



# EASA

European Aviation Safety Agency

# Rulemaking and CS-ETSO updates

## ETSO Workshop

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- Rulemaking updates
- CS-ETSO Updates
  - RMT.0206 (CS-ETSO Regular updates, Current updating cycle)
  - RMT.0457 (CS-ETSO Regular updates, Future updating cycle)
- Other Issues



# Rulemaking updates - Airworthiness

Commission Regulation 748/2012 (Annex I: Part-21) (03.08 2012 – recast of Regulation 1702/2003) was amended as follows:

- Commission Regulation (EU) 7/2013 (08.01.2013) - Implementation of CAEP/8 amendments
- Commission Regulation (EU) 69/2014 (28.01.2014) - Operational Suitability Data (OSD)

Commission Regulation (EU) 2015/640 (23.04.2015) - Additional Airworthiness Requirements for a given type of operations. (Annex I: Part 26)



# Rulemaking updates (Part-21)

## Pending Regulation/Decision

- MDM.003 a, b on Flight Testing.

## Ongoing RM Tasks

- RMT.0262 (MDM.060) Embodiment of LOI in Part-21/AMC
- RMT.0550 (MDM.060) Embodiment of SMS in Part-21/AMC
- RMT.0607 'Changes to OSD'
- RMT.0252 Instruction for Continuing Airworthiness (ICA)



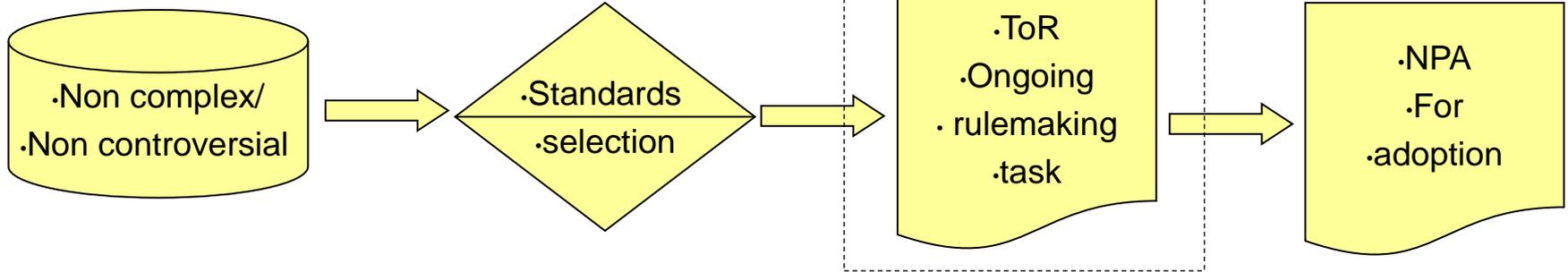
# Rulemaking updates (Part-21)

- RMT.0018 & RMT.0571 Installation of Parts and appliances that are released without an EASA Form 1 or equivalent
- RMT.0245 (MDM.048) Certification Specification for standard aircraft changes and repairs - Phase 1
- RMT.0031 (21.058) Systematic development of GM to Part-21
- RMT.0681 Occurrence Reporting
- RMT.0278 (MDM.078) Importing of aircraft from other regulatory system and Part-21 Subpart H review

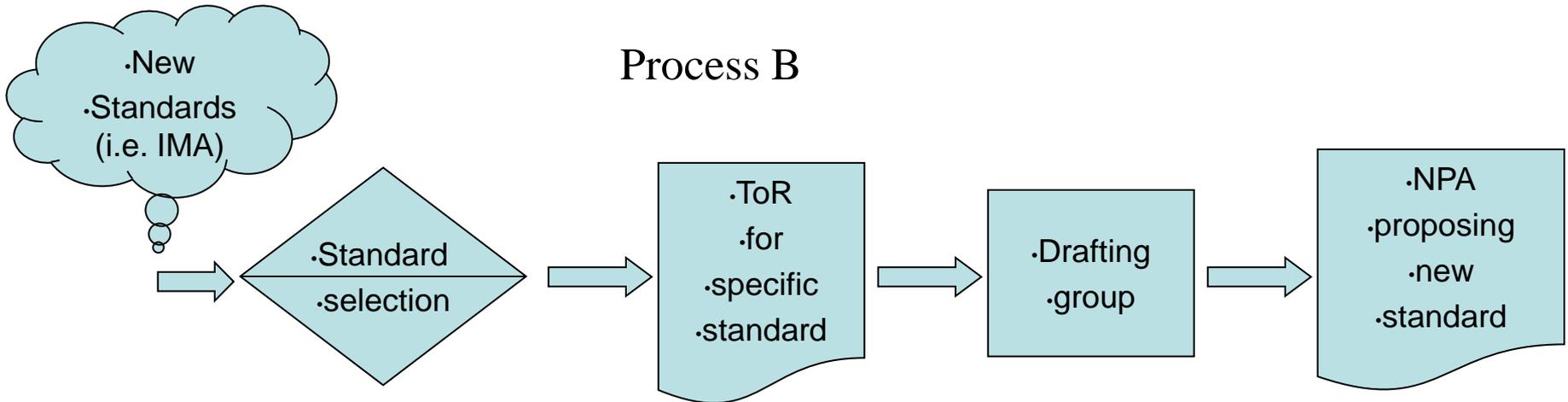
# Rulemaking updates (Process A – generic ToR)



## Process A



## Process B





## ➤ Revised ETSOs

<b>ETSO reference</b>	<b>ETSO title</b>
ETSO-C3e	Turn and Slip Instruments
ETSO-C5f	Direction Instrument, Non-Magnetic (Gyroscopically Stabilized)
ETSO-C70b	Life Rafts
ETSO-C76b	Fuel Drain Valves
ETSO-C88b	Automatic Pressure Altitude Reporting Code Generating Equipment
ETSO-C89a	Crew Member Oxygen Regulator, Demand
ETSO-C90d A1	Cargo Pallets, Nets and Containers
ETSO-C99a	Flight Deck (Sedentary) Crew Member Protective Breathing Equipment
ETSO-C100c	Aviation Child Safety Device (ACSD)
ETSO-C112e	Secondary Surveillance Radar Mode S Transponder



## ► Revised ETSOs

<b>ETSO reference</b>	<b>ETSO title</b>
ETSO-C113a	Airborne Multipurpose Electronic Displays
ETSO-C116a	Crewmember Portable Protective Breathing Equipment
ETSO-C119d	Airborne Collision Avoidance System II (TCAS II)
ETSO-C126b	406 and 121.5 MHz Emergency Locator Transmitter
ETSO-C127b	Rotorcraft, Transport Aeroplane, and Small Aeroplane Seating Systems
ETSO-C139a	Audio Systems and Equipment
ETSO-C151c	Terrain Awareness and Warning System (TAWS)
ETSO-C159b	Next Generation Satellite Systems (NGSS) equipment
ETSO-C166b A2	Extended Squitter Automatic Dependent Surveillance-Broadcast (ADS-B) And Traffic Information Services-Broadcast (TIS-B) Equipment Operating On The Radio Frequency Of 1090 Megahertz (MHz)
ETSO-C173a	Nickel-Cadmium and Lead-Acid Batteries



## ➤ New ETSOs

<b>ETSO reference</b>	<b>ETSO title</b>
ETSO-C167	Personnel Carrying Device Systems (PCDS), also known as Human Harnesses
ETSO-C201	Attitude and Heading Reference Systems (AHRS)
ETSO-C202	Cargo Stopper Devices
ETSO-2C515	Aircraft Halocarbon Clean Agent — Hand Held Fire Extinguishers

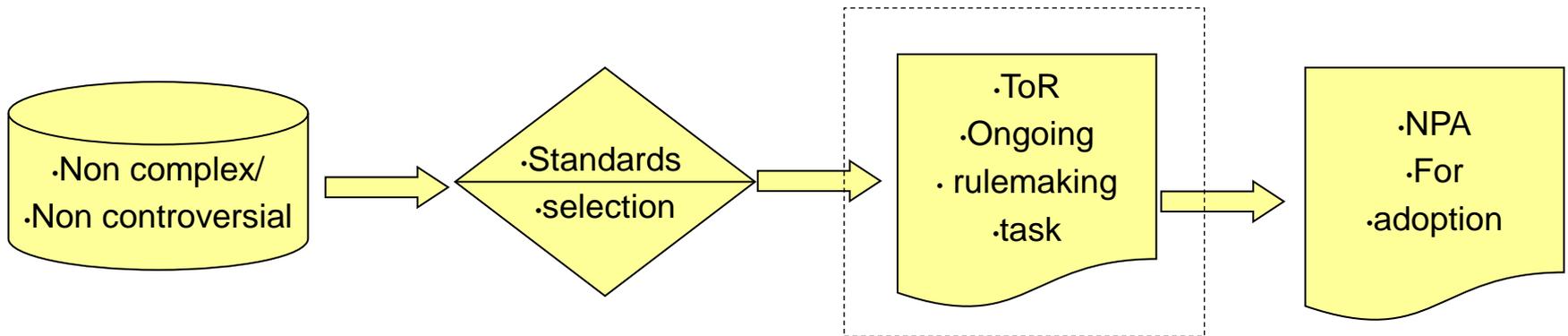


- External consultation period has expired. The comment end date for the NPA 2015-02 was 27 May 2015.
- The Agency received 79 comments from 24 commenters.
- CRD 2015-02 along with the corresponding decision on the updates, is planned to be published Q4/2015.



# RMT.0457 CS-ETSO Regular updates

- RMT.0457 'CS-ETSO Regular updates' will have a generic TOR. The generic TOR will not contain the list of proposed ETSOs.
- The proposed ETSO list for the RMT.0457 will be consulted internally and will incorporate feedback received from the stakeholders.
- RMT.0457 will remain open.
- Other RM flexibility options for the CS-ETSO Regular Updates may be possible.





# RMT.0457 CS-ETSO Regular Updates – ETSOs to be considered for updates

ETSO reference	ETSO title
ETSO-C1e	Cargo Compartment Fire Detection Instruments
ETSO-C16b	Electrically Heated Pitot and Pitot-Static Tubes
ETSO-2C19c	Portable Water Solution Type Hand Fire Extinguisher
ETSO-26d	Aircraft Wheels, Brakes and Wheel/Brake Assemblies for Parts 23, 27 and 29 Aircraft
ETSO-C64b	Oxygen Mask Assembly, Continuous Flow, Passenger
ETSO-78b	Crewmember Demand Oxygen Mask
ETSO-C85b	Survivor Locator Lights
ETSO-C118a	TCAS I
ETSO-C123c	Cockpit Voice Recorder Equipment
ETSO-C124c	Flight Data Recorder Systems



# RMT.0457 CS-ETSO Regular Updates - **ETSOs to be considered for updates**

<b>ETSO reference</b>	<b>ETSO title</b>
ETSO-C145d	Airborne Navigation Sensors Using the Global Positioning System Augmented by the Satellite Based Augmentation System
ETSO-C146d	Stand-Alone Airborne Navigation Equipment Using The Global Positioning System Augmented By The Satellite Based Augmentation System (SBAS)
ETSO-C147a	TRAFFIC ADVISORY SYSTEM (TAS) AIRBORNE EQUIPMENT
ETSO-C155b	Recorder Independent Power Supply (RIPS)
ETSO-C176a	AIRCRAFT COCKPIT IMAGE RECORDER SYSTEMS
ETSO-C177a	Data Link Recorder Equipment
ETSO-C195b	Avionics Supporting Automatic Dependent Surveillance – Broadcast (ADS-B) Aircraft Surveillance
ETSO-C196b	Airborne Supplemental Navigation Sensors for Global Positioning System Equipment Using Aircraft-Based Augmentation



# RMT.0457 CS-ETSO Regular Updates – **new ETSOs to be considered**

<b>ETSO reference</b>	<b>ETSO title</b>
ETSO-C163a	VDL MODE 3 COMMUNICATIONS EQUIPMENT OPERATING WITHIN THE FREQUENCY RANGE 117.975-137.000 MEGAHERTZ
ETSO-C168	Aviation Visual Distress Signals
ETSO-2C199	Traffic Awareness Beacon System (TABS)
ETSO-C203	Fire Containment Covers (FCC)
ETSO-2C204	Circuit Card Assembly Functional Sensors using Satellite-Based Augmentation System (SBAS) for Navigation and Non-Navigation Position/Velocity/Time Output.
ETSO-2C205	Circuit Card Assembly Functional Class Delta Equipment Using The Satellite-Based Augmentation System For Navigation Applications.
ETSO-2C206	Circuit Card Assembly Functional Sensors using Aircraft-Based Augmentation for Navigation and Non-Navigation Position/Velocity/Time Output.
ETSO-C207	Aeronautical Mobile Airport Communication System (AeroMACS)



# Other Issues: Update on IMA Project

This RM Task has 3 subtasks (RMT.0456, RMT.622, RMT.621). ASD develops draft material in support of the RMT on IMA.

- RMT.0456 (Develop ETSO-2C153)
  - NPA 2014-23 Issued 10 Sep., 2014
  - Consultation expired 10 Dec., 2014 (206 comments/ 17 stakeholders)
  - CRD/Decision planned for Q4, 2015
- RMT.0622 (Develop AMC 20-170)
  - NPA in work
- RMT.621 (Revise CS-ETSO Subpart A)
  - Planned to start in Q3, 2015.



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# Thank you for your attention!

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