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

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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) 2006/42/EC (Machinery Directive)
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
PCDS approval route – current status

➤ Simple/complex PCDS concept implementation in CS: CS-27/29 Amdt 5 (June 2018)
➤ Change of CS-27/29.865 rule
➤ Creation of AMC 27/29.865, retaining provisions of CM-CS-005
➤ Simple PCDS airworthiness approval
  ➤ no longer mandatory, but
  ➤ still possible
    ➤ Based on CM-CS-005 provisions
    ➤ If required by applicable operating rule, or
    ➤ Upon applicant’s request
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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