



EASA
European Aviation Safety Agency

Product Certification and Design Organisation Approval Workshop

22nd – 23rd November 2017

Your safety is our mission.

An agency of the European Union 

TE.GEN.00409-001



EASA

European Aviation Safety Agency

Rulemaking Activities Affecting Part-21: Update

Michael GERHARD

Regulations & Certification Policy Section Manager

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Overview

- Part-21 proposals submitted to the European Commission
 - Opinion 7/2016 (aspects other than LOI)
- Upcoming Part-21 proposals
 - Instructions for Continued Airworthiness
 - Safety Management Systems for DO and PO
 - Parts without Form 1
 - Importing of Aircraft
 - Drones
- Upcoming guidance material
 - GM 21.A.101
 - AMC to Appendix XII and 21.A.143, 21.A.243, 21.A.14(b), 21.A.112B(b) and 21.A.432B(b)
 - Introduction of proportionate AMC/GM for DO and PO designing / manufacturing low risk aircraft



Amendments proposed by Opinion 7/2016

► Contents of Opinion 7/2016

Level of Involvement

... we saw already this morning

Inconsistencies related to TC basis

New privilege to approve certain major changes/repair

Inconsistencies related to the structure

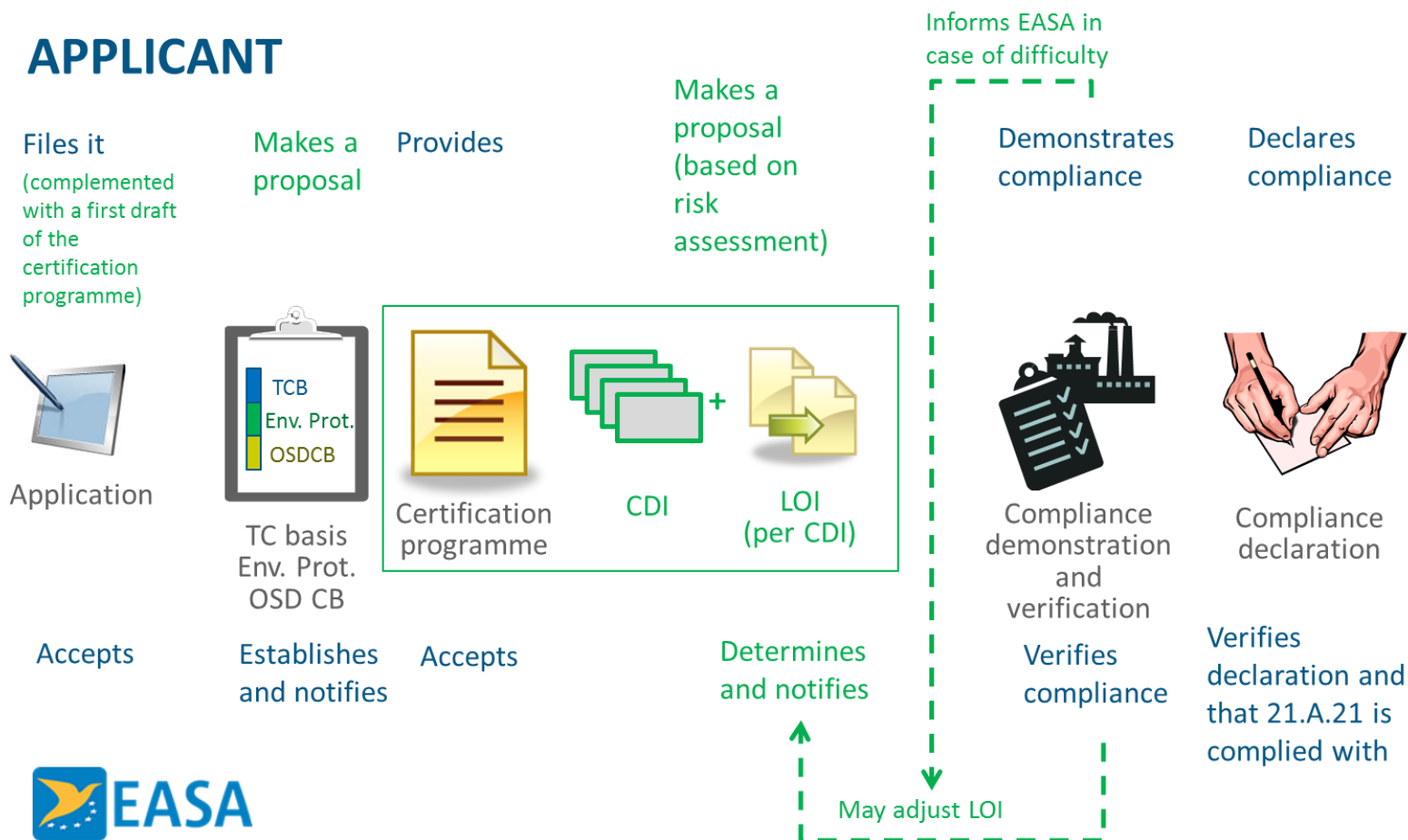
Other aspects

(proposals limited to Subparts B, D, E, J, M and O)



Amendments proposed by Opinion 7/2016

1. Certification Process





Amendments proposed by Opinion 7/2016

2. Establishment of the Cert'basis (alignment with the BR and MB Decision on product certification)

Current 21.A.17

- Applicable CS effective on date of application, unless
 - otherwise specified by Agency
 - later effective amendment of CS chosen by applicant
- Special Condition

- Art 20 BR also requires to include in CB “provisions for which an ELOS has been accepted” (ESF)
- ELOS only mentioned in 21.A.21 issuance of TC

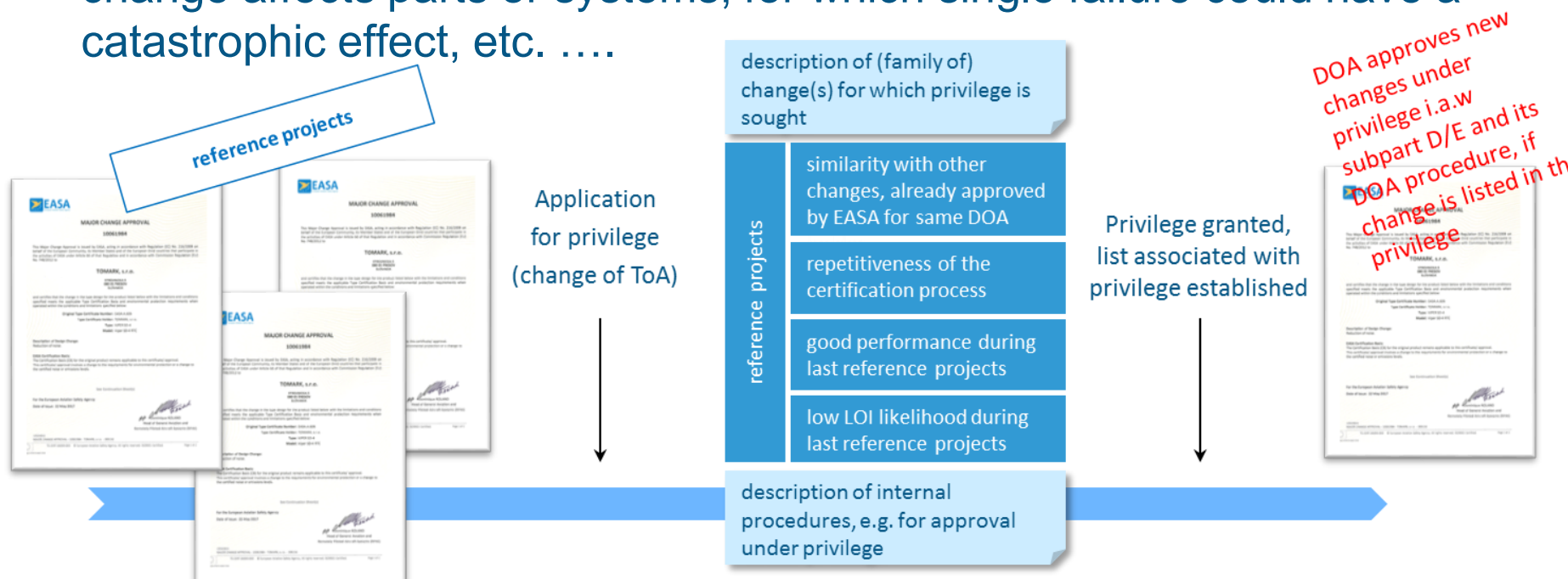


NEW 21.B.80

- Applicable CS effective on date of application, unless
 - later effective amendment chosen by applicant
 - Agency accepts alternative to CS with ESF
 - Agency accepts alternative means to demonstrate compliance with essential requirements of BR (deviation)
- Special condition

3. Possibility for DOAs to receive new privileges

- to approve *certain* major changes / repairs & STC (new 21.A.263 (c)(5), (8), (9))
- per change to its terms of approval
- not eligible in certain cases, e.g. significant change in terms of 21.A.101, change affects parts or systems, for which single failure could have a catastrophic effect, etc.



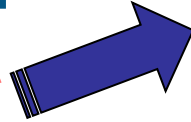


Amendments proposed by Opinion 7/2016

4. New obligation

What:

~~21.A.263(c)(3)~~



21.A.265(h)

... 'The technical content of this document is approved under the authority of the DOA ref. EASA. 21J.[XXXXX]'

Why:

to give certainty to the users about the approval status of the data and information.



How:

- 1) DOAH to identify the data and information that bear the above mentioned statement (e.g. ICA, SB, FM, OSD)
- 2) DOAH to propose relevant procedures to be accepted by EASA for the issuance of affected data and information



5. Reducing inconsistency in the structure

- see next slide -



Section A

21.A.14 Demonstration of capability

Changed

21.A.15 Application

Changed

21.A.16A Certification specifications

21.A.16B Special conditions

21.A.17A Type certification basis

21.A.17B OSD certification basis

21.A.18 Designation of applicable EP req. and CSs

21.A.20 Compliance with the TC, OSD basis and req.

Changed

21.A.21 Issue of a type certificate

Changed

21.A.23 Issue of a restricted type certificate

21.A.33 Inspections and tests

21.A.93 Application

Changed

21.A.95 Requirements for approval of minor changes

Changed

21.A.97 Requirements for approval of major changes

Changed

21.A.101 TC, OSD and EP bases for a major change

Changed

21.A.103 Issue of approval

21.A.113 Application for an STC

Changed

21.A.115 Issue of a STC

21.A.263 Privileges

Changed

21.A.265 Obligations

Changed

21.A.432C Application for a design repair

NEW

21.A.433 Repair design

Changed

21.A.435 Classification of repairs

Changed

21.A.437 Issue of a repair design approval

21.A.605 Data requirements

Changed

21.A.606 Issue of an ETSOA

Section B

21.B.70 Approval of changes to type certificate

Deleted

21.A.16A 21.B.70 Certification specifications

Changed

21.A.16B 21.B.75 Special conditions

Changed

21.A.17A 21.B.80 Type certification basis for an ⁺ certificate or restricted type certificate

Changed

21.A.17B 21.B.82 OSD certification basis for a TC or restricted TC

Changed

21.A.18 21.B.85 Designation of applicable EP req. and CS for a TC or restricted TC

Changed

21.B.100 Level of Involvement

NEW

21.A.21 21.B.103 Issue of a TC or restricted TC

Changed

21.B.105 TC basis, EP requirements OSD for a major change to a TC

NEW

21.A.103 21.B.107 Issue of approval of a change to a type certificate

Changed

21.B.109 TC, EP and OSD basis for an STC

NEW

21.A.115 21.B.110 Issuance of an STC

Changed

21.B.113 TC basis, env. prot. req. and OSD for a major change

NEW

21.A.437 21.B.115 Issue of a repair design approval

Changed

21.A.606 21.B.117 Issuance of an ETSOA

Changed



Upcoming Part-21 proposals

RMT.0252 Instructions for Continued Airworthiness

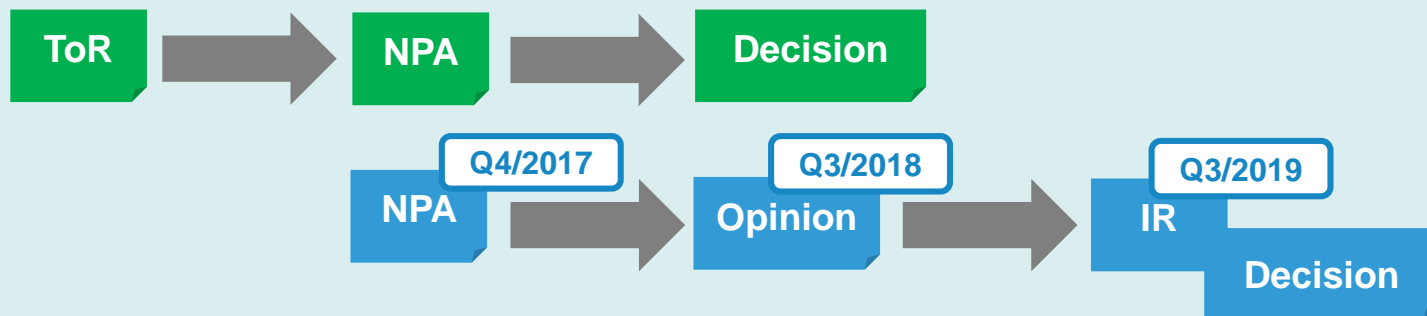
Objective: Establish clear requirements and responsibilities for all parties involved in the production of ICAs, their approval and their implementation.

- ▶ Definition and completeness of ICA (Subtask 1), availability of ICA (Subtask 2) and acceptance of ICA (Subtask 4).
- ▶ Certification maintenance requirements (Subtask 5) has been published.

Part-21

AMC/GM

CS-25





Upcoming Part-21 proposals

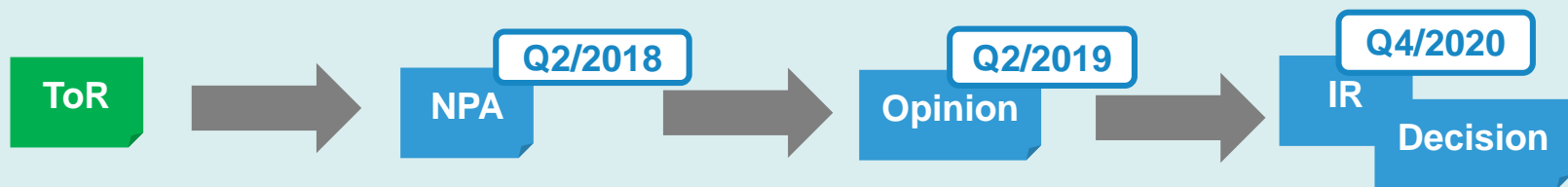
RMT.0251 (Phase 2) Embodiment of SMS

Objective: to amend Part-21 (and Part-145) to include SMS requirements, and related AMC/GM for design, production and maintenance organisations to align with ICAO Annex 19.

Part-21

CAW Reg.

AMC/GM





Upcoming Part-21 proposals

RMT.0018 Parts without Form 1



Objective: Introduction of proportional and flexible release and acceptance of parts.

The NPA will propose a regulatory change to allow that parts with lower criticality as identified by the TC holder, would not need an EASA Form 1 when used as spare part for installation during maintenance.

Part-21

CAW Reg.

AMC/GM





Upcoming Part-21 proposals

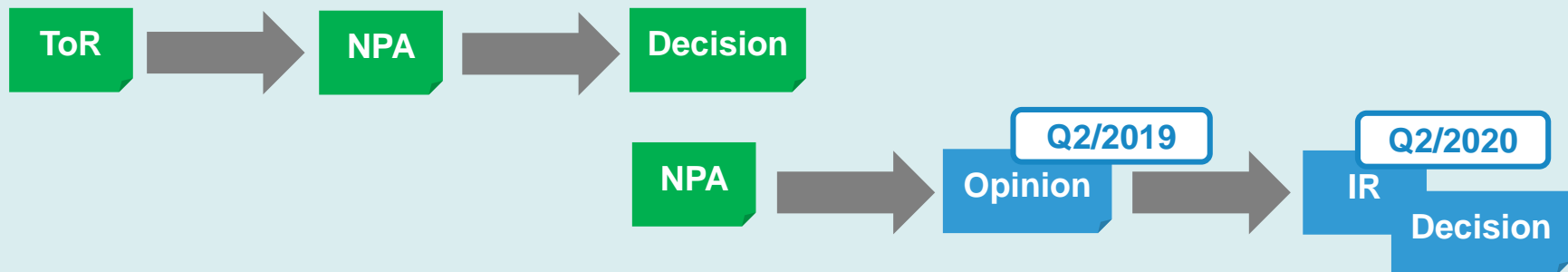
RMT.0278 Importing of aircraft from another regulatory system

Objective: Ensuring consistency of Part-21 and Part-M with respect to issuance of CofA/ARC for aircraft being imported from other regulatory systems (foreign registered aircraft or European aircraft not subject to Reg. 216/2008).

Part-21

CAW Reg.

AMC/GM

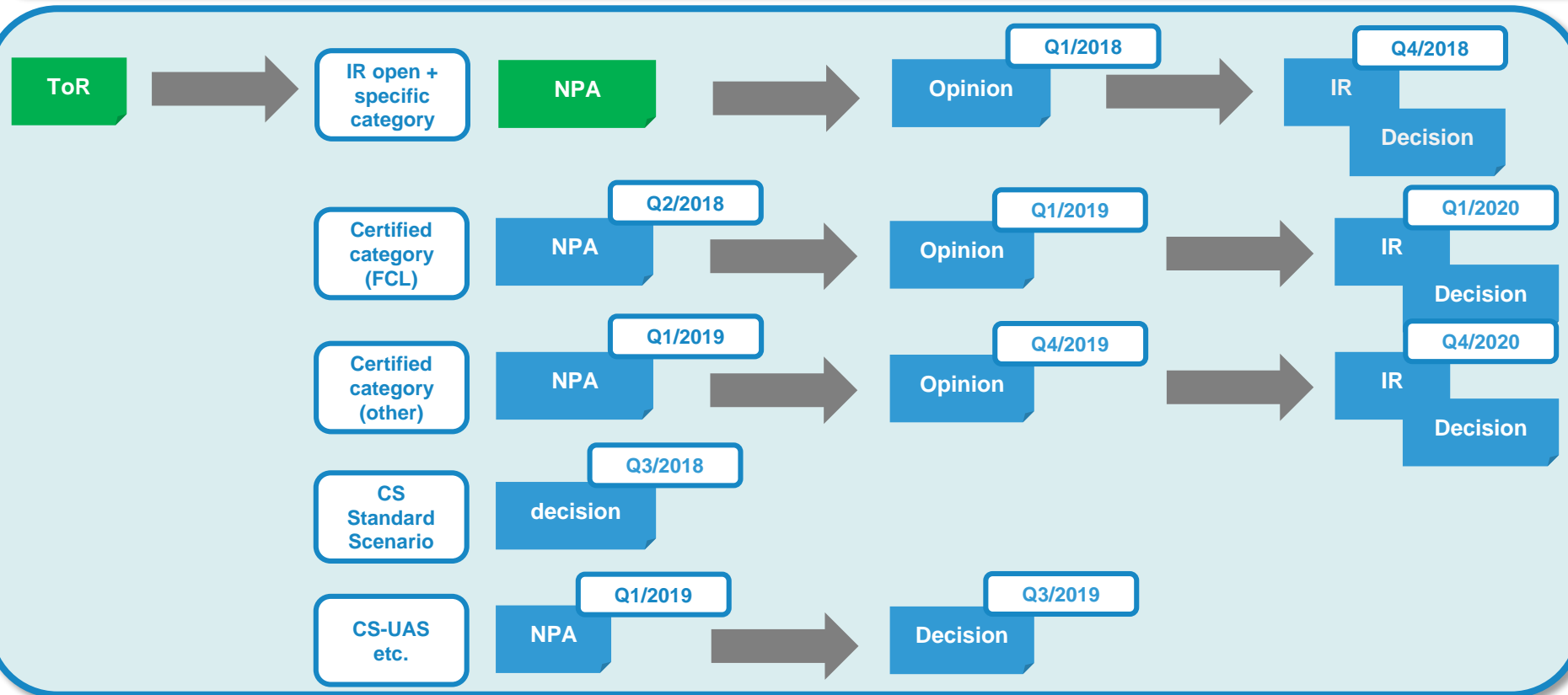




Upcoming Part-21 proposals

RMT.0230 Drones

Objective: Introduction of an (operation centric) regulatory framework for the operation of drones.





Upcoming Part-21 proposals

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

Objective:

- ▶ GM 21.A.101: Revision of the advisory material on the basis of the CIT work.
 - ▶ AMC to Appendix XII and 21.A.143, 21.A.243, 21.A.014(b), 21.A.112B(b) and 21.A.432B(b): Lead Flight Test Engineer (follow up of A-NPA on RMT.0583).
- for this cycle: using direct publication procedure -

AMC/GM





Upcoming Part-21 proposals



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; using accelerated procedure; focused consultation workshop took place 9th June, now preparing adoption of Part-21 AMC/GM amendments.

► 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.

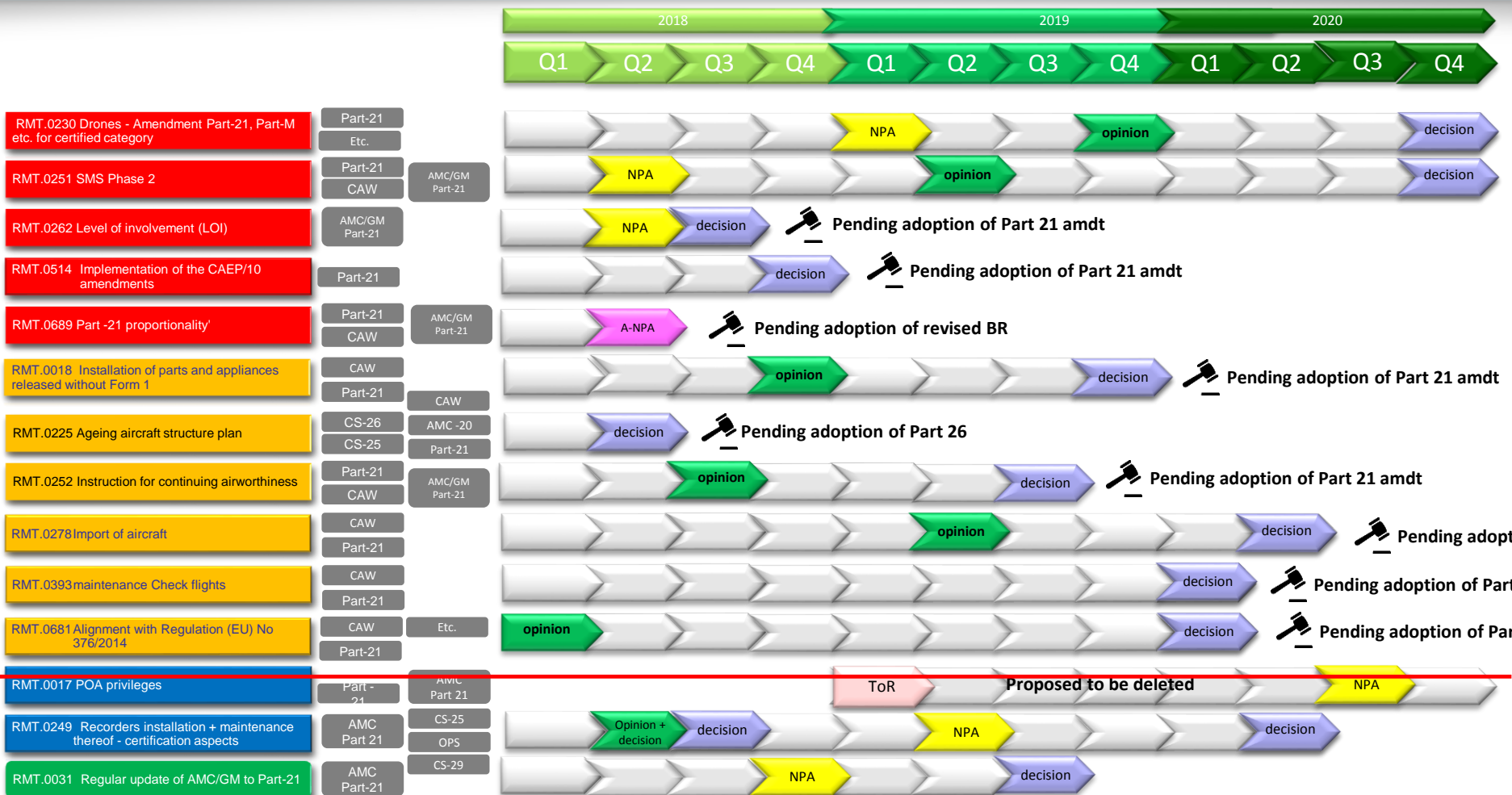
Part-21

AMC/GM





draft RMP 2018-2022: Part-21 RMTs





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Thank you for your attention!
Any questions?

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