



EASA

European Aviation Safety Agency

EASA helicopter operations rulemaking

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Helicopter Offshore Operations (published - applicable 7.2018)

➤ **Transfer of material from Part-CAT to Part-SPA**

- Prior approval required
- Offshore rules regarding Flight Preparation, Operating Minima and Alternates to be extended to NCC operations and SPO operations

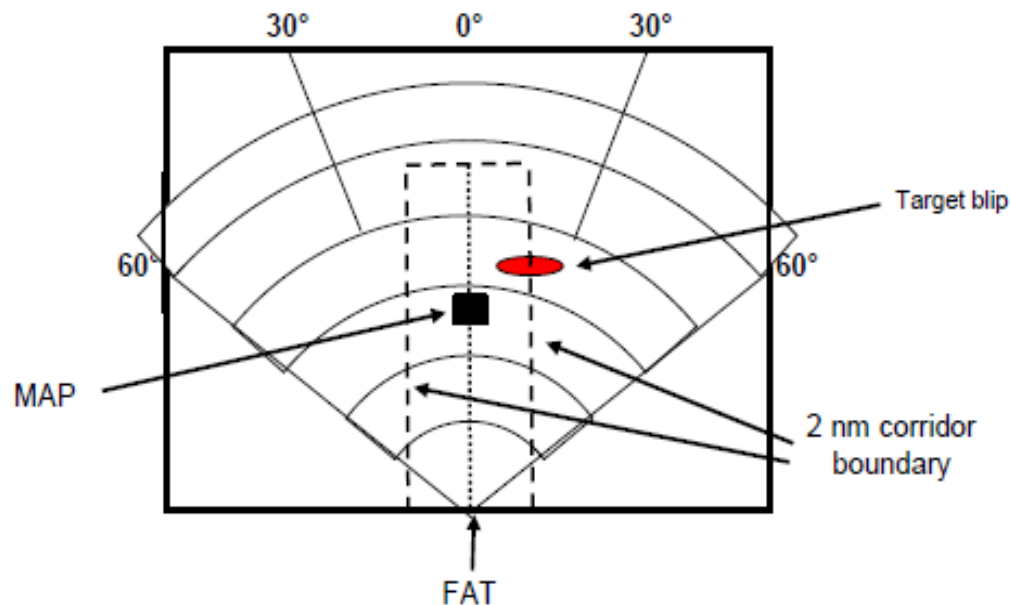
➤ **New requirements**

- Operating procedures and crew training
 - increased focus on use of automation and monitoring
 - offshore recent experience
- Survivability
 - use of EBS that can be deployed underwater
 - availability of suitable openings for underwater escape
- Helicopter TAWS forward fit (1.2019)
- Flight Data Monitoring (1.2019)
- Vibration Health Monitoring (1.2019)



➤ Offshore approaches

- Vertical separation with the sea / horizontal separation with obstacles
- Combining GNSS with Radar will allow safer horizontal separation
- GNSS offset approaches with radar confirmation are being discussed



➤ On-shore approaches

- Ensure that Point-in-Space approaches remain easy to design



Rulemaking (Air Operations): HHO, HEC operations: Opinion to be published 12.2016

- **Personnel Carrying Device Systems (PCDS)**
 - Simple PCDS no longer required to be airworthiness approved





HEC, HESLO operations: Opinion to be published 12.2016



➤ HEC/ HESLO

- HEC/HESLO categories to be simplified
- HEC/HESLO instructor criteria to be simplified
- Increased focus on flight training



HESLO TRAINING

	Current	Proposed
Experience required	Before starting training	Before end of training
Theoretical training	Yes	Yes
Practical training	Not required	<ul style="list-style-type: none">• Dual control• Supervision from cockpit,• Supervision from ground
Checking	Not required	Yes (but no recurrent checking)
Heslo instructor	<ul style="list-style-type: none">• 500 hours in the HESLO category• Experienced as FI/TRI	<ul style="list-style-type: none">• 500 hours Heslo + Qualified and 10 hours in the HESLO category• Experienced as SPO instructor prior to 21/4/17 <p>OR</p> <p>‘teaching and learning’ module of FI/TRI</p>



HESLO CATEGORIES

	Current	Proposed
HESLO 1	Short line <20m	Short line <20m
HESLO 2	Long line >20m	Long line >20m
HESLO 3	Logging	Specialised HESLO Long list of activities...
HESLO 4	Construction	Advanced HESLO tower erecting, wire stringing, disassembly of masts and tower
HESLO 5	Heavy lift (>1,5T)	Deleted

HESLO 1 and 2: training can now take place in short succession

HESLO 1 and 2: minimum practical training defined



Rulemaking (Air Operations): Under development

- **FUEL regulations (NPA consultation closed since 15 November)**
 - Fuel broadcasts to be made ICAO compliant
 - Procedures for refuelling with rotors turning
 - alignment with future ICAO draft amendment is foreseen
 - Clarifications
 - small day VFR operations and HEMS alleviations have been re-formulated
 - increased consistency between CAT-SPO-NCC-NCO rules
- **Last minute comments can still be sent to me by email until 15.12.2016!**



- New crew training options, for interested operators **using FSTDs** and **operating multi-crew** with complex helicopters
 - adapt training and checking to operators specific needs and risks.
 - better use of simulator time
 - flexibility in training, for the use of new technologies

- **Allows to increase training focus on competencies and non-technical skills**





- EBT is initially aimed at offshore operators, however EBT can also be beneficial to HEMS, IFR and more operations
- Baseline training and checking will remain for those not interested in EBT
- Helicopter challenges
 - no existing IATA data report for EBT
 - no EBT ICAO Manual (ICAO doc 9995)
 - helicopter specifics not to be left behind



- Concept paper to be published Feb 2017
 - EBT methodology
- Data set to be published April 2017 to support Helicopter EBT
 - previous safety reports to be used (EHSAT...)
 - helicopter generations to be defined
 - helicopter pilot competencies to be defined
 - LOSA, FDM, accident/incident analysis focused on competencies, pilot survey.
- Regulatory material to be developed 2017-2019
- Rulemaking task will also include a review of ORO.FC



- HEMS Terms of Reference have been reissued
- 4 focused consultation groups to be put in place
 - mountain operations
 - Public Interest Sites
 - HEMS safety in a degraded visual environment
 - Part-145 Certificate of Release to Service of HEMS equipment (Hoist...) by HEMS Technical Crew Members
- NPA to be published Q4/2017



➤ **Single-engine Helicopter performance**

- Approvals to operate without safe forced landing areas to be assessed also for piston-engine helicopters, when the engine reliability target is met
- Single-engine helicopter operations over congested hostile environment to be assessed

➤ **Helicopter TAWS**

- Impact assessment has been published
- Rulemaking programme 2017/2021 to include a HTAWS rulemaking task
- H-TAWS retrofit requirements will be considered for offshore operations
- H-TAWS requirement will be considered for CAT with big helicopters
- ToRs proposed to be published Q4/2018



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Thank you for your attention

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