



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

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22/Nov/2017

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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

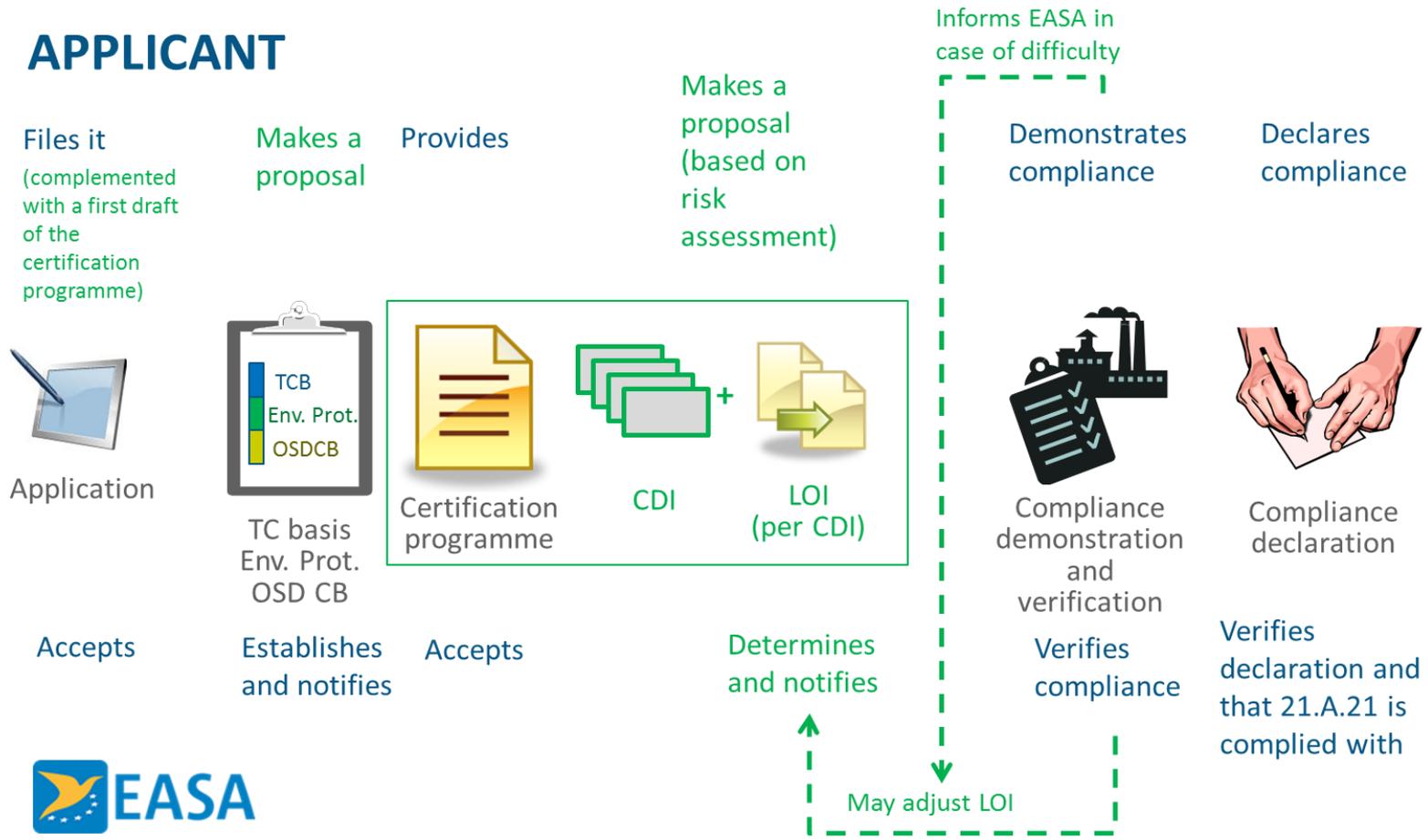
Other aspects

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



Amendments proposed by Opinion 7/2016

1. Certification Process



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

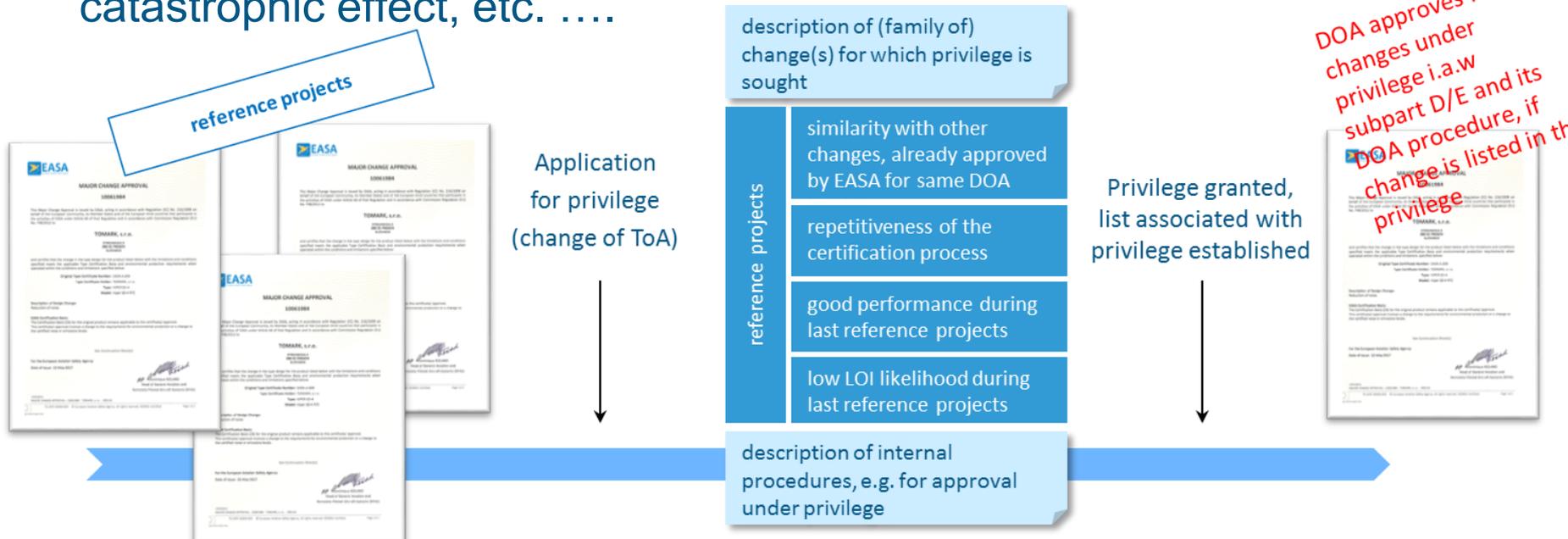
- Applicable CS effective on date of application, unless
 - later effective amendment chosen by applicant
 - Agency accepts alternative to CS with ESF
 - Agency accepts alternative means to demonstrate compliance with essential requirements of BR (deviation)
- Special condition



Amendments proposed by Opinion 7/2016

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.

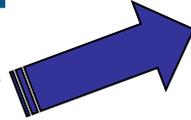




4. New obligation

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**

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 **STC** 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 **TC** **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 **TC** **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

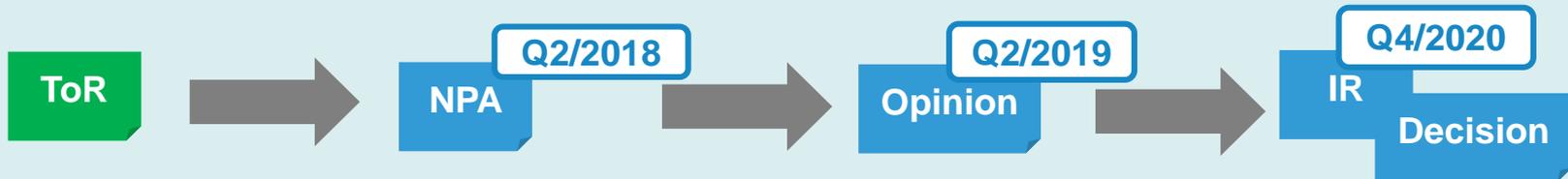
RMT.0251 (Phase 2) Embodiment of SMS

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

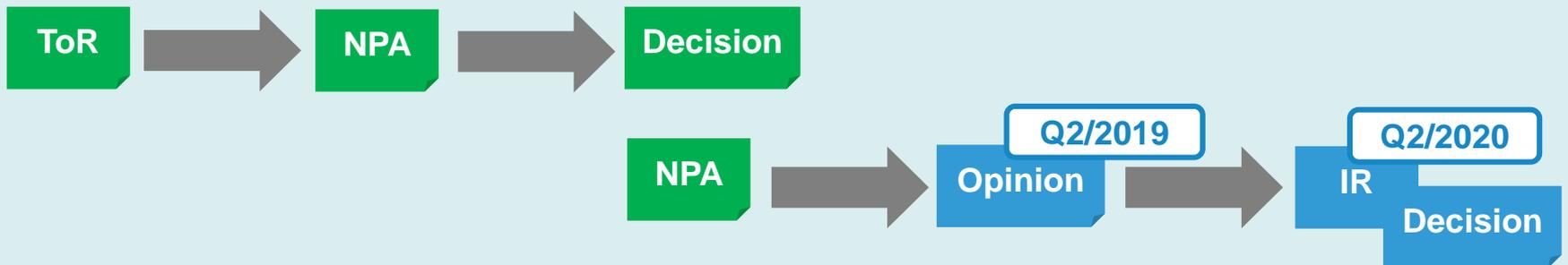
RMT.0278 Importing of aircraft from another regulatory system

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

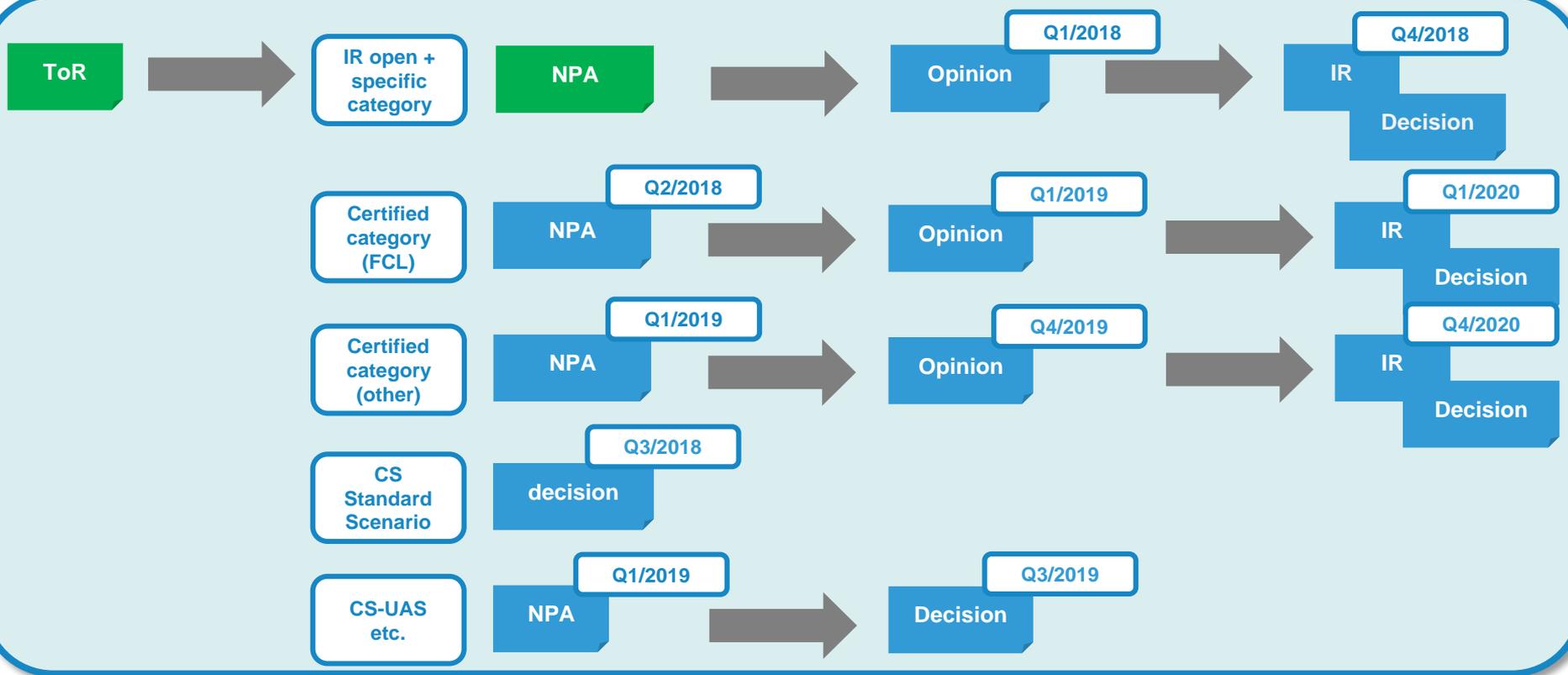




Upcoming Part-21 proposals

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

 Simpler, lighter, better rules for General Aviation

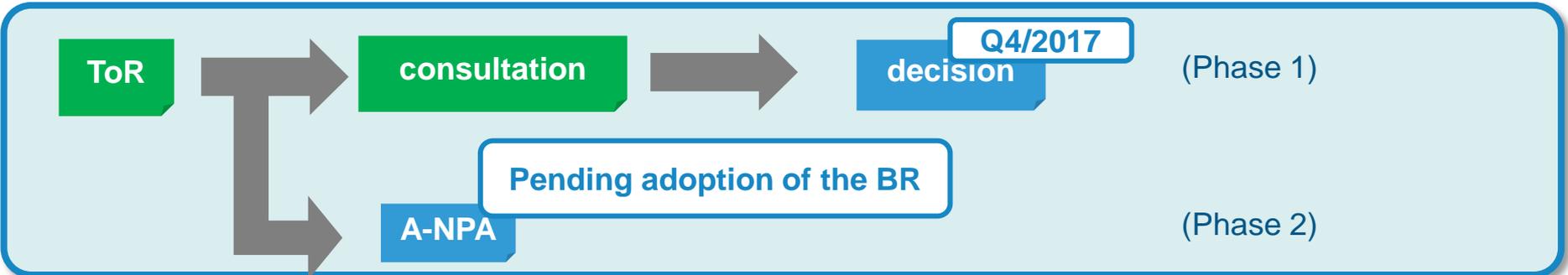
RMT.0689 Part-21 proportionality

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.

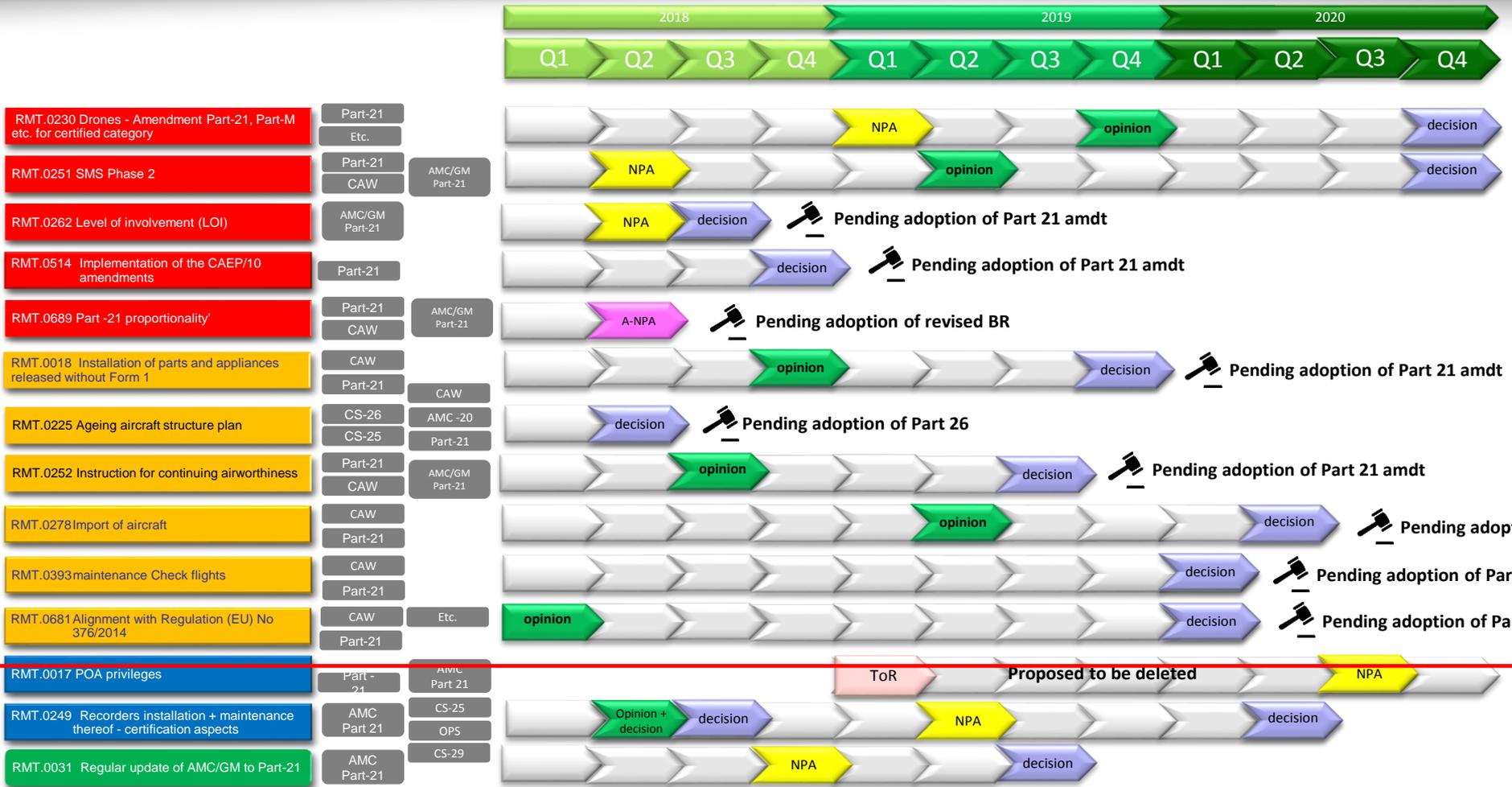
► Phase 2: depending on the revision of the BR, task may be merged with general task to implement revised BR; timeline: 2 years after adoption of new BR.

- Part-21
- AMC/GM





draft RMP 2018-2022: Part-21 RMTs





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European Aviation Safety Agency

Thank you for your attention!

Any questions?

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