

Human External Cargo (HEC) Personnel Carrying Device System (PCDS)

ICAR 2019, Zakopane

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PCDS





Simple vs Complex PCDS





History: Certification Memorandum

- CM-CS-005 published in December 2014
- CM-CS-005 principles
 - Definition of « simple PCDS » vs « complex PCDS »
 - Addresses simple PCDS only
 - Approval of simple PCDS as Minor change
 - Reliance on EU standards (EN) for simple PCDS
 - Directive (EC) 89/686/EEC (Personal Protective Equipment) superseded by Regulation (EU) 2016/425
 - Directive (EC) 2006/42/EC (Machinery Directive)



Certification Memorandum Helicopter External Loads Personnel Carrying Device System

EASA CM No.: CM-CS-005 Issue 01 issued 08 December 2014
Regulatory requirement(s): CS 27/29.865

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History: Certification Memorandum

- CM-CS-005 approach for simple PCDS
 - Simple design, non-rigid (tailored to textile devices)
 - No more than 2 external persons
 - Instructions for Continued Airworthiness (ICA)
 - Helicopter hook/PCDS compatibility
 - Provision for hoist operator retaining system
 - Exoneration from some CS-27/29.865 requirements, eg fatigue evaluation



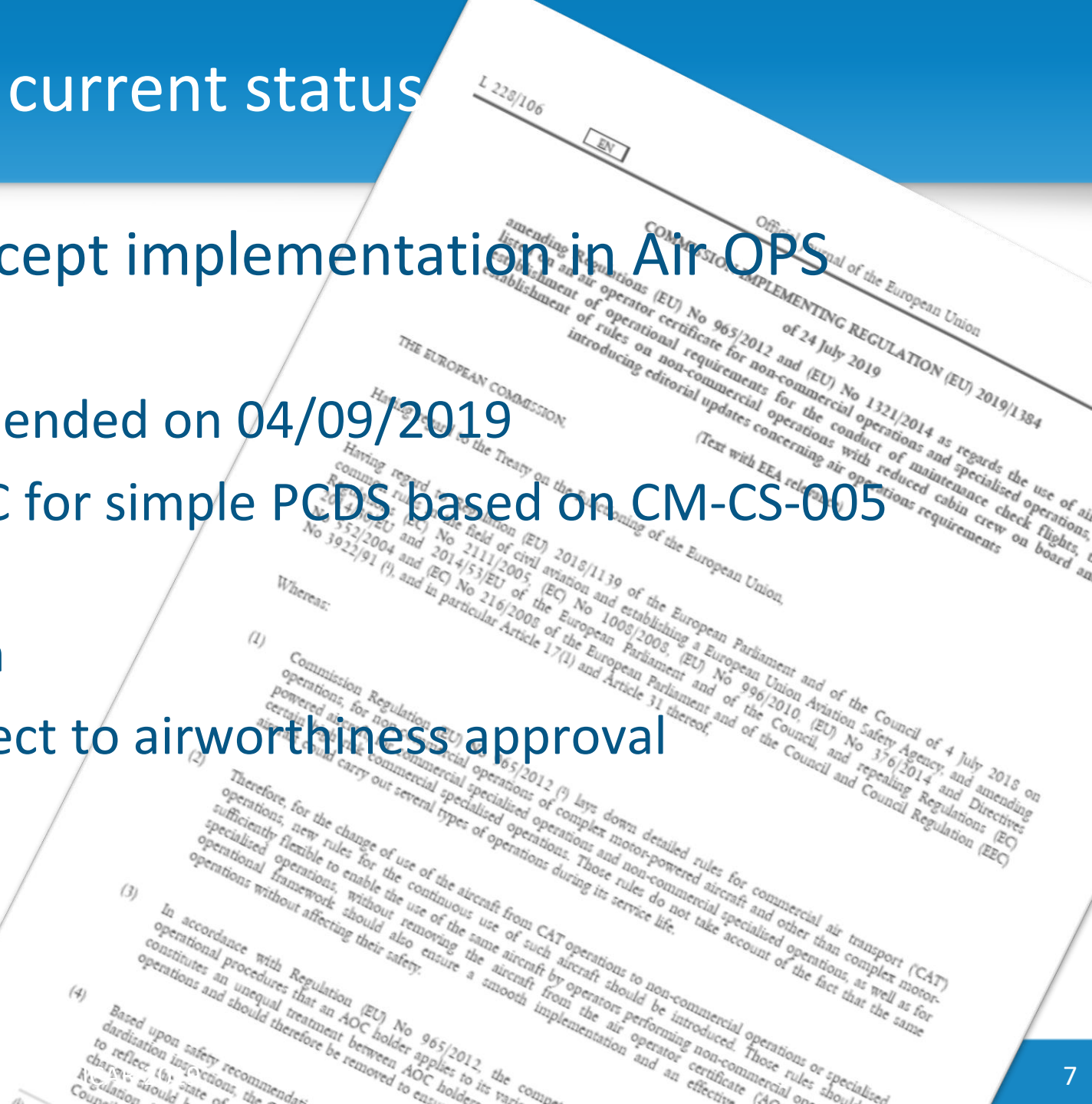
- Upon applicant's request

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PCDS approval route – current status

- Simple/complex PCDS concept implementation in Air OPS regulation:
 - Air OPS rules have been amended on 04/09/2019
 - OPS requirements and AMC for simple PCDS based on CM-CS-005 principles
 - AMC will be published soon
 - Complex PCDS remain subject to airworthiness approval





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