##### Compliance Document for Helicopter Operations in accordance with SPA.HOFO.105 Approval for helicopter offshore operations

Prior to engaging in operations under Subpart SPA.HOFO, an operator shall have been issued a specific approval by the CAA.

To obtain such an approval, the operator shall apply to the competent authority as specified in SPA.GEN.105, and shall demonstrate compliance with the requirements of Subpart SPA.HOFO by completion of this Compliance Document. The operator shall, prior to performing operations from a Member State other than the Member State that issued the approval inform the competent authorities in both Member States of the intended operation. GM material must be considered in the application.

**‘offshore operation’** means a helicopter operation that has a substantial proportion of any flight conducted over open sea areas to or from an offshore location;

*(GM) OFFSHORE OPERATIONS*

*An offshore operation is considered to be a helicopter flight for the purpose of:*

*(a) support of offshore oil, gas and mineral exploration, production, storage and transport;*

*(b) support to offshore wind turbines and other renewable-energy sources; or*

*(c) support to ships including sea pilot transfer.*

**‘Offshore location’** means a location or destination on a fixed or floating offshore structure or vessel, and includes helidecks, helicopter hoist operations areas and operating sites.

*(GM) OFFSHORE LOCATION*

*‘Offshore location’ includes, but is not limited to:*

*(a) helidecks;*

*(b) shipboard heliports; and*

*(c) winching areas on vessels or renewable-energy installations.*

**‘helideck’** means a FATO located on a floating or fixed offshore structure;

*(GM) HELIDECK*

*The term ‘helideck’ includes take-off and landing operations on ships and vessels and covers ‘shipboard*

*final approach and take off areas (FATOs).*

**The requirements SPA.HOFO.100 Helicopter offshore operations (HOFO) apply to:**

(a) a commercial air transport operator holding a valid AOC in accordance with Part-ORO;

(b) a specialised 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.GEN.105 Application for a specific approval** | (a) The operator applying for the initial issue of a specific approval shall provide to the competent authority 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 competent authority:  (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 Regulation (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). |
| Name, address and mailing address of the applicant; |  |
| Description of the intended operation. | To include whether CAT/SPO/NCC  Oil and Gas, windfarms, fixed and/or unstable decks |
| An applicant for an Approval under SPA.HOFO.105 shall complete this compliance document and identify in the ‘Means of Compliance Column’ where and how each requirement has been met in the Applicant’s procedures. Particular points to note have been highlighted in blue | |

| **Item** | Requirement | **Means of Compliance** |
| --- | --- | --- |
| **SPA.HOFO.110**  **Operating procedures** | See rule |  |
| **SPA.HOFO.110(b)(5)**  **Operating procedures** | The operator shall ensure that:  pilots make optimum use of the automatic flight control systems (AFCS) throughout the flight; | State the origin of the Operator’s source material; ie Manufacture recommended, FCOM or best practice. |
| **SPA.HOFO.110(b)(6)**  **Operating procedures** | The operator shall ensure that:  specific offshore approach profiles are established, including stable approach parameters and the corrective action to be taken if an approach becomes unstable; |  |
| **AMC1 SPA.HOFO.110(a)**  **Operating procedures** | RISK ASSESSMENT  See AMC |  |
| **AMC1 SPA.HOFO.110(b)(1)**  **Operating procedures** | OPERATIONAL FLIGHT PLAN  See AMC |  |
| **AMC1 SPA.HOFO.110(b)(2)**  **Operating procedures** | PASSENGER BRIEFING  See AMC |  |
| **AMC1.1 SPA.HOFO.110(b)(2) Operating procedures** | PASSENGER BRIEFING  See AMC |  |
| **AMC1 SPA.HOFO.110(b)(5)**  **Operating procedures** | AUTOMATIC FLIGHT CONTROL SYSTEM (AFCS)  See AMC  To ensure competence in manual handling of the helicopter, the operator should provide instructions to the flight crew in the operations manual (OM) under which circumstances the helicopter may be operated in lower modes of automation. Particular emphasis should be given to flight in instrument meteorological conditions (IMC) and instrument approaches. | Particular reference to SOPs for the use of automation should be evident. |
| **SPA.HOFO.115**  **Use of offshore locations** | See rule |  |
| **AMC1 SPA.HOFO.115**  **Use of offshore locations** | GENERAL  See AMC |  |
| **SPA.HOFO.120 Selection of aerodromes and operating sites** | See rule |  |
| **AMC1 SPA.HOFO.120**  **Selection of aerodromes and operating sites** | COASTAL AERODROME  See AMC |  |
| **AMC2 SPA.HOFO.120**  **Selection of aerodromes and operating sites** | OFFSHORE DESTINATION ALTERNATE AERODROME  See AMC |  |
| **SPA.HOFO.125**  **Airborne radar approaches (ARAs) to offshore locations — CAT operations** | See rule |  |
| **AMC1 SPA.HOFO.125**  **Airborne radar approach (ARA) to offshore locations** | Note: alternative approach procedures using original equipment manufacturer (OEM)-certified approach systems are not covered by this AMC.  GENERAL  See AMC |  |
| **SPA.HOFO.130**  **Meteorological conditions** | See rule | Not below 1500m VFR in the UK (not prescribed) |
| **SPA.HOFO.135**  **Wind limitations for operations to offshore locations** | See rule |  |
| **SPA.HOFO.140**  **Performance requirements at offshore locations** | See rule.  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. | An Exposure Approval under CAT.POL.H.305 is also required.  The operator should confirm the Exposure Approval is held for each type operated under HOFO and that take-off and landing procedures are published |
| **AMC1 SPA.HOFO.140**  **Performance requirements — take-off and landing at offshore locations** | FACTORS  See AMC |  |
| **SPA.HOFO.145**  **Flight data monitoring (FDM) system** | See rule  (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. | CAP 739 as amended for offshore operations |
| **AMC1 SPA.HOFO.145**  **Flight data monitoring (FDM) programme** | FDM PROGRAMME  See AMC |  |
| **SPA.HOFO.150**  **Aircraft tracking system** | See rule  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. |  |
| **AMC1 SPA.HOFO.150**  **Aircraft tracking system** | GENERAL  See AMC |  |
| **SPA.HOFO.155**  **Vibration health monitoring (VHM) system** | See rule  (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) analyse and determine component serviceability; and  (3) respond to detected incipient failures. | Applicants must have completed a VHM Compliance Document for each type operated.    The Compliance Document and VHM Approval document may be referenced here.  ANO 2016 Article 119(8) requirements for a VHM system shall remain in place until the adoption of HOFO. |
| **AMC1 SPA.HOFO.155 Vibration health monitoring (VHM) system** | GENERAL  See AMC | Applicants must have completed a VHM Compliance Document for each type operated |
| **SPA.HOFO.160 Equipment requirements** | See rule |  |
| **SPA.HOFO.165 Additional procedures and equipment for operations in a hostile environment** | See rule  Note requirement for  (b) Survival suits  All passengers on board shall wear an approved survival suit:  (1) when the weather report or forecasts available to the commander/pilot-in-command 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. |  |
| **AMC1 SPA.HOFO.165(c) Additional procedures and equipment for operations in hostile environment** | EMERGENCY BREATHING SYSTEM (EBS)  See AMC  The EBS of SPA.HOFO.165(c) should be an EBS system capable of rapid underwater deployment. |  |
| **AMC1 SPA.HOFO.165(d) Additional procedures and equipment for operations in hostile environment** | INSTALLATION OF THE LIFE RAFT  See AMC |  |
| **AMC1 SPA.HOFO.165(h) Additional procedures and equipment for operations in a hostile Environment** | EMERGENCY EXITS AND ESCAPE HATCHES  See AMC and  GM1 SPA.HOFO.165(h) SEAT ALLOCATION  In order for all passengers to escape from the helicopter within an expected underwater survival time of 60 sec in the event of capsize, the following provisions should be made:  (a) there should be an easily accessible emergency exit or suitable opening for each passenger;  (b) an opening in the passenger compartment should be considered suitable as an underwater escape facility if the following criteria are met:  (1) the means of opening should be rapid and obvious;  (2) passenger safety briefing material should include instructions on the use of such escape facilities;  (3) for the egress of passengers with shoulder width of 559 mm (22 in.) or smaller, a rectangular opening should be no smaller than 356 mm (14 in.) wide, with a diagonal between corner radii no smaller than 559 mm (22 in.), when operated in accordance with the instructions;  (4) non-rectangular or partially obstructed openings (e.g. by a seat back) should be capable of admitting an ellipse of 559 mm x 356 mm (22 in. x 14 in.); and  (5) for the egress of passengers with shoulder width greater than 559 mm (22 in.), openings should be no smaller than 480 mm x 660 mm (19 in. x 26 in.) or be capable of admitting an ellipse of 480 mm x 660 mm (19 in. x 26 in.);  (c) suitable openings and emergency exits should be used for the underwater escape of no more than two passengers, unless large enough to permit the simultaneous egress of two passengers side by side:  (1) if the exit size provides an unobstructed area that encompasses two ellipses of size 480 mm x 660 m (19 in. x 26 in.) side by side, then it may be used for four passengers; and  (2) if the exit size provides an unobstructed area that encompasses two ellipses of size 356 mm x 559 mm (14 in. x 22 in.) side by side, then it may be used for four passengers with shoulder width no greater than 559 mm (22 in.) each; and  (d) passengers with shoulder width greater than 559 mm (22 in.) should be identified and allocated to seats with easy access to an emergency exit or opening that is suitable for them. |  |
| **AMC1 SPA.HOFO.165(i) Additional procedures and equipment for operations in a hostile environment** | MEDICALLY INCAPACITATED PASSENGER  See AMC |  |
| **SPA.HOFO.170 Crew requirements** | See rule  (b) *Recency requirements*  A pilot shall only operate a helicopter carrying passengers:  (1) at an offshore location, as commander or pilot-in-command, 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 pilot-in-command, 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. |  |
| **AMC1 SPA.HOFO.170(a) Crew requirements** | FLIGHT CREW TRAINING AND CHECKING  See AMC | Inclusion of OSD material ( TASE, FCOMS etc) |
| **NCC** | | |
| **AMC1 NCC.IDE.H.235**  **All helicopters on flight over water — ditching** | The considerations of AMC1 SPA.HOFO.165(d) should apply in respect of emergency flotation equipment. |  |
| **AMC1 NCO.IDE.H.185**  **All helicopters on flights over water — ditching** | EMERGENCY FLOTATION EQUIPMENT  The considerations of AMC1 SPA.HOFO.165(d) should apply in respect of emergency flotation  equipment. |  |
| **SPO** | | |
| **AMC1 SPO.IDE.H.203**  **All helicopters on flights over water — ditching** | EMERGENCY FLOTATION EQUIPMENT  The considerations of AMC1 SPA.HOFO.165(d) should apply in respect of emergency flotation  equipment. |  |

##### Compliance Statement for Helicopter Operations in accordance with SPA.HOFO.105 Approval for helicopter offshore operations

**Operator:** **Reference:\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**AOC: *CAA use only***

**Aircraft:**

**Supporting Documentation:**

**1.**

**2.**

**3.**

**4.**

**5**

|  |  |  |  |
| --- | --- | --- | --- |
| **For the Operator** | Name | Signature | date |
| CAA use only | | | |
| Airworthiness Surveyor | Name | Signature | date |
| **Flight Operations Inspector** | Name | Signature | date |