



**EASA**  
European Aviation Safety Agency

# **Product Certification and Design Organisation Approval Workshop**

**22<sup>nd</sup> -23<sup>rd</sup> November 2016**

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TE.GEN.00409-001



**EASA**  
European Aviation Safety Agency

# Rulemaking activities affecting Part-21 – an update

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**22 November 2016**

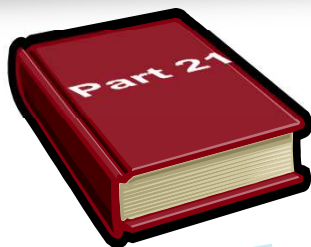
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# Current status Part-21



## COMMISSION REGULATION (EU) No 748/2012

### COMMISSION REGULATION (EU) No 7/2013

- ✓ Implementation of CAEP/8

### COMMISSION REGULATION (EU) No 69/2014

- ✓ Operational Suitability Data (OSD)

### COMMISSION REGULATION (EU) No 2015/1039

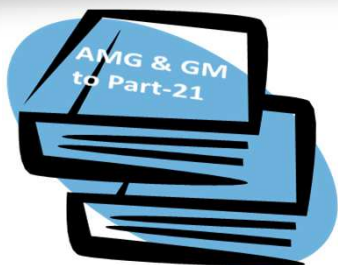
- ✓ Flight Testing

### COMMISSION REGULATION (EU) No 2016/5

- ✓ Implementation of CAEP/9



# Current status AMC/GM to Part-21



## AMC & GM to Part 21, Issue 2

### ED Decision 2012/20/R (30.10 2012)

Amendment 1: ED Decision 2013/001/R (23.01.2013)

- ✓ Implementation of CAEP/8

Amendment 2: ED Decision 2014/007/R (31.01.2013)

- ✓ Operational Suitability Data (OSD)

Amendment 3: ED Decision 2015/016/R (09.07.2015)

- ✓ CS for Standard Changes and Standard Repairs (CS-STAN)

Amendment 4: ED Decision 2015/026/R (10.11.2015)

- ✓ Flight testing

Amendment 5: ED Decision 2016/003/R (12.01.2016)

- ✓ Implementation of CAEP/9 recommended amendments

Amendment 6: ED Decision 2016/007/R (26.04.2016)

- ✓ Changes to operational suitability data (OSD)



# Upcoming amendments to Part-21



## Opinion 07/2016

### Embodiment of level of involvement (LoI) into Part-21

- Introduction of the risk-based approach to the Agency's verification process in product certification (Level of Involvement)
- Removal from Section A to Section B of Part-21 requirements applicable to the Agency
- Alignment with the Basic Regulation regarding the TC basis (support to use of deviations, ESF, notifications)
- Text streamlining, consistency issues, corrections...

- Adoption by written procedure expected in the coming months
- Foreseen applicability: February 2018



# Upcoming amendments to Part-21



## Opinion 12/2016

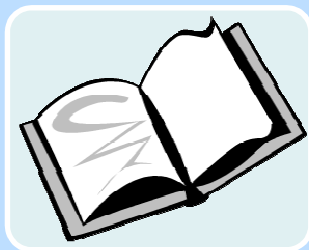
### Development of an Ageing aircraft structure plan

- Mitigation of safety risks associated with 'ageing aircraft' issues, i.e. catastrophic events due to fatigue and corrosion
- Mainly proposing amendment to Regulation (EU) 640/2015, Part-26
- But also proposing inclusion of necessary links in Part-21 + Part-M

- Under discussion by the Commission with the Member States (EASA Committee)
- Legislative package together with 3 other opinions issued by EASA in 2016 (thermal acoustic insulation material, seat crashworthiness and halon)
- Adoption possibly Q3 or Q4/2017



# Ongoing RM tasks affecting Part-21



## RMT.0262 Embodiment of LoI into Part-21: Phase 2 (AMC/GM material)

- Development of further AMC/GM to support application of amendment to Part-21 proposed via opinion 7/2016
- Also based on first experience gained during advanced application of LOI by some volunteering companies
- NPA probably Q2/2017

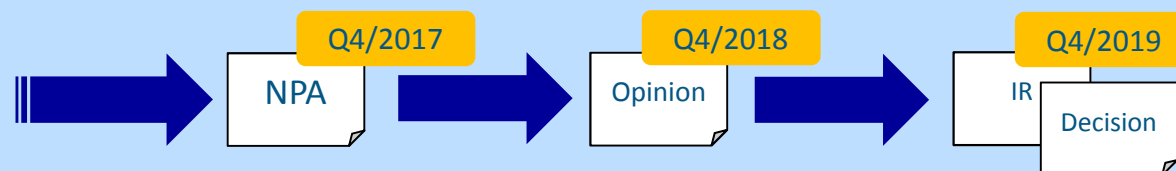


# Ongoing RM tasks affecting Part-21



## RMT.0251 Consistent SMS rules for design, manufacturing and maintenance organisations (Phase 2)

- Implementation of ICAO Annex 19
- Affects Part-21 and Part-145; will assess the need for Part-147
- may consider industry SMS standards becoming AMC/GM
- Expected timeline







# Ongoing RM tasks affecting Part-21



## RMT.0689 PART-21 proportionality

- Objective: Provision of additional flexibility and simplification in Part-21 certification for GA that is proportionate to risks and meets acceptable safety levels
- Phase 1: amendment of forms and other improvements, where rules are affected NPA Q4/2016 or Q1/2017
- Phase 2: depending on the revision of the BR, task may be merged with general task to implement revised BR; timeline: 2 years after adoption of new BR

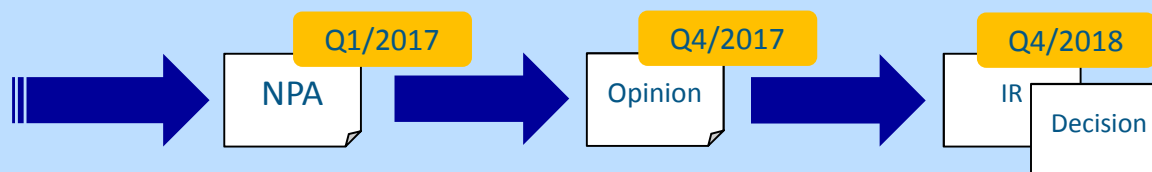


# Ongoing RM tasks affecting Part-21



## RMT.0018: Installation of parts and appliances released without an EASA Form 1 or equivalent

- Currently EASA Form 1 is always required except 'standard parts' and certain parts for ELA 1 or ELA 2 aircraft
- To address parts supplied but not produced by a POAH, e.g.:
  - ✓ 'non-aviation parts' incl. commercial parts (e.g. IES videos, screens...)
  - ✓ non-required 'mission' equipment (e.g. AF cameras)
  - ✓ OPS required parts (e.g. First aid kits ...)
- Risk-based (SMS) concept respecting proportionality criteria ( Safety risk significance in the design, Complexity and production process risks, Type of operation (e.g. leisure vs CAT))
- Expected timeline:





# Ongoing RM tasks affecting Part-21



## RMT.0252 Instruction for Continuing Airworthiness

- Objective: to establish clear requirements and responsibilities for all parties involved in the production of ICAs, their approval and their implementation
- Subtask 1, 2 and 4 include Definition and identification of ICA, Completeness of ICA, Availability of ICA (to owners , operators, MOAs etc.), Acceptance/approval of ICAs by other than the authority (affects EASA/FAA/TCCA)
- Also affects CAW Regulation
- Expected timeline:



- Subtask 5: Certification Maintenance Requirements (CS-25) will be concluded Q1/2017

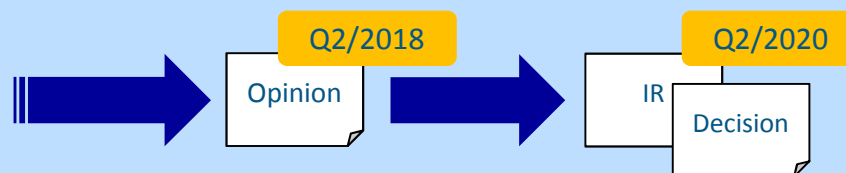


# Ongoing RM tasks affecting Part-21



## RMT.0278 Importing of aircraft from other regulatory system and Part-21 Subpart H review

- Issuance of ARC and CofA to aircraft entering the common EU civil aviation system from outside:
  - ✓ Imported non-EU/EASA A/C
  - ✓ EU state aircraft
  - ✓ EU aircraft re-entering after they lost valid CofA or ARC
- Identification of documents, approvals, inspections and other maintenance tasks needed
- Also affects Part-M
- Expected timeline:





# Ongoing RM tasks affecting Part-21



## RMT.0513 and RMT.0514 Implementation of the CAEP/10 amendments: Climate change, emissions and noise

- Updates to Annex 16 Volume II (engine emissions)
- New Volume III: CO2 emissions
- ToRs RMT.0513 and RMT.0514 published 13.6. 2016
- NPA scheduled early 2017
- CRD Q1-Q2/2017
- Opinion for the Basic Regulation and Part-21: Q2/2017
- Decision for CS-34, CS-36 and new CS-CO2: Q4/2018



# Ongoing RM tasks affecting Part-21



## RMT.0031 Regular update of AMC/GM to Part-21

- Update to GM 21.A.101 to align with the new revision FAA AC 21.101B
  - A result of the harmonized effort of the CIT (FAA, TCCA, EASA) in 2013-2015 to improve guidance for CPR
- Introduction of AMC to Appendix XII and 21.A.143, 21.A.243, 21.A.14(b), 21.A.112B(b) and 21.A.432B(b): Lead Flight Test Engineer (follow up of A-NPA on RMT.0583)
- Using direct publication procedure
- Expected timeline:





## Ongoing tasks



### RMT.0681 Alignment of implementing rules & AMC/GM with Regulation (EU) No 376/2014 (Occurrence reporting)

- Update of Part 21 to take into account new Reg. (EU) 376/2014 on the reporting, analysis and follow-up of occurrences.
- provide additional guidance on the application of just culture principles as part of an organisation's safety policy;
- amend AMC 20-8 to delete the list of reportable occurrences (overlaps with Reg. (EU) 2015/1018)





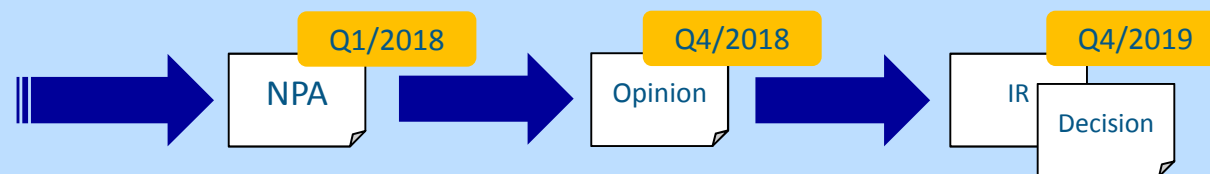
## Ongoing tasks



### RMT.0230 Unmanned aircraft system

Open and Specific categories covered by new regulation Part UAS.

Part-21 to be amended to take into account UAS peculiarities for higher risk category requiring a certification similar to a manned aircraft







# Outlook 2018 and beyond

- Commission proposal for a revision of the Basic Regulation
  - *COM(2015) 613 final* published December 2015
  - Currently under review by the Parliament and by the Council
    - On 10 Nov, the Transport Committee of the European Parliament voted in favour
  - Adoption in 2017 seems possible
  - RMP 2017-2021 plans for implementation of necessary changes caused to Part-21 as of beginning 2018



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**Thanks for your attention!**

**Questions?**

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