dangerous Goods**

To obtain the approval to transport dangerous goods, the Operator shall in accordance with the technical instructions :

- a*) establish and maintain a training program for all personnel involved and demonstrate to the GDCA that adequate training has been given to all personnel ;
- b*) establish operating procedures to ensure the safe handling of dangerous goods at all stages of air transport, containing information and instructions on :
  - 1) the Operator's policy to transport dangerous goods ;
  - 2) the requirements for acceptance, handling, loading, stowage and segregation of dangerous goods ;
  - 3) actions to take in the event of an aircraft accident or incident when dangerous goods are being carried ;
  - 4) the response to emergency situations involving dangerous goods ;
  - 5) the removal of any possible contamination ;
  - 6) the duties of all personnel involved, especially with relevance to ground handling and aircraft handling ;
  - 7) inspection for damage, leakage or contamination ;
  - 8) dangerous goods accident and incident reporting.

### **SPA. DG. 110. Dangerous Goods Information and Documentation**

The Operator shall, in accordance with the technical instructions :

- a*) provide written information to the Pilot - in - Command / Commander :
  - 1) about dangerous goods to be carried on the aircraft ;
  - 2) for use in responding to in-flight emergencies ;
- b*) use an acceptance checklist ;
- c*) ensure that dangerous goods are accompanied by the required dangerous goods transport document(s), as completed by the person offering dangerous goods for air transport, except when the information applicable to the dangerous goods is provided in electronic form ;
- d*) ensure that where a dangerous goods transport document is provided in written form, a copy of the document is retained on the ground where it will be possible to obtain access to it within a reasonable period until the goods have reached their final destination ;

- e)* ensure that a copy of the information to the Pilot - in - Command / Commander is retained on the ground and that this copy, or the information contained in it, is readily accessible to the aerodromes of last departure and next scheduled arrival, until after the flight to which the information refers ;
- f)* retain the acceptance Checklist, transport document and information to the Pilot - in - Command / Commander for *at least 3 (three) months* after completion of the flight ;
- g)* retain the training records of all personnel *for at least 3 (three) years*.

## SUBPART H. HELICOPTER OPERATIONS WITH NIGHT VISION IMAGING SYSTEMS ( NVIS )

### SPA. NVIS. 100. Night Vision Imaging System ( NVIS ) Operations

- a*) Helicopters shall only be operated under VFR at night with the aid of NVIS if the Operator has been approved by the GDCA of RA ;
- b*) To obtain such approval by the GDCA, the Operator shall :
- 1) operate in Commercial Air Transport ( CAT ) and hold a CAT AOC in accordance with Annex III ( Part - ORO ) ;
  - 2) demonstrate to the GDCA :
    - ( i ) compliance with the applicable requirements contained in this Subpart ;
    - ( ii ) the successful integration of all elements of the NVIS.

### SPA. NVIS. 110. Equipment Requirements for NVIS Operations

- a*) Before conducting NVIS operations each helicopter and all associated NVIS equipment shall have been issued with the relevant airworthiness approval in accordance with CR ( EC ) N° 1702 / 2003 ;
- b*) Radio Altimeter. The helicopter shall be equipped with a radio altimeter capable of emitting an audio warning below a pre - set height and an audio and visual warning at a height selectable by the pilot, instantly discernable during all phases of NVIS flight ;
- c*) Aircraft NVIS Compatible Lighting. To mitigate the reduced peripheral vision cues and the need to enhance situational awareness, the following shall be provided :
- 1) NVIS - compatible instrument panel flood - lighting, if installed, that can illuminate all essential flight instruments ;
  - 2) NVIS - compatible utility lights ;
  - 3) portable NVIS compatible flashlight ; *and*
  - 4) a means for removing or extinguishing internal NVIS non - compatible lights.
- d*) Additional NVIS Equipment. The following additional NVIS equipment shall be provided :
- 1) a back - up or secondary power source for the Night Vision Goggles ( NVG ) ;
  - 2) a helmet with the appropriate NVG attachment.
- e*) All required NVG's on an NVIS flight shall be of the same type, generation and model ;
- f*) Continuing Airworthiness
- 1) Procedures for continuing airworthiness shall contain the information necessary for carrying out ongoing maintenance and inspections on NVIS equipment installed in the helicopter and shall cover, as a minimum :
    - ( i ) helicopter windscreens and transparencies ;
    - ( ii ) NVIS lighting ;
    - ( iii ) NVG's ; *and*
    - ( iv ) any additional equipment that supports NVIS operations.
  - 2) Any subsequent modification or maintenance to the aircraft shall be in compliance with the NVIS airworthiness approval.

**SPA. NVIS. 120. NVIS Operating Minima**

- a)* Operations shall not be conducted below the VFR weather minima for the type of night operations being conducted ;
- b)* The Operator shall establish the minimum transition height from where a change to / from aided flight may be continued.

**SPA. NVIS. 130. Crew Requirements for NVIS Operations**

- a)* Selection. The Operator shall establish criteria for the selection of crew members for the NVIS task ;
- b)* Experience. The minimum experience for the Commander shall not be less than 20 hours VFR at night as Pilot - in - Command / Commander of a helicopter before commencing training ;
- c)* Operational Training. All pilots shall have completed the operational training in accordance with the NVIS procedures contained in the Operations Manual ;
- d)* Recency. All pilots and NVIS technical crew members conducting NVIS operations *shall have completed 3 (three) NVIS flights in the last 90 days.* Recency may be re - established on a training flight in the helicopter or an approved Full Flight Simulator ( FFS ), which shall include the elements of ( f )( 1 ) ;
- e)* Crew Composition. The minimum crew shall be the greater of that specified :
- 1) in the Aircraft Flight Manual ( AFM ) ;
  - 2) for the underlying activity ; *or*
  - 3) in the operational approval for the NVIS operations.
- f)* Crew Training and Checking
- 1) Training and Checking shall be conducted in accordance with a detailed syllabus approved by the GDCA and included in the Operations Manual ;
  - 2) Crew members :
    - ( i ) crew training programs shall : - improve knowledge of the NVIS working environment and equipment ; - improve crew coordination ; *and*
    - include measures to minimize the risks associated with entry into low visibility conditions and NVIS normal and emergency procedures ;
    - ( ii ) the measures referred to in ( f )( 2 )( i ) shall be assessed during :
      - ( A ) night Proficiency Checks ; *and*
      - ( B ) Line Checks.

**SPA. NVIS. 140. Information and Documentation**

The Operator shall ensure that, as part of its risk analysis and management process, risks associated with the NVIS environment are minimized by specifying in the Operations Manual :

- selection, composition and training of crews ; - levels of equipment and dispatch criteria ; *and*
- operating procedures and minima, such that normal and likely abnormal operations are described and adequately mitigated.

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**SUBPART I. HELICOPTER HOIST OPERATIONS ( HHO )****SPA. HHO. 100. Helicopter Hoist Operations ( HHO )**

- a*) Helicopters shall only be operated for the purpose of CAT hoist operations if the operator has been approved by the GDCA of RA ;
- b*) To obtain such approval by the GDCA, the Operator shall :
- 1) operate in CAT and hold a CAT AOC in accordance with Annex III ( Part - ORO ) ;
  - 2) demonstrate to the GDCA compliance with the requirements contained in this Subpart.

**SPA. HHO. 110. Equipment Requirements for HHO**

- a*) The installation of all helicopter hoist equipment, including any radio equipment to comply with *SPA. HHO. 115*, and any subsequent modifications, shall have an airworthiness approval appropriate to the intended function. Ancillary equipment shall be designed and tested to the appropriate standard as required by the GDCA ;
- b*) Maintenance instructions for HHO equipment and systems shall be established by the Operator in liaison with the manufacturer and included in the Operator's helicopter maintenance program as required by CR - EC N° 2042 / 2003.

**SPA. HHO. 115. HHO Communication**

Two - way radio communication shall be established with the organization for which the HHO is being provided and, where possible, a means of communicating with ground personnel at the HHO site for :

- ( a ) day and night offshore operations ;
- ( b ) night onshore operations, except for HHO at a Helicopter Emergency Medical Services (*HEMS*) operating site.

**SPA. HHO. 125. Performance Requirements for HHO**

Except for HHO at a HEMS operating site, HHO shall be capable of sustaining a critical engine failure with the remaining engine(s) at the appropriate power setting without hazard to the suspended person(s) / cargo, third parties or property.

**SPA. HHO. 130. Crew Requirements for HHO**

**a) Selection.** The Operator shall establish criteria for the selection of flight crew members for the HHO task, taking previous experience into account ;

**b) Experience.** The minimum experience level for the Commander conducting HHO flights shall not be less than :

1) Offshore :

(i) 1 000 hours as Pilot - in - Command / Commander of helicopters, or 1 000 hours as Co-pilot in HHO of which 200 hours is as Pilot - in - Command under supervision ;

*and*

(ii) 50 hoist cycles conducted offshore, of which 20 cycles shall be at night if night operations are being conducted, where a hoist cycle means one down - and - up cycle of the hoist hook.

2) Onshore :

(i) 500 hours as Pilot - in - Command / Commander of helicopters, or 500 hours as Co-pilot in HHO of which 1 00 hours is as Pilot - in - Command under supervision ;

(ii) 200 hours operating experience in helicopters gained in an operational environment similar to the intended operation ; *and*

(iii) 50 hoist cycles, of which 20 cycles shall be at night if night operations are being conducted.

**c) Operational Training and Experience.** Successful completion of training in accordance with the HHO procedures contained in the Operations Manual and relevant experience in the role and environment under which HHO are conducted ;

**d) Recency.** All pilots and HHO crew members conducting HHO shall have completed in the last 90 days :

1) when operating by day : - any combination of *3 (three) day or night hoist cycles*, each of which shall include a transition to and from the hover ;

2) when operating by night : - *3 (three) night hoist cycles*, each of which shall include a transition to and from the hover.

**e) Crew Composition.** The minimum crew for day or night operations shall be as stated in the Operations Manual. The minimum crew will be dependent on the type of helicopter, the weather conditions, the type of task, and, in addition for offshore operations, the HHO site environment, the sea state and the movement of the vessel. In no case shall the minimum crew be less than one pilot and one HHO crew member ;

**f) Training and Checking**

1) Training and Checking shall be conducted in accordance with a detailed syllabus approved by the GDCA and included in the Operations Manual ;

2) Crew members :

(i) crew training programmes shall : - improve knowledge of the HHO working environment and equipment ; - improve crew coordination ; *and*  
- include measures to minimize the risks associated with HHO normal and emergency procedures and static discharge ;



- (ii) the measures referred to in *(f)(2)(i)* shall be assessed during Visual Meteorological Conditions (VMC) *day Proficiency Checks*, or VMC *night Proficiency Checks* when night HHO are undertaken by the Operator.

**SPA. HHO. 135. HHO Passenger Briefing**

Prior to any HHO flight, or series of flights, HHO passengers shall have been briefed and made aware of the dangers of static electricity discharge and other HHO considerations.

**SPA. HHO. 140. Information and Documentation**

*a)* The Operator shall ensure that, as part of its risk analysis and management process, risks associated with the HHO environment are minimized by specifying in the Operations Manual : - selection, composition and training of crews ; - levels of equipment and dispatch criteria ; *and* - operating procedures and minima, such that normal and likely abnormal operations are described and adequately mitigated ;

*b)* Relevant extracts from the Operations Manual shall be available to the organization for which the HHO is being provided.

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## **SUBPART J. HELICOPTER EMERGENCY MEDICAL SERVICE OPERATIONS ( HEMS )**

### **SPA. HEMS. 100. Helicopter Emergency Medical Service ( HEMS ) Operations**

*a*) Helicopters shall only be operated for the purpose of HEMS operations if the Operator has been approved by the GDCA of RA ;

*b*) To obtain such approval by the GDCA, the Operator shall :

- 1) operate in CAT and hold a CAT AOC in accordance with Annex III ( Part - ORO ) ;
- 2) demonstrate to the Competent Authority compliance with the requirements contained in this Subpart.

### **SPA. HEMS. 110. Equipment Requirements for HEMS Operations**

The installation of all helicopter dedicated medical equipment and any subsequent modifications and, where appropriate, its operation shall be approved in accordance with CR - EU N° 748 / 2012

### **SPA. HEMS. 115. Communication**

In addition to that required by CAT. IDE. H, helicopters conducting HEMS flights shall have communication equipment capable of conducting two - way communication with the organization for which the HEMS is being conducted and, where possible, to communicate with ground emergency service personnel.

### **SPA. HEMS. 120. HEMS Operating Minima**

*a*) HEMS flights operated in Performance Class **1 and 2** shall comply with the weather minima in Table 1. for dispatch and En-route phase of the HEMS flight. In the event that during the En-route phase the weather conditions fall below the cloud base or visibility minima shown, helicopters certified for flights only under VMC shall abandon the flight or return to base. Helicopters equipped and certified for Instrument Meteorological Conditions (*IMC*) operations may abandon the flight, return to base or convert in all respects to a flight conducted under Instrument Flight Rules (*IFR*), provided the flight crew are suitably qualified.

**Table 1. HEMS Operating Minima**

<b>2 Pilots</b>		<b>1 Pilot</b>	
<b>DAY</b>			
<i>Ceiling</i>	<i>Visibility</i>	<i>Ceiling</i>	<i>Visibility</i>
<b>500 ft and above</b>	As defined by the applicable airspace VFR Minima	<b>500 ft and above</b>	As defined by the applicable airspace VFR Minima
<b>499 - 400 ft</b>	<b>1 000 m (*)</b>	<b>499 - 400 ft</b>	<b>2 000 m</b>
<b>399 - 300 ft</b>	<b>2 000 m</b>	<b>399 - 300 ft</b>	<b>3 000 m</b>
<b>NIGHT</b>			
<i>Cloud Base</i>	<i>Visibility</i>	<i>Cloud Base</i>	<i>Visibility</i>
<b>1 200 ft (**)</b>	<b>2 500 m</b>	<b>1 200 ft (**)</b>	<b>3 000 m</b>

(\*) During the En-route phase visibility may be reduced to 800 m for short periods when in sight of land if the helicopter is manoeuvred at a speed that will give adequate opportunity to observe any obstacles in time to avoid a collision ;

(\*\*) During the En-route phase, cloud base may be reduced to 1 000 ft for short periods.

**b)** The weather minima for the dispatch and En-route phase of a HEMS flight operated in Performance Class **3** shall be a cloud ceiling of **600 ft** and a visibility of **1 500 m**. Visibility may be reduced to **800 m** for short periods when in sight of land if the helicopter is manoeuvred at a speed that will give adequate opportunity to observe any obstacle and avoid a collision.

### **SPA. HEMS. 125. Performance Requirements for HEMS Operations**

**a)** Performance Class **3** operations shall not be conducted over a hostile environment.

**b)** Take - off and Landing :

- 1) Helicopters conducting operations to / from a Final Approach and Take-Off Area (*FATO*) at a hospital that is located in a congested hostile environment and that is used as a HEMS operating base shall be operated in accordance with Performance Class **1** ;
- 2) Helicopters conducting operations to / from a *FATO* at a hospital that is located in a congested hostile environment and that is not a HEMS operating base shall be operated in accordance with Performance Class **1**, except when the Operator holds an approval in accordance with *CAT. POL. H. 225* ;
- 3) Helicopters conducting operations to / from a HEMS operating site located in a hostile environment shall be operated in accordance with Performance Class **2** and be exempt from the approval required by *CAT. POL. H. 305 (a)*, provided compliance is shown with *CAT. POL. H. 305 (b)(2)* and *(b)(3)* ;
- 4) The HEMS operating site shall be big enough to provide adequate clearance from all obstructions. For night operations, the site shall be illuminated to enable the site and any obstructions to be identified.

**SPA. HEMS. 130. Crew Requirements**

- a) Selection.** The Operator shall establish criteria for the selection of flight crew members for the HEMS task, taking previous experience into account ;
- b) Experience.** The minimum experience level for the Commander conducting HEMS flights shall not be less than :
- 1) either :
    - (i) **1 000 hours** as Pilot - in - Command / Commander of aircraft of which **500 hours** are as PIC / Commander on helicopters ; *or*
    - (ii) **1 000 hours** as Co-pilot in HEMS operations of which **500 hours** are as Pilot - in - Command under supervision and **100 hours** pilot - in - Command / Commander of helicopters ;
  - 2) **500 hours'** operating experience in helicopters, gained in an operational environment similar to the intended operation ; *and*
  - 3) for pilots engaged in night operations, **20 hours** of VMC at night as Pilot - in - Command / Commander.
- c) Operational Training.** Successful completion of operational training in accordance with the HEMS procedures contained in the Operations Manual ;
- d) Recency.** All pilots conducting HEMS operations shall *have completed a minimum of 30 minutes' flight* by sole reference to instruments in a helicopter *or* in an FSTD within the last six months ;
- e) Crew Composition**
- 1) **Day Flight.** The minimum crew by day shall be one pilot and one HEMS technical crew member ;
    - (i) this may be reduced to one pilot only when :
      - (A) at a HEMS operating site the Commander is required to fetch additional medical supplies. In such case the HEMS technical crew member may be left to give assistance to ill or injured persons while the Commander undertakes this flight ;
      - (B) after arriving at the HEMS operating site, the installation of the stretcher precludes the HEMS technical crew member from occupying the front seat ; *or*
      - (C) the medical passenger requires the assistance of the HEMS technical crew member in flight.
    - (ii) in the cases described in (i), the operational minima shall be as defined by the applicable airspace requirements ; - the HEMS operating minima contained in Table 1 of *SPA. HEMS. 120* shall not be used ;
    - (iii) only in the case described in (i)(A) may the Commander land at a HEMS operating site without the technical crew member assisting from the front seat ;
  - 2) **Night Flight.** The minimum crew by night shall be :
    - (i) two pilots ; *or*
    - (ii) one pilot and one HEMS technical crew member in specific geographical areas defined by the Operator in the Operations Manual taking into account the following :
      - (A) adequate ground reference ;
      - (B) flight following system for the duration of the HEMS mission ;
      - (C) reliability of weather reporting facilities ;

- (D) HEMS Minimum Equipment List ;
- (E) continuity of a crew concept ;
- (F) minimum crew qualification, initial and recurrent training ;
- (G) operating procedures, including crew coordination ;
- (H) weather minima ; *and*
- (I) additional considerations due to specific local conditions.

**f) Crew Training and Checking**

- 1) Training and Checkings shall be conducted in accordance with a detailed syllabus approved by the GDCA and included in the Operations Manual ;
- 2) Crew members :
  - (i) crew training programmes shall : - improve knowledge of the HEMS working environment and equipment ; - improve crew coordination ; *and* - include measures to minimize the risks associated with En-route transit in low visibility conditions, selection of HEMS operating sites and approach and departure profiles ;
  - (ii) the measures referred to in (f)(2)(i) shall be assessed during :
    - (A) VMC day Proficiency Checks, *or* VMC night Proficiency Checks when night HEMS operations are undertaken by the Operator ; *and*
    - (B) Line Checks.

**SPA. HEMS. 135. HEMS Medical Passenger and other Personnel Briefing**

- a) Medical Passenger.** Prior to any HEMS flight, or series of flights, medical passengers shall have been briefed to ensure that they are familiar with the HEMS working environment and equipment, can operate on-board medical and emergency equipment and can take part in normal and emergency entry and exit procedures ;
- b) Ground Emergency Service Personnel.** The Operator shall take all reasonable measures to ensure that ground emergency service personnel are familiar with the HEMS working environment and equipment and the risks associated with ground operations at a HEMS operating site ;
- c) Medical Patient.** Notwithstanding *CAT. OP. MPA. 170*, a briefing shall only be conducted if the medical condition makes this practicable.

**SPA. HEMS. 140. Information and Documentation**

- a)** The Operator shall ensure that, as part of its risk analysis and management process, risks associated with the HEMS environment are minimized by specifying in the Operations Manual: - selection, composition and training of crews ; - levels of equipment and dispatch criteria ; *and* - operating procedures and minima, such that normal and likely abnormal operations are described and adequately mitigated ;
- b)** Relevant extracts from the Operations Manual shall be made available to the organization for which the HEMS is being provided.

**SPA. HEMS. 145. HEMS Operating Base Facilities**

- a)* If crew members are required to be on standby with a reaction time of less than *45 minutes*, dedicated suitable accommodation shall be provided close to each operating base ;
- b)* At each operating base the pilots shall be provided with facilities for obtaining current and forecast weather information and shall be provided with satisfactory communications with the appropriate Air Traffic Services (*ATS*) unit.
- Adequate facilities shall be available for the planning of all tasks.

**SPA. HEMS. 150. Fuel Supply**

- a)* When the HEMS mission is conducted under VFR within a local and defined geographical area, standard fuel planning can be employed provided the Operator establishes final reserve fuel to ensure that, on completion of the mission the fuel remaining *is not less than an amount of fuel sufficient for :*
- (1) *30 minutes* of flying time at normal cruising conditions ; *or*
- (2) when operating within an area providing continuous and suitable precautionary landing sites, *20 minutes* of flying time at normal cruising speed.

**SPA. HEMS. 155. Refuelling with Passengers Embarking, on Board or Disembarking**

When the Commander considers refuelling with passengers on board to be necessary, it can be undertaken either rotors stopped or rotors turning provided the following requirements are met :

- (a) door(s) on the refuelling side of the helicopter shall remain closed ;
- (b) door(s) on the non - refuelling side of the helicopter shall remain open, weather permitting ;
- (c) fire fighting facilities of the appropriate scale shall be positioned so as to be immediately available in the event of a fire ; *and*
- (d) sufficient personnel shall be immediately available to move patients clear of the helicopter in the event of a fire.

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## SUBPART K. HELICOPTER OFFSHORE OPERATIONS

### SPA. HOFO. 100. Helicopter Offshore Operations (HOFO)

The requirements of this Subpart apply to :

- a)* A Commercial Air Transport operator holding a valid AOC in accordance with Part - ORO ;
- b)* A Specialized Operations operator having declared its activity in accordance with Part - ORO ;  
*or*
- c)* A Non - commercial operator having declared its activity in accordance with Part - ORO.

### SPA. HOFO. 105. Approval for Helicopter Offshore Operations

- a)* Prior to engaging in operations under this Subpart, a specific approval by the GDCA of RA shall have been issued to the operator ;
- b)* To obtain such approval, the operator shall submit an application to the GDCA as specified in SPA.GEN.105, and shall demonstrate compliance with the requirements of this Subpart ;
- c)* The operator shall, prior to performing operations from a State other than the State that issued the approval under (*a*), inform the competent authorities in both Member States of the intended operation.

### SPA. HOFO. 110. Operating Procedures

- a)* The operator shall, as part of its safety management process, mitigate and minimize risks and hazards specific to helicopter offshore operations. The operator shall specify in the Operations Manual the :
  - 1) selection, composition and training of crews ;
  - 2) duties and responsibilities of crew members and other involved personnel ;
  - 3) required equipment and dispatch criteria ; *and*
  - 4) operating procedures and minima, such that normal and likely abnormal operations are described and adequately mitigated.
- b)* The operator shall ensure that :
  - 1) an operational flight plan is prepared prior to each flight ;
  - 2) the passenger safety briefing also includes any specific information on offshore related items and is provided prior to boarding the helicopter ;
  - 3) each member of the flight crew wears an approved survival suit :
    - (i) when the weather report or forecasts available to the Pilot-in-Command / Commander indicate that the sea temperature will be less than plus 10 °C during the flight ; *or*
    - (ii) when the estimated rescue time exceeds the calculated survival time ; *or*
    - (iii) when the flight is planned to be conducted at night in a hostile environment.
  - 4) where established, the offshore route structure provided by the appropriate ATS is followed;
  - 5) pilots make optimum use of the Automatic Flight Control Systems ( AFCS ) throughout the flight ;
  - 6) specific offshore approach profiles are established, including stable approach parameters and the corrective action to be taken if an approach becomes unstable ;

- 7) for multi-pilot operations, procedures are in place for a member of the flight crew to monitor the flight instruments during an offshore flight, especially during approach or departure, to ensure that a safe flight path is maintained ;
- 8) the flight crew takes immediate and appropriate action when a height alert is activated ;
- 9) procedures are in place to require the emergency flotation systems to be armed, when safe to do so, for all overwater arrivals and departures ; *and*
- 10) operations are conducted in accordance with any restriction on the routes or the areas of operation specified by the competent authority or the appropriate authority responsible for the airspace.

#### **SPA. HOFO. 115. Use of Offshore Locations**

The operator shall only use offshore locations that are suitable in relation to size and mass of the type of helicopter and to the operations concerned.

#### **SPA. HOFO. 120. Selection of Aerodromes and Operating Sites**

##### ***a) Onshore Destination Alternate Aerodrome :***

Notwithstanding CAT.OP.MPA.181, NCC.OP.152, and SPO.OP.151, the Pilot-in Command / Commander does not need to specify a destination alternate aerodrome in the operational flight plan when conducting flights from an offshore location to a land aerodrome if either :

- 1) the destination aerodrome is defined as a coastal aerodrome ; *or*
- 2) the following criteria are met :
  - (i) the destination aerodrome has a published instrument approach ;
  - (ii) the flight time is less than 3 hours ; *and*
  - (iii) the published weather forecast valid from 1 hour prior, and 1 hour subsequent to the expected landing time specifies that :
    - (A) the cloud base is at least 700 feet above the minima associated with the instrument approach, or 1 000 feet above the destination aerodrome, whichever is the higher ; *and*
    - (B) visibility is at least 2 500 meters.

##### ***b) Offshore Destination Alternate Helideck :***

The operator may select an offshore destination alternate helideck when all of the following criteria are met :

- 1) an offshore destination alternate helideck shall be used only after the Point of No Return (PNR) and when an onshore destination alternative aerodrome is not geographically available. Prior to the PNR, an onshore destination alternate aerodrome shall be used ;
- 2) One Engine Inoperative (OEI) landing capability shall be attainable at the offshore destination alternate helideck ;
- 3) to the extent possible, helideck availability shall be guaranteed prior to PNR. The dimensions, configuration and obstacle clearance of individual helidecks or other sites shall be suitable for its use as an alternate helideck by each helicopter type intended to be used;
- 4) weather minima shall be established taking into account the accuracy and reliability of meteorological information ;
- 5) the MEL shall contain specific provisions for this type of operation ;

- 6) an offshore destination alternate helideck shall only be selected if the operator has established a procedure in the Operations Manual.

**SPA. HOFO. 125. Airborne Radar Approaches (ARAs) to Offshore Locations – CAT Operations**

- a)** A commercial air transport (CAT) operator shall establish operational procedures and ensure that ARAs are only flown if:
- 1) the helicopter is equipped with a radar that is capable of providing information regarding the obstacle environment ; *and*
  - 2) either :
    - (i) the Minimum Descent Height (MDH) is determined from a Radio Altimeter ; *or*
    - (ii) the Minimum Descent Altitude (MDA) plus an adequate margin is applied.
- b)** ARAs to rigs or vessels in transit shall be flown as multi-pilot operations ;
- c)** The decision range shall provide adequate obstacle clearance in the missed approach from any destination for which an ARA is planned ;
- d)** The approach shall only be continued beyond decision range or below the minimum descent altitude / height (MDA / H) when visual reference to the destination has been established ;
- e)** For single-pilot CAT operations, appropriate increments shall be added to the MDA / H and decision range.
- f)** When an ARA is flown to a non-moving offshore location (*i. e. fixed installation or moored vessel*) and a reliable GPS position for the location is available in the navigation system, the GPS / area navigation system shall be used to enhance the safety of the ARA.

**SPA. HOFO. 130. Meteorological Conditions**

Notwithstanding CAT.OP.MPA.247, NCC.OP.180 and SPO.OP.170, when flying between offshore locations located in class G airspace where the overwater sector is less than 10 NM, VFR flights may be conducted when the limits are at, or better than, the following :

**Minima for Flying between Offshore Locations Located in Class G Airspace**

	Day		Night	
	Height ( <sup>*</sup> )	Visibility	Height ( <sup>*</sup> )	Visibility
<b>Single Pilot</b>	<b>300 feet</b>	<b>3 km</b>	<b>500 feet</b>	<b>5 km</b>
<b>Two Pilots</b>	<b>300 feet</b>	<b>2 km ( <sup>**</sup> )</b>	<b>500 feet</b>	<b>5 km ( <sup>***</sup> )</b>
<p>( <sup>*</sup> ) <i>the cloud base shall allow flight at the specified height to be below and clear of cloud ;</i></p> <p>( <sup>**</sup> ) <i>Helicopters may be operated in flight visibility down to 800 m, provided the destination or an intermediate structure is continuously visible ;</i></p> <p>( <sup>***</sup> ) <i>Helicopters may be operated in flight visibility down to 1 500 m, provided the destination or an intermediate structure is continuously visible ;</i></p>				

**SPA. HOFO. 135. Wind Limitations for Operations to Offshore Locations**

Operation to an offshore location shall only be performed when the wind speed at the helideck is reported to be not more than 60 knots including gusts.

**SPA. HOFO. 140. Performance Requirements at Offshore Locations**

Helicopters taking - off from and landing at offshore locations shall be operated in accordance with the performance requirements of the appropriate Annex according to their type of operation.

**SPA. HOFO. 145. Flight Data Monitoring ( FDM ) System**

*a*) When conducting CAT operations with a helicopter equipped with a flight data recorder, the operator shall establish and maintain a FDM system, as part of its integrated management system, by 1 January 2019 ;

*b*) The FDM system shall be non-punitive and contain adequate safeguards to protect the source(s) of the data.

**SPA. HOFO. 150. Aircraft Tracking System**

An operator shall establish and maintain a monitored aircraft tracking system for offshore operations in a hostile environment from the time the helicopter departs until it arrives at its final destination.

**SPA. HOFO. 155. Vibration Health Monitoring ( VHM ) System**

*a*) The following helicopters conducting CAT offshore operations in a hostile environment shall be fitted with a VHM system capable of monitoring the status of critical rotor and rotor drive systems by 1 January 2019 :

- 1) complex motor-powered helicopters first issued with an individual Certificate of Airworthiness ( CofA ) after 31 December 2016 ;
- 2) all helicopters with a maximum operational passenger seating configuration ( MOPSC ) of more than 9 and first issued with an individual CofA before 1 January 2017 ;
- 3) all helicopters first issued with an individual CofA after 31 December 2018.

*b*) The operator shall have a system to :

- 1) collect the data including system generated alerts ;
- 2) analyze and determine component serviceability ; *and*
- 3) respond to detected incipient failures.

**SPA. HOFO. 160. Equipment Requirements**

*a*) *The Operator shall comply with the following Equipment Requirements :*

1) Public Address ( PA ) System in helicopters used for CAT and Non-commercial operations with complex motor-powered helicopters ( NCC ) :

( i ) Helicopters with a maximum operational passenger seat configuration ( MOPSC ) of more than 9 shall be equipped with a PA system ;

(ii) Helicopters with an MOPSC of 9 or less need not be equipped with a PA system if the operator can demonstrate that the pilot's voice is understandable at all passengers' seats in flight.

2) Radio Altimeter

Helicopters shall be equipped with a radio altimeter that is capable of emitting an audio warning below a pre-set height and a visual warning at a height selectable by the pilot.

**b) Emergency Exits :**

All emergency exits, including crew emergency exits, and any door, window or other opening that is suitable for emergency egress, and the means for opening them shall be clearly marked for the guidance of occupants using them in daylight or in the dark. Such markings shall be designed to remain visible if the helicopter is capsized or the cabin is submerged ;

**c) Helicopter Terrain Awareness Warning System ( HTAWS )**

Helicopters used in CAT operations with a maximum certificated take-off mass of more than 3 175 kg or a MOPSC of more than 9 and first issued with an individual CofA after 31 December 2018 shall be equipped with an HTAWS that meets the requirements for Class A equipment as specified in an acceptable standard.

**SPA. HOFO. 165. Additional Procedures and Equipment for Operations in a Hostile Environment**

**a) Life Jackets :**

Approved life jackets shall be worn at all times by all persons on board unless integrated survival suits that meet the combined requirement of the survival suit and life jacket are worn ;

**b) Survival Suits :**

All passengers on board shall wear an approved survival suit :

- 1) when the weather report or forecasts available to the Commander / PIC indicate that the sea temperature will be less than plus 10 °C during the flight ; *or*
- 2) when the estimated rescue time exceeds the calculated survival time ; *or*
- 3) when the flight is planned to be conducted at night.

**c) Emergency Breathing System :**

All persons on board shall carry and be instructed in the use of emergency breathing systems ;

**d) Life Rafts :**

- 1) all life rafts carried shall be installed so as to be usable in the sea conditions in which the helicopter's ditching, flotation, and trim characteristics were evaluated for certification ;
- 2) all life rafts carried shall be installed so as to facilitate their ready use in an emergency ;
- 3) the number of life rafts installed :
  - (i) in the case of a helicopter carrying less than 12 persons, at least one life raft with a rated capacity of not less than the maximum number of persons on board ; *or*
  - (ii) in the case of a helicopter carrying more than 11 persons, at least two life rafts, sufficient together to accommodate all persons capable of being carried on board and, if one is lost, the remaining life raft(s) having the overload capacity sufficient to accommodate all persons on the helicopter.
- 4) each life raft shall contain at least one survival emergency locator transmitter ( ELT (S) ) ;  
*and*

5) each life raft shall contain life-saving equipment, including means of sustaining life, as appropriate to the flight to be undertaken.

**e) *Emergency Cabin Lighting:***

The helicopter shall be equipped with an emergency lighting system with an independent power supply to provide a source of general cabin illumination to facilitate the evacuation of the helicopter ;

**f) *Automatically Deployable Emergency Locator Transmitter ( ELT (AD) ) :***

The helicopter shall be equipped with an ELT ( AD ) that is capable of transmitting simultaneously on 121,5 MHz and 406 MHz ;

**g) *Securing of Non - jettisonable Doors :***

Non - jettisonable doors that are designated as ditching emergency exits shall have a means of securing them in the open position so that they do not interfere with the occupants' egress in all sea conditions up to the maximum sea conditions required to be evaluated for ditching and flotation ;

**h) *Emergency Exits and Escape Hatches :***

All emergency exits, including crew emergency exits, and any door, window or other opening suitable to be used for the purpose of underwater escape shall be equipped so as to be operable in an emergency.

*i)* Notwithstanding ( *a* ), ( *b* ) and ( *c* ) above the operator may, based on a risk assessment, allow passengers, medically incapacitated at an offshore location, to partly wear or not wear life jackets, survival suits or emergency breathing systems on return flights or flights between offshore locations.

**SPA. HOFO. 170. Crew Requirements**

**a)** The operator shall establish :

- 1) criteria for the selection of flight crew members, taking into account the flight crew members' previous experience ;
- 2) a minimum experience level for a Commander / PIC intending to conduct offshore operations ; *and*
- 3) a flight crew training and checking program that each flight crew member shall complete successfully. Such program shall be adapted to the offshore environment and include normal, abnormal and emergency procedures, CRM, water entry and sea survival training.

**b) *Recency Requirements***

A pilot shall only operate a helicopter carrying passengers :

- 1) at an offshore location, as Commander or PIC, or Co - pilot, when he or she has carried out in the preceding 90 days at least 3 take-offs, departures, approaches and landings at an offshore location in a helicopter of the same type or a Full Flight Simulator ( FFS ) representing that type ; *or*
- 2) by night at an offshore location, as Commander or PIC, or Co - pilot, when he / she has carried out in the preceding 90 days at least 3 take-offs, departures, approaches and landings at night at an offshore location in a helicopter of the same type or an FFS representing that type. The 3 take-offs and landings shall be performed in either multi - pilot or single - pilot operations, depending on the operation to be performed.

***c) Specific Requirements for CAT:***

- 1) the 90 - day period presented in points (b)(1) and (2) above may be extended to 120 days as long as the pilot undertakes line flying under the supervision of a Type Rating Instructor or Examiner (TRI / TRE).
- 2) if the pilot does not comply with the requirements in (1), he /she shall complete a training flight in the helicopter or an FFS of the helicopter type to be used, which shall include at least the requirements described in (b)(1) and (2) before he /she can exercise his or her privileges.

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