



EUROPEAN AVIATION SAFETY AGENCY  
AGENCE EUROPÉENNE DE LA SÉCURITÉ AÉRIENNE  
EUROPÄISCHE AGENTUR FÜR FLUGSICHERHEIT

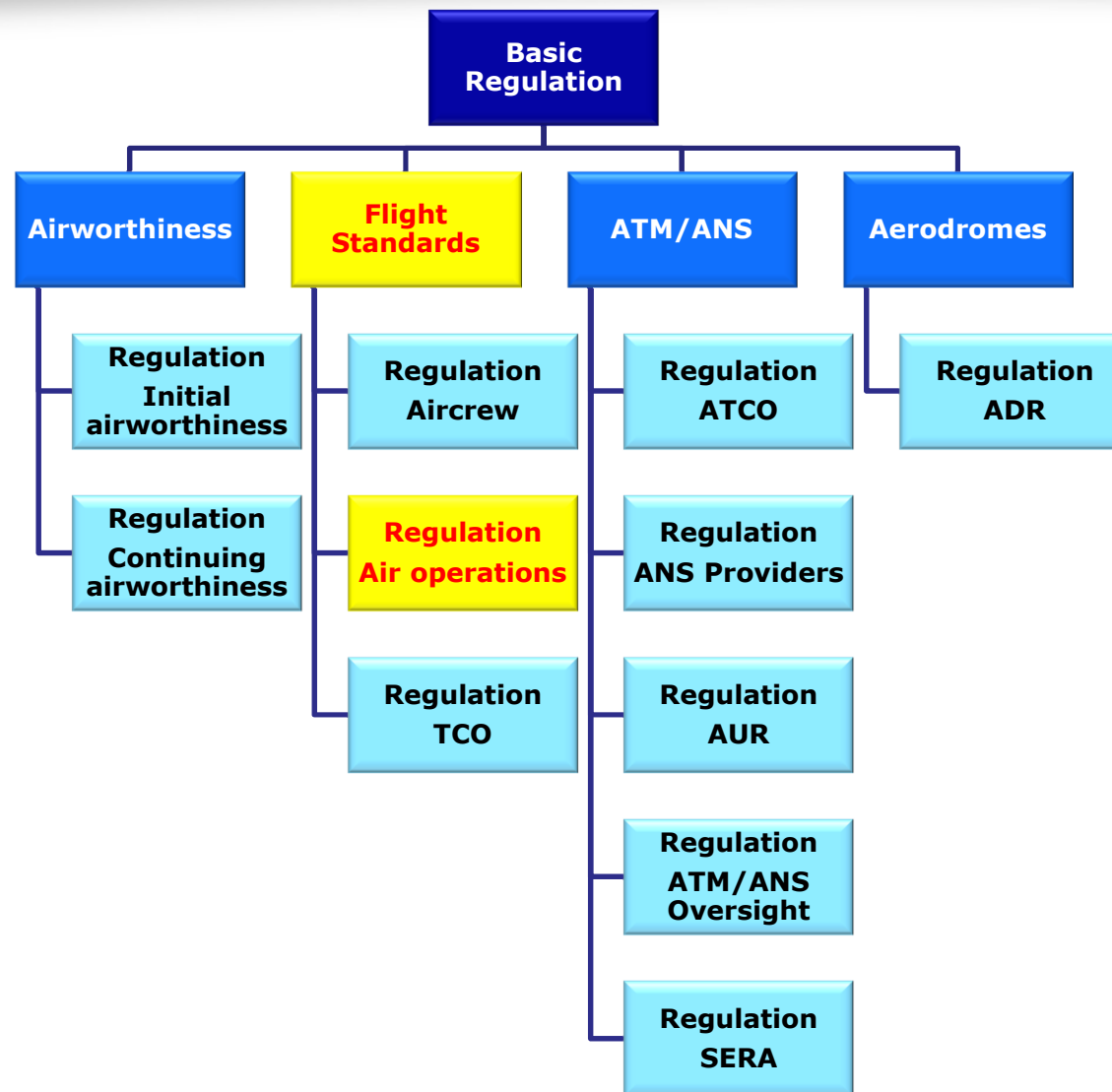
# AIR OPS Regulation Overview & developments

OPS Regional Workshop - POLAND  
15-16 May 2014  
Warsaw

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# European aviation rules structure



- **ATM/ANS:** Air traffic management, air navigation services
- **TCO:** Third country operators
- **ATCO:** Air traffic controllers
- **AUR:** airspace usage requirements
- **SERA:** Single European rules of the air
- **ADR:** Aerodromes



# Territorial scope of the BR



28 EU states



4 EFTA states





# Scope of the BR

## BR does **not** cover:

Airworthiness and environmental protection of aircraft	<ul style="list-style-type: none"><li>- while carrying out military, customs, police, SAR, fire fighting, coastguard or similar services</li><li>- when referred to in Annex II</li></ul>
Pilots and operations	<ul style="list-style-type: none"><li>- of aircraft referred to in Annex II, unless used for commercial operations</li></ul>
Aerodromes	<ul style="list-style-type: none"><li>- that are controlled and operated by the military</li><li>- not open to the public, not serving commercial air transport, not providing operations using instrument approach or departure (or) having paved runway of less than 800m (unless exclusively serving helicopters)</li></ul>
ATM/ANS	<ul style="list-style-type: none"><li>- that are provided or made available by the military</li></ul>

**Consequence: In these cases national rules apply.**



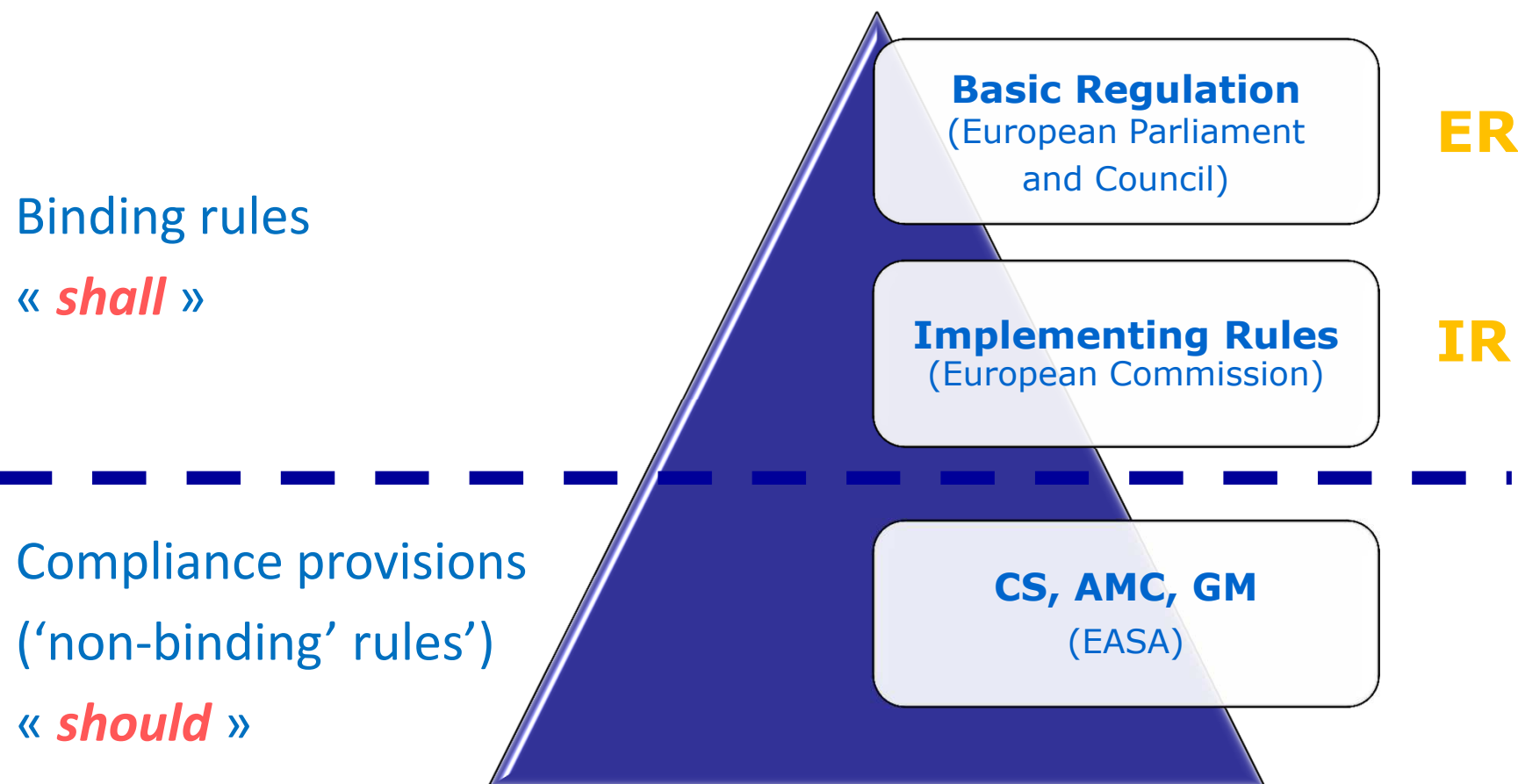
# The EU aviation safety system





# European aviation rules

## Rule hierarchy and responsible actors





## Essential requirements (ER)

- legally binding requirements
- annexed to the Basic Regulation 216/2008

## Implementing rules (IR)

- legally binding requirements adopted by the European Commission
- deviations from IRs are only possible through the flexibility procedures described in Article 14 of the Basic Regulation 2016/2008



# CS, AMC, GM

## **Certification Specifications (CS)**

- Technical standards to be used in the certification / approval process
- “Building blocks” for the certification basis
- e.g. CS-FTL, CS-FSTD, CS-AWO

## **Acceptable Means of Compliance (AMC)**

- Technical / procedural material
- One means to comply with the rule – but not the only one
- Presumption of compliance with IR

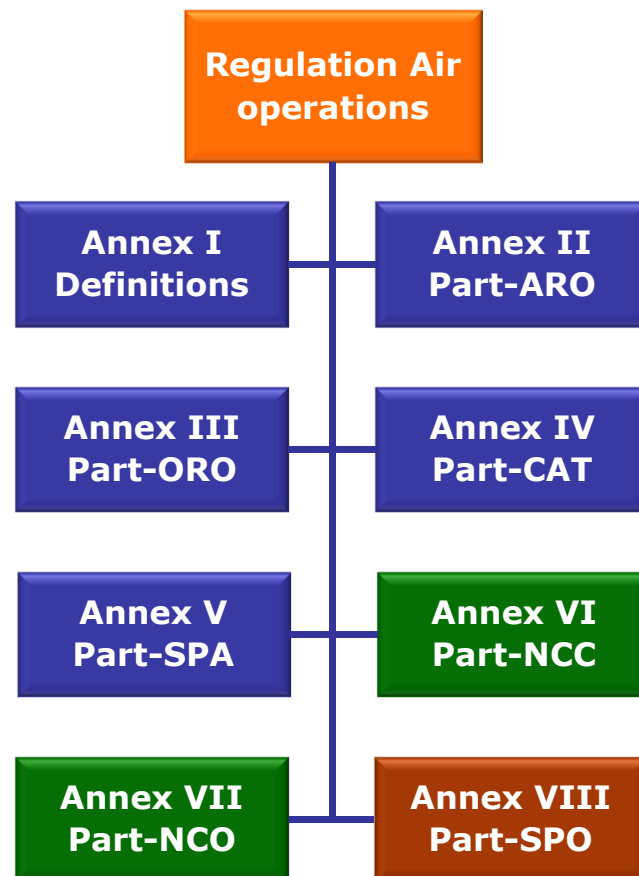
## **Guidance Material (GM)**

- Interpretative / explanatory material
- Provides guidance on how the rules should be understood





# OPS rule structure and rule development



## Regulation 965/2012 + Decisions 2012/15-16-17-18-19/R

- **Part-ARO:** Authority requirements - OPS
- **Part-ORO:** Organisation requirements - OPS
- **Part-CAT:** Commercial air transport operations
- **Part-SPA:** Operations requiring specific approvals

## Regulation 800/2013

- **Part-NCC:** Non-commercial operations with complex motor-powered aircraft (CMPA)
- **Part-NCO:** Non-commercial operations with other than CMPA

## Regulation 379/2014

- **Part-SPO:** special operations (e.g. aerial work)



# Regulation 965/2012 and amendments

	965/2012	800/2013	71/2014	83/2014	379/2014
	CAT(A,H)	NCC, NCO	OSD	FTL for CAT(A)	SPO, CAT(S,B,A-to-A)
<b>Cover Regulation</b>			Art. 9, Art. 9a	Art. 2, Art. 8, Art.9a	
<b>Annex I - DEF</b>					
<b>Annex II - ARO</b>				ARO.OPS.230, 235	
<b>Annex III - ORO</b>			GEN, MLR, FC, CC	FTL	
<b>Annex IV - CAT</b>					
<b>Annex V - SPA</b>			GEN		
<b>Annex VI - NCC</b>					
<b>Annex VII - NCO</b>					
<b>Annex VIII - SPO</b>					
<b>opt out ends:</b>	<b>28.10.2014</b>	<b>25.08.2016</b>	<b>none</b>	<b>17.02.2017</b>	<b>21.04.2017</b>

initial versions

amendments



# Decisions with AMC/GM to Reg. 965/2012 and amendments

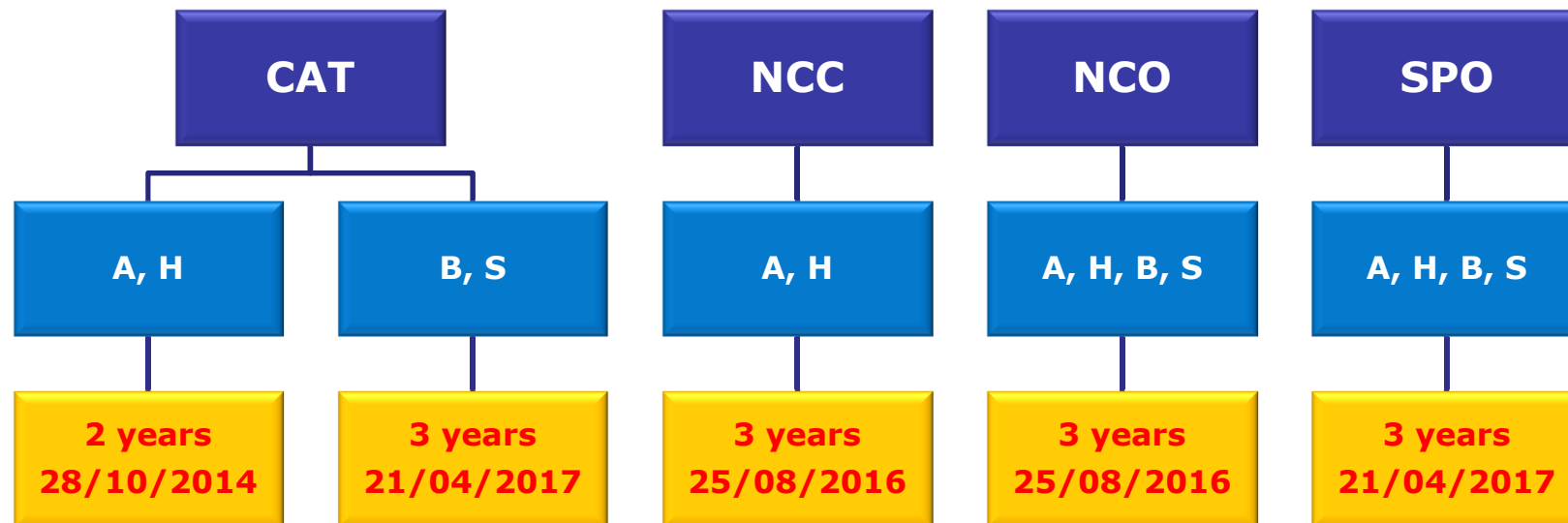
	CAT(A,H)	volcanic ash	NCC, NCO	PED	OSD	FTL for CAT(A)	SPO, CAT(S,B,A-to-A)
<b>Cover Regulation</b>							2014/019/IR
<b>Annex I - DEF</b>	2012/015/R		2013/017/R				
<b>Annex II - ARO</b>	2012/016/R	2013/007/R	2013/018/R				2014/014/IR
<b>Annex III - ORO</b>	2012/017/R	2013/009/R	2013/019/R		2014/009/R	2014/003/R	2014/017/IR
<b>Annex IV - CAT</b>	2012/018/R			2013/028/R			2014/015/IR
<b>Annex V - SPA</b>	2012/019/R		2013/020/R				
<b>Annex VI - NCC</b>			2013/021/R				
<b>Annex VII - NCO</b>			2013/022/R				2014/016/IR
<b>Annex VIII - SPO</b>							2014/018/IR

initial versions

amendments



# Transition periods (opt-outs)



## ► Member States shall;

- inform EC and EASA within 2 months if opt-out is used,
- describe reasons, duration, implementation programme.



# Reg. 965/2012 - Applicability of Annexes

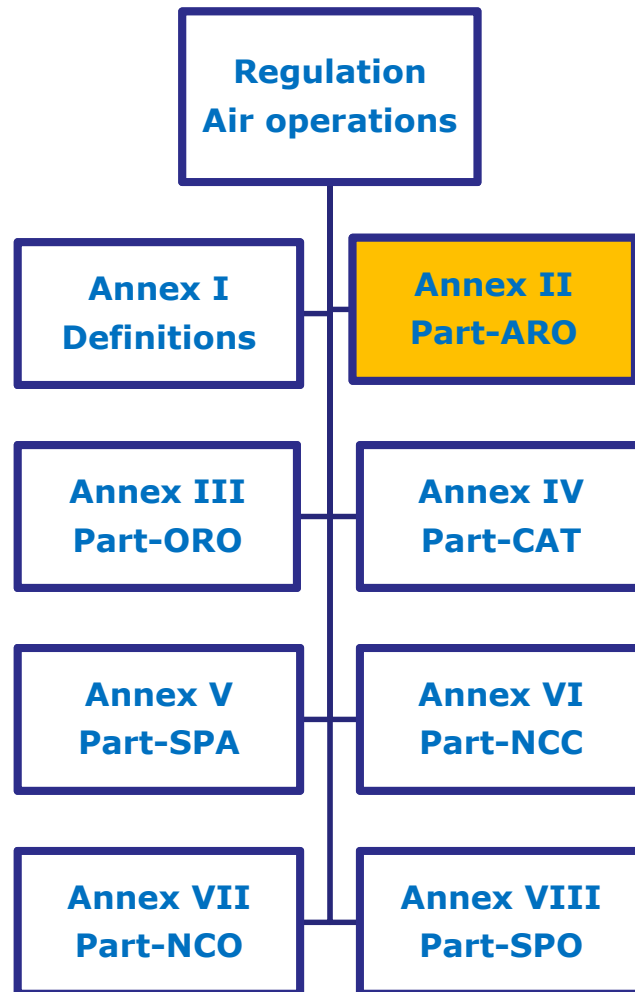
Regulation 965/2012	Operator			
	CAT	NCC	NCO SPO(NCO)	SPO (COM, NCC)
Cover Regulation				
Annex I - DEF				
Annex II - ARO				
Annex III - ORO				
Annex IV - CAT				
Annex V - SPA				
Annex VI - NCC				
Annex VII - NCO				
Annex VIII - SPO				

**Applicable**

**Not applicable**



# Part-ARO

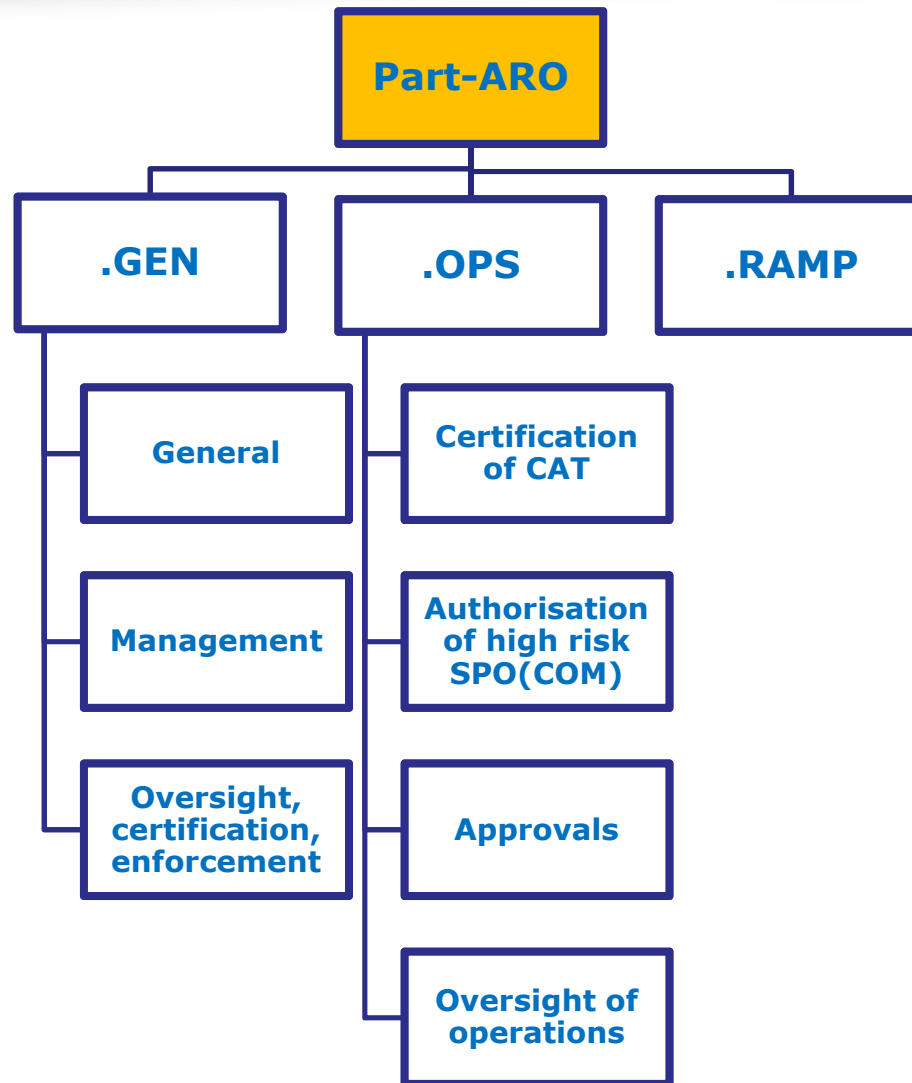


## ► **Applicability:**

- » Authority requirements for air operations for
  - » National aviation authorities
  - » EASA



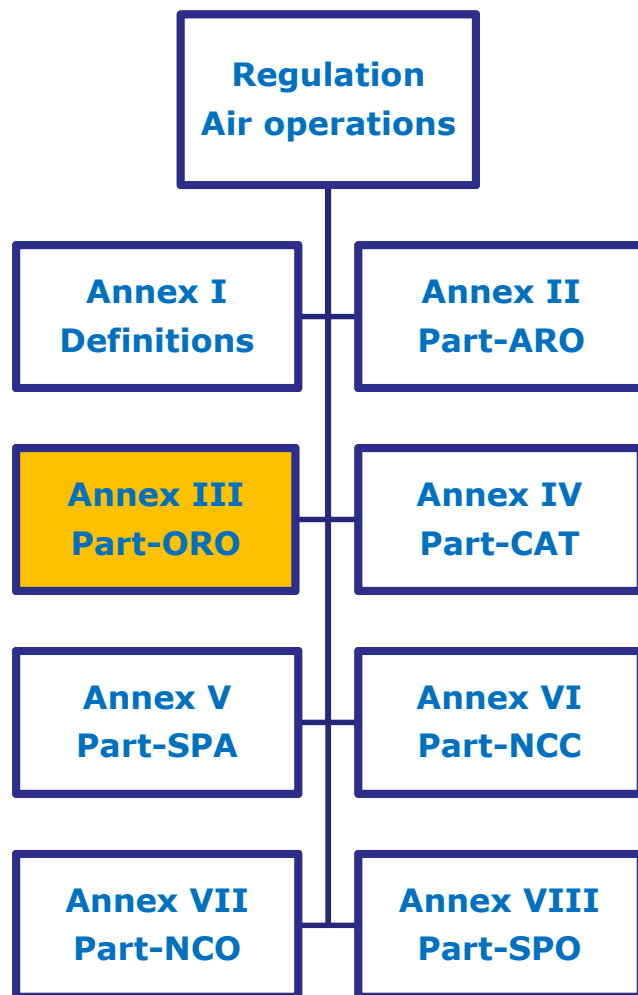
# Part-ARO | rule structure



<b>ARO</b>	authority requirements
<b>.GEN</b>	general requirements
<b>.OPS</b>	air operations
<b>.RAMP</b>	ramp inspections



# Part-ORO



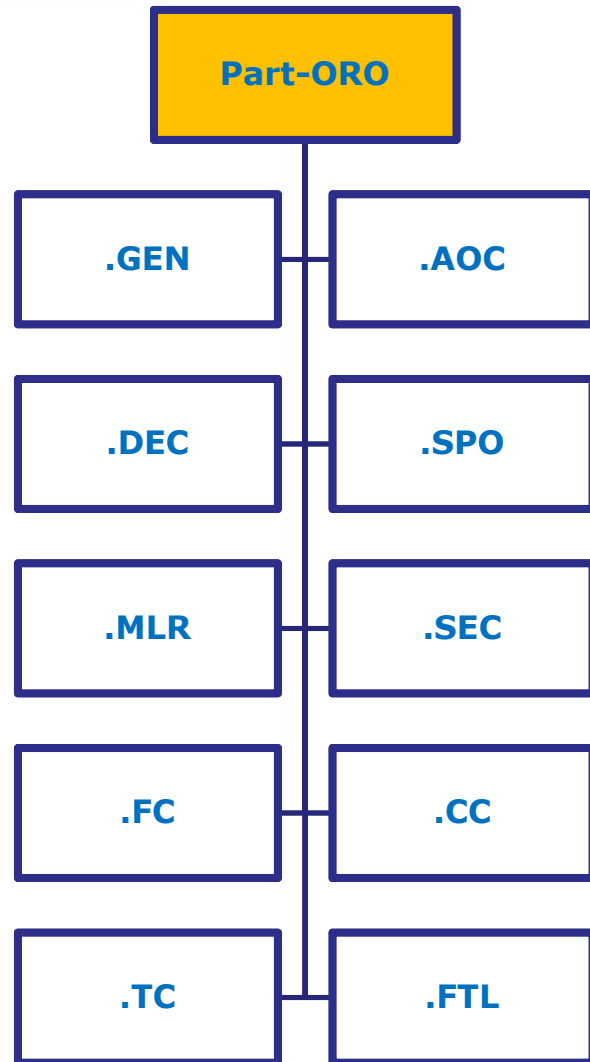
## ► **Applicability:**

- » Organisation requirements for
  - » CAT operators
  - » NCC operators
  - » SPO operators
    - ▶ Commercial operations
    - ▶ Non-commercial operations with complex aircraft





# Part-ORO | rule structure



- .GEN** general requirements
- .AOC** air operator certification
- .DEC** declaration
- .SPO** commercial specialised operations
- .MLR** manual, logs, records
- .SEC** security
- .FC** flight crew
- .CC** cabin crew
- .TC** technical crew
- .FTL** flight and duty time limitations and rest requirements



# Part-ORO | applicability of subparts

Part-ORO	Operator			
	CAT	NCC	SPO(COM)	SPO(NCC)
<b>.GEN</b>				
<b>.AOC</b>				
<b>.DEC</b>				
<b>.SPO</b>				
<b>.MLR</b>				
<b>.SEC</b>				
<b>.FC</b>		Sec.1	Sec. 1 and 3	Sec.1
<b>.CC</b>				
<b>.TC</b>	CAT(H)			
<b>.FTL</b>	CAT(A) scheduled			

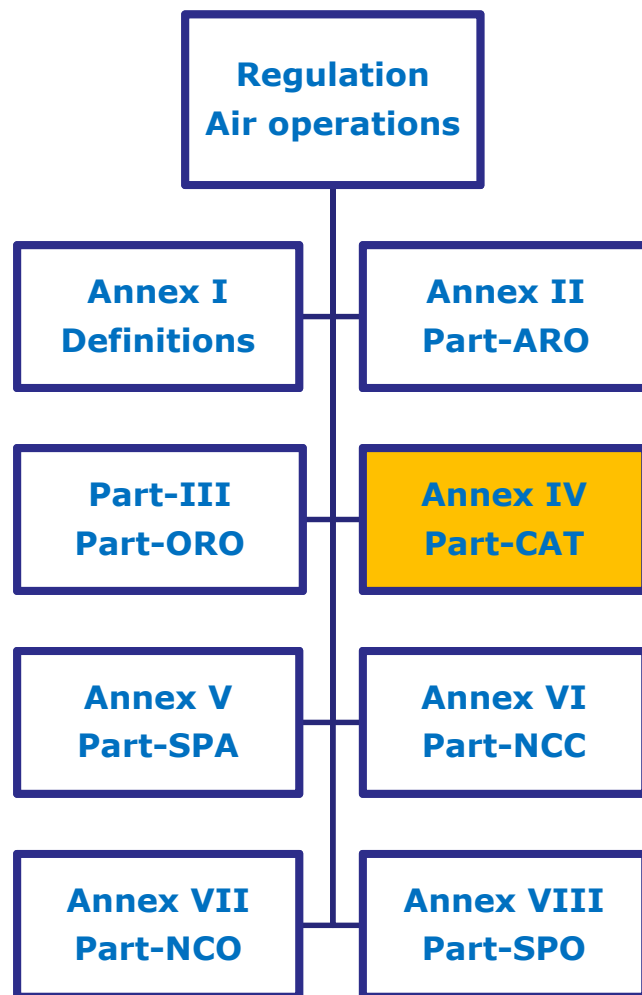
Applicable

Partly applicable

Not applicable



# Part-CAT

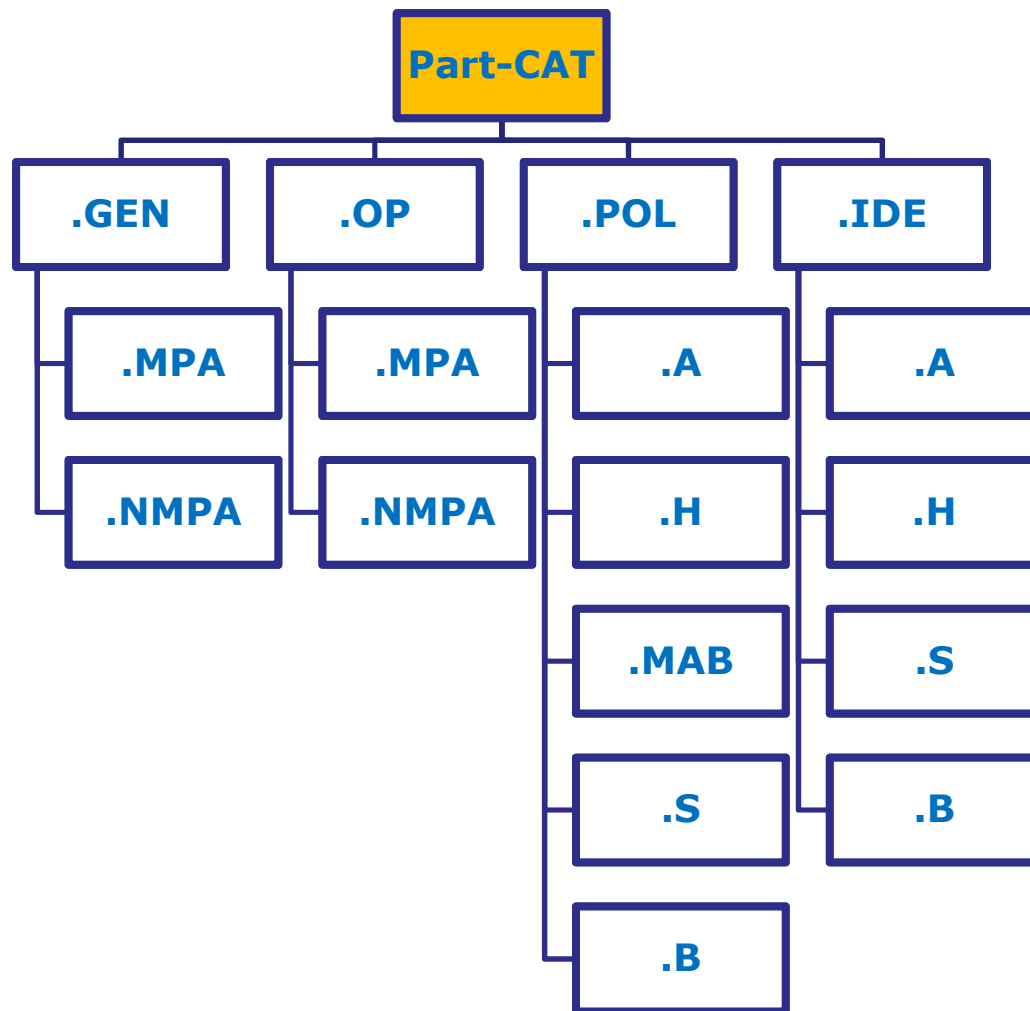


## ► **Applicability:**

- » Technical rules for CAT operations with
  - » Complex aircraft:  
A, H
  - » Non-complex aircraft:  
A, H, S, B
  - » A-to-A operations with A, H



# Part-CAT | rule structure



**CAT** – commercial air transport

**.GEN** – general requirements

**.OP** – operational procedures

**.POL** – performance and operating limitations

**.IDE** – instruments, data, equipment

**.MPA** – motor-powered aircraft

**.NMPA** – non-motor-powered aircraft

**.A, .H, .S, .B** – aeroplanes, helicopters, sailplanes, balloons

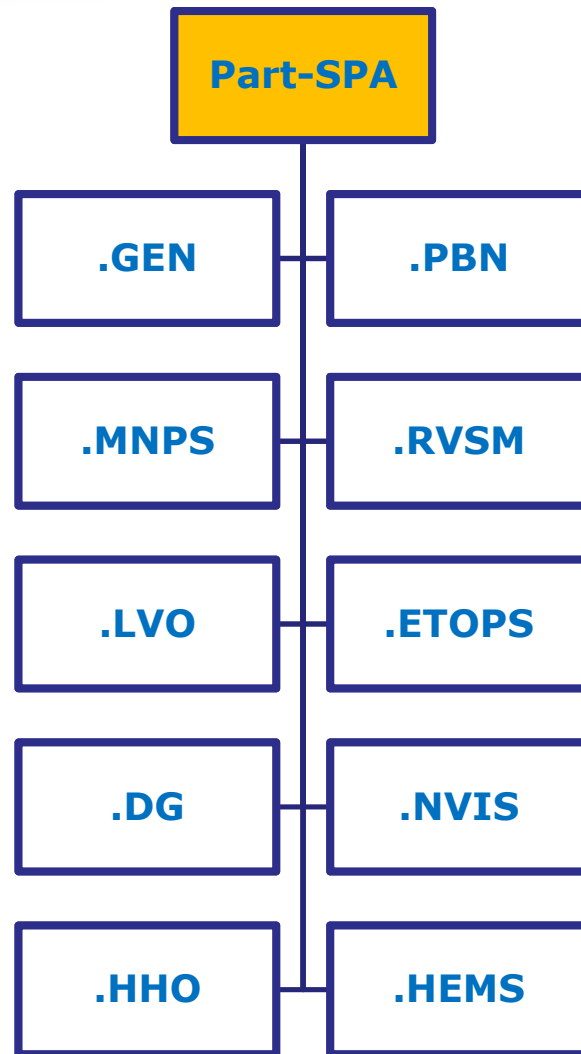
**.MAB** – mass and balance



- » Operators which wish to conduct an operation requiring a specific approval
- » To be documented in
  - » OPSPECS for certified operators
  - » List of specific approvals for non-certified operators



# Part-SPA | rule structure



- › **.GEN** – general requirements
- › **.PBN** – performance based navigation
- › **.MNPS** – minimum navigation performance specifications
- › **.RVSM** – reduced vertical separation minima
- › **.LVO** – low visibility operations
- › **.ETOPS** – extended range operations with two-engined aeroplanes
- › **.DG** – dangerous goods
- › **.NVIS** – night vision imaging systems
- › **.HHO** – helicopter hoist operations
- › **.HEMS** – helicopter emergency medical services



# Part-SPA | applicability of subparts

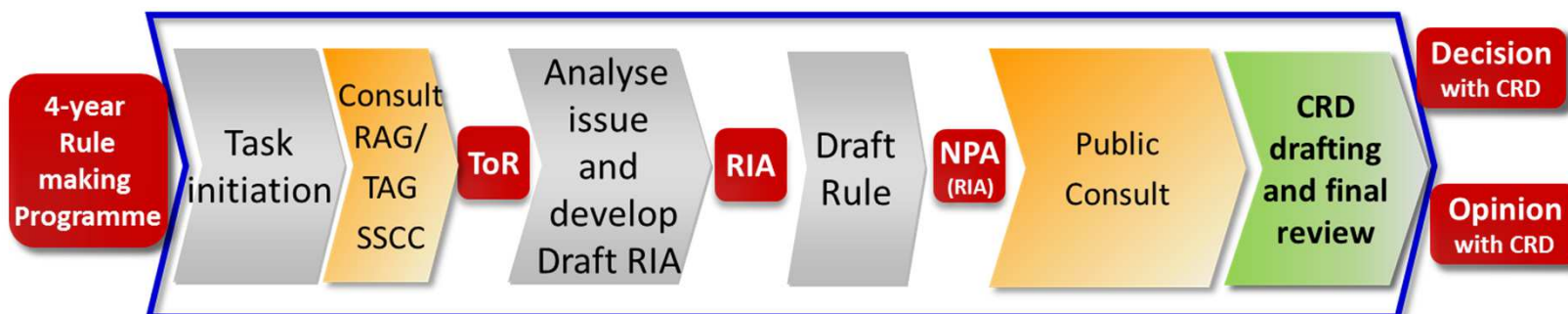
Part-SPA	Operator			
	CAT	NCC	NCO	SPO
<b>.GEN</b>				
<b>.PBN</b>				
<b>.MNPS</b>				
<b>.RVSM</b>				
<b>.LVO</b>				
<b>.ETOPS</b>				
<b>.DG</b>				
<b>.NVIS</b>	only H			
<b>.HHO</b>	only H			
<b>.HEMS</b>	only H			

Applicable
Partly applicable
Not applicable
Not permitted



# Rulemaking developments

## Rulemaking process







# Rulemaking Programme

- Revised rulemaking programme 2014-2017
  - <http://www.easa.europa.eu/document-library/rulemaking-programmes>

The screenshot displays the EASA website's 'Rulemaking Programmes' page. The header features the EASA logo and navigation links: 'the agency', 'newsroom & events', 'EASA & you', 'regulations', and 'document library'. The main content area is titled 'Rulemaking Programmes' and shows a list of programmes. A context menu is open over the list, showing options like 'Back', 'Forward', 'Go to copied address', 'Save background as...', 'Set as background', 'Copy background', 'Select all', 'Paste', 'Email with Windows Live', 'Translate with Bing', 'All Accelerators', 'Create shortcut', 'Add to favorites...', 'View source', 'Encoding', 'Print...', 'Print preview...', 'Refresh', and 'Properties'.

Date	Programme Title	Year
20 DEC 2013	Revised 2014-2017 Rulemaking Programme	2014
26 NOV 2013	Draft revised 2014-2017 Rulemaking Programme	2014
29 AUG 2013	2014-2017 Rulemaking Programme	2014
04 SEP 2012	2013-2016 Rulemaking Programme	2013
05 SEP 2011	2012-2015 Rulemaking Programme	2012



# On-going Rulemaking Tasks

No	Title	end (Opinion)
256/257	Revision of operational approval criteria for performance-based navigation	2016
352/353	Non-commercial operations of aircraft listed in the operations specifications by an AOC holder	2016
435/441	SACA and SAFA	2016
132/515	Helicopter H-V limitation	2016
325/326	HEMS performance and public interest site	2016
348/349	Flight related to design and production activities	2016
400/401	Amendment of requirements for flight recorders and underwater locating devices	2015
411	CRM training (FC and CC)	2016
409/410	Helicopter offshore operations	2014



# On going Rulemaking Tasks

No	Title	end (Opinion)
232/233	CAT SET-IMC	2015
269/270	Carriage of special categories of passengers	2015
369/370	Prediction of windshear for aeroplane CAT operations	2016
371/372	TAWS operation in IFR and VFR and TAWS for turbine powered aircraft under 5700 kg MTOM able to carry 6 to 9 passengers	2016
346/492	FTL rules for CAT operations of AEMS and HEMS	2016
429/493	FTL requirements for CAT operations - air taxi and single-pilot operations (aeroplane)	2016
516/517	Updating Parts ARO and ORO	2016



# Future Rulemaking Tasks

No	Title	start	end
271/272	Recorders for small aircraft	Q4/2013	Q4/2016
350/351	Helicopter vibration health monitoring	2013	2014
430/494	FTL requirements for CAT operations of helicopters	2014	2017
573/574	Fuel planning and management	2014	2017
379/380	All weather operations	2014	2018
292/293	Editorial review Reg.965/2012	2014	2017
296/297	Aeroplane CAT performance taking into account the European Action Plan for the prevention of Runway Excursions	2014	2017
392	AltMOC	2015	X
599/600	Review of ORO.FC	2015	2018
601/602	EFB	2015	2018



# Future Rulemaking Tasks

No	Title	start	end
318/319	Single engine helicopter operations over hostile environment	2016	2019
431/495	FTL requirements for commercial operations other than CAT	2016	2019
308/309	Amendment of requirements for data recorders II	2016	2019
577/578	EDTO	2016	2019
414/415	Operations and equipment for high performance aircraft	2016	2019
383	On-board medical supplies	2016	2017
432/496	FTL requirements for non-commercial operations of complex motor-powered aircraft	2017	2020
300/301	Operations with airships	2017	2020
338/339	Review of equipment requirements	2017	2020



# Upcoming amendments to ICAO Annex 6

SL	Subject	Amend 38 Part I	Amend 33 Part II	Amend 19 Part III
SL24/13	PBN (procedure design criteria, charting, PinS)	x	x	x
SL46/13	Harmonization of provisions	x	x	
SL46/13	EFB	x	x	x
SL46/13	Fatigue management		x	
SL46/13	Dangerous goods	x		
SL46/13	HUDs/EVS/SVS/CVS	x	x	x
SL46/13	Fuel use	x	x	x
SL56/13	Upset prevention and recovery training	x		
SL59/13	Flight recorders	x	x	x



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**Thank you for your attention**

**QUESTIONS ?**

