



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

| 10TH ANNIVERSARY |

Required Actions and Compliance Times (RACT)

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- Definition
- What can an AD require?
- AD Compliance Times
- AD Reading together
- AD on Components

Required
Actions (RA):
WHAT to do

Compliance
Times (CT):
WHEN to do

= **RACT**

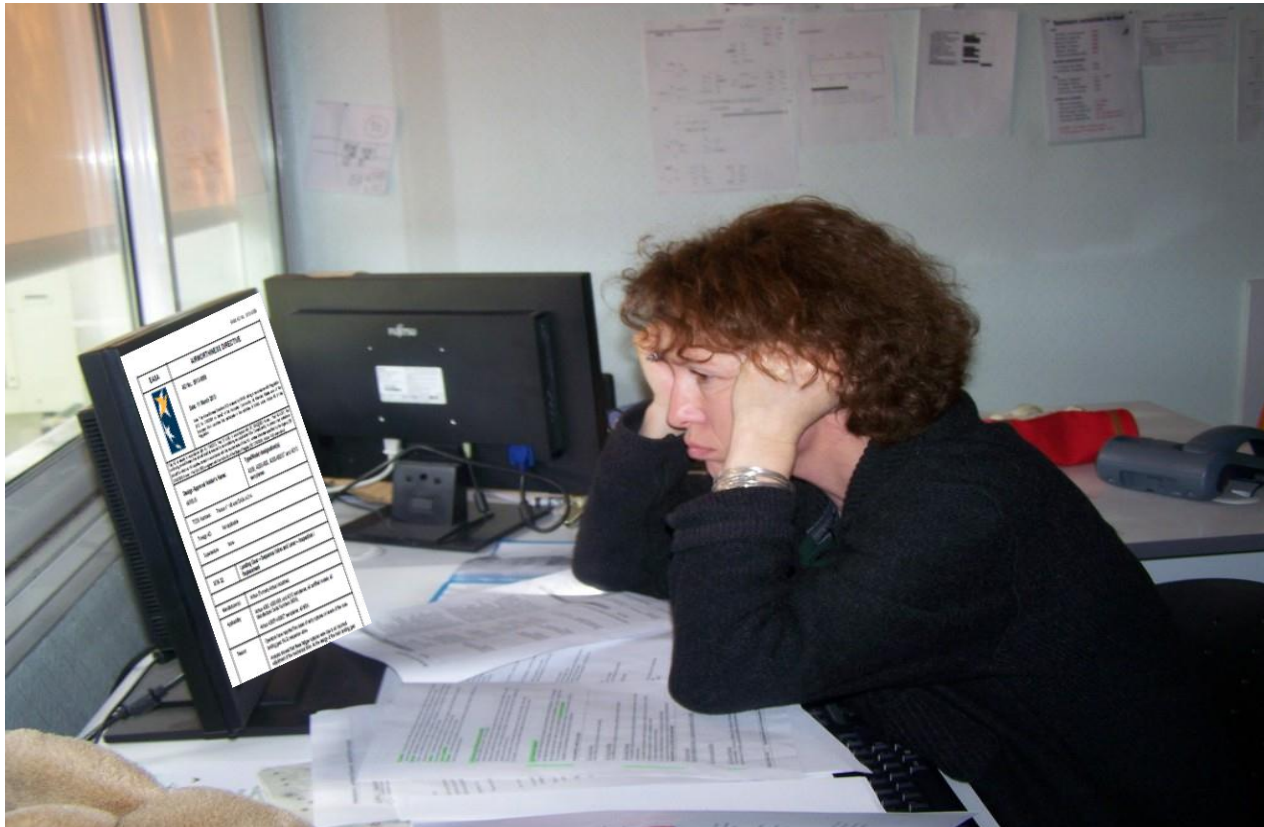
➤ Service Bulletin (SB): **HOW** to do



RACT – What we DO want

- Enforceable
- Unambiguous
- No misinterpretation possible
- You must be able to enter RACT in your AD tracking systems

RACT - What we DO NOT want



RACT – RA: What actions can an AD require?

➤ Detection

- One-time Inspection or Repetitive Inspections
- Functional Check
- Operational Check
- Identification



RACT – RA: What actions can an AD require?

- Correction
 - Modification
 - Replacement
 - Repair
 - Operational Limitation



RACT – RA: What actions can an AD require?

➤ Other

- Combination of different actions
- Accomplishment of ALS tasks
- Reporting to DAH
- Pilot Owner / Flight Crew to accomplish certain tasks





- ▶ CT reflects a safety risk assessment accomplished by DAH and validated by EASA
- ▶ In principle: One RA = One CT, also for corrective actions



➤ CT can be expressed in:

- Months / days after the effective date of the AD
- Years / months / days after manufacturing / overhaul / testing (extinguishers)
- FC / FH since aeroplane first flight
- FC / FH since last inspection
- FC / FH since the first installation of the component (or since new) / or since last overhaul of the component

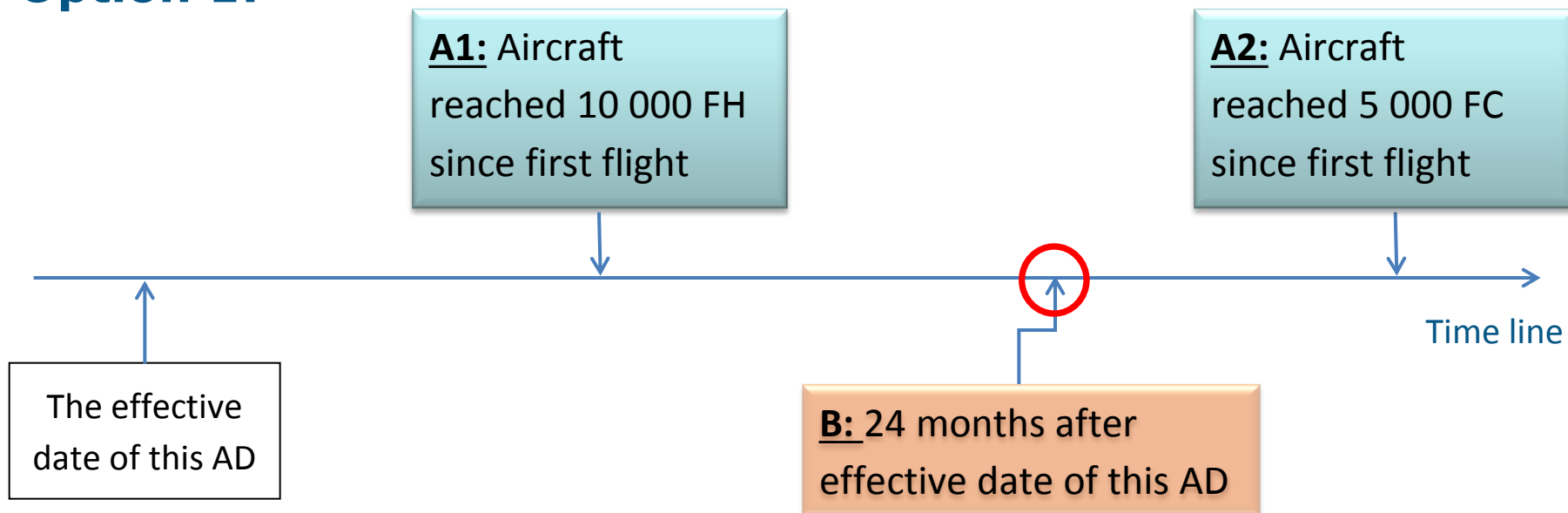


- Whichever occurs **first** after the effective date of the AD
- Whichever occurs **later** after the effective date of the AD
 - See examples



RACT - Example “whichever occurs later”

Option 1:



Within the compliance time **A** or **B**, whichever occurs later.

A: Within 10 000 flight hours (FH) (**A1**) or 5 000 flight cycles (FC) (**A2**), whichever occurs first since first flight of the aircraft,

or

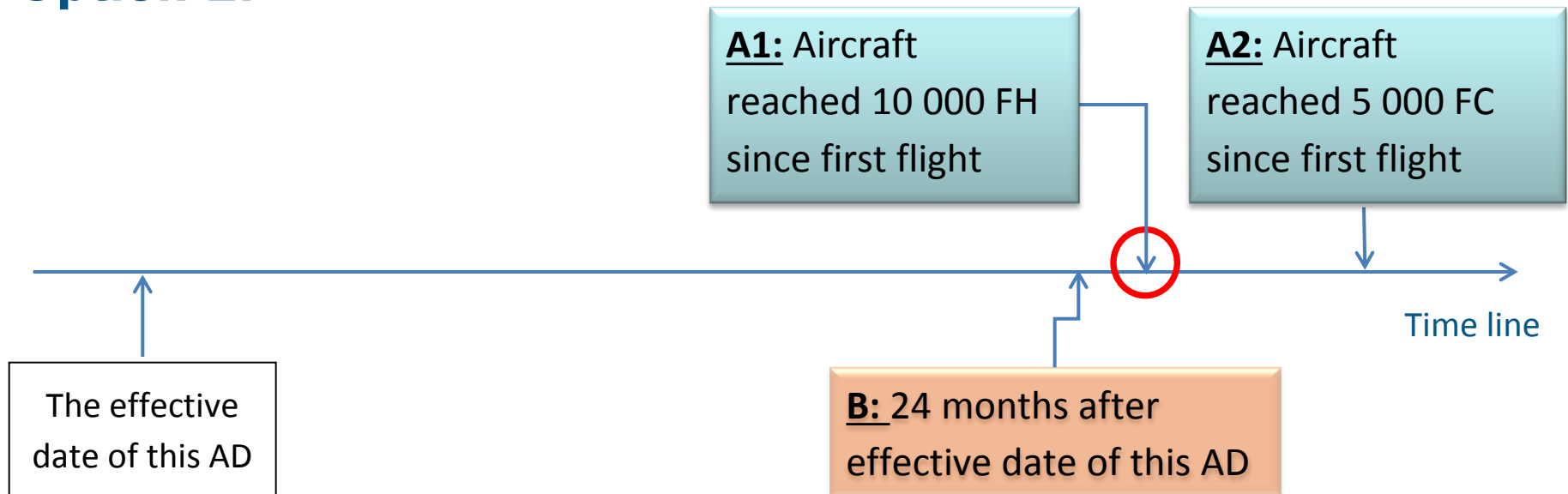
B: within 24 months after the effective date of this AD.

 **End of compliance time**



RACT - Example “whichever occurs later”

Option 2:



Within the compliance time **A** or **B**, whichever occurs later.

A: Within 10 000 flight hours (FH) (**A1**) or 5 000 flight cycles (FC) (**A2**), whichever occurs first since first flight of the aircraft,

or

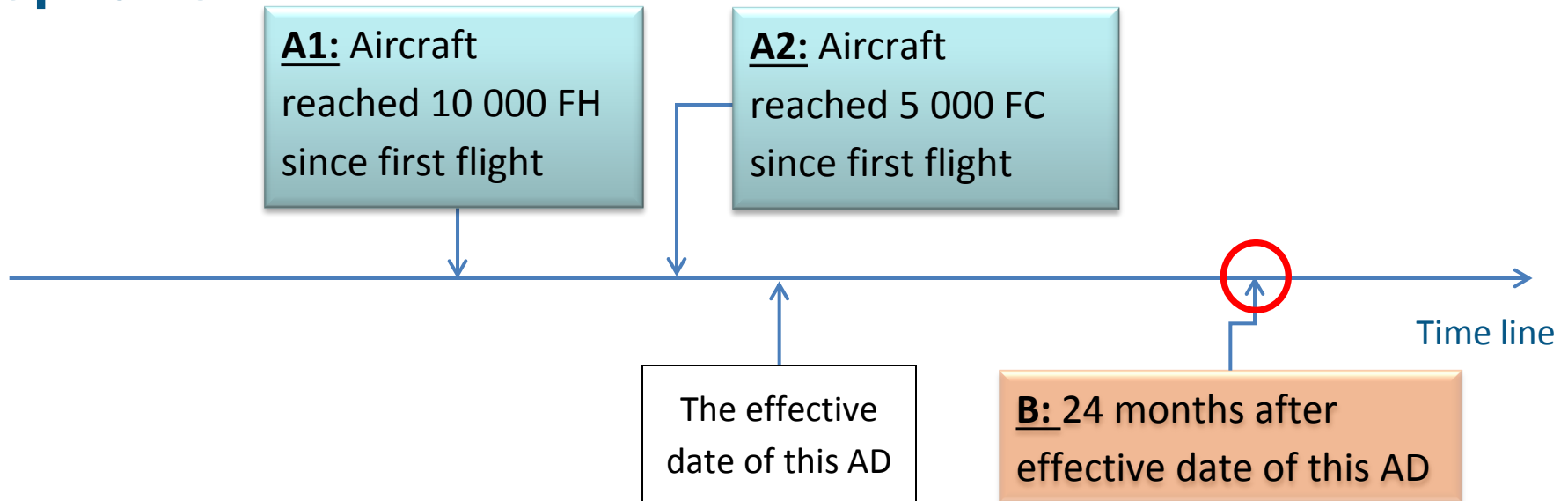
B: within 24 months after the effective date of this AD.

 **End of compliance time**



RACT - Example “whichever occurs later”

Option 3:



Within the compliance time **A** or **B**, whichever occurs later.

A: Within 10 000 flight hours (FH) (**A1**) or 5 000 flight cycles (FC) (**A2**), whichever occurs first since first flight of the aircraft,

or

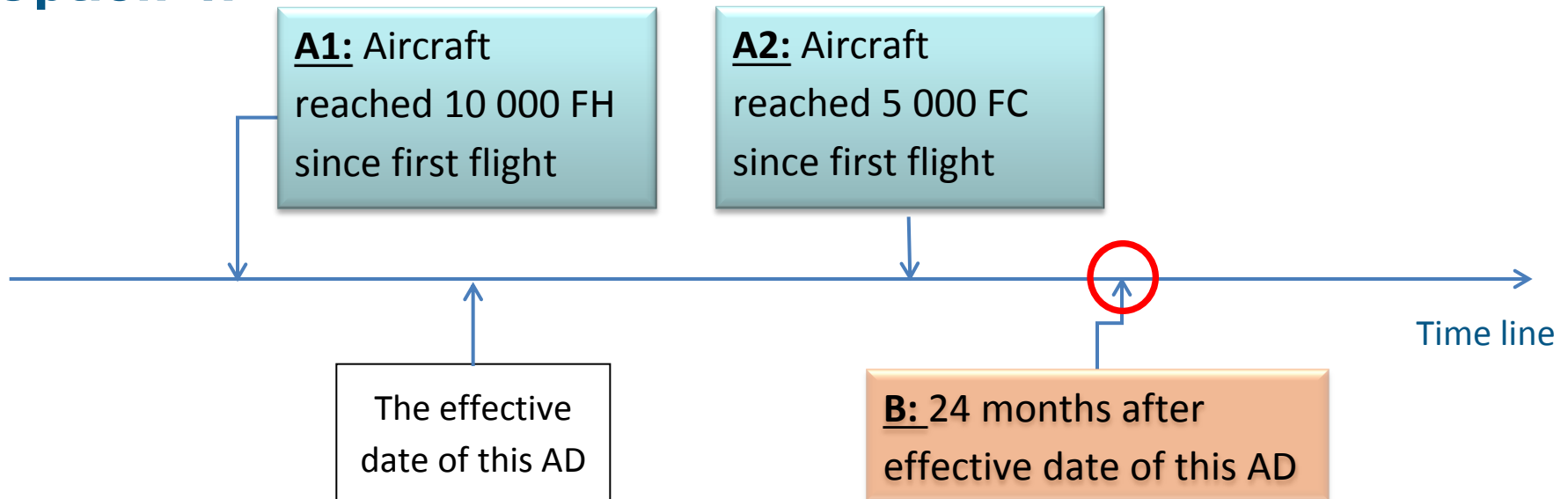
B: within 24 months after the effective date of this AD.

 End of compliance time



RACT - Example “whichever occurs later”

Option 4:



Within the compliance time **A** or **B**, whichever occurs later.

A: Within 10 000 flight hours (FH) (**A1**) or 5 000 flight cycles (FC) (**A2**), whichever occurs first since first flight of the aircraft,

or

B: within 24 months after the effective date of this AD.

 End of compliance time



- CT for repetitive inspections:
 - One threshold for initial inspection
 - Not-to-exceed intervals for repetitive inspection (next inspections after “initial” one)

- Modification referenced in RACT may be:

Required

AD Reading
2013-0116

or

Optional

To terminate need for
repetitive inspection

AD Reading
2012-0007R1

➤ Inspection:

➤ One-time

(manufacturing quality issue/need to assess the fleet)

➤ AD Reading [2013-0120](#)

➤ Repetitive inspections

➤ AD Reading [2013-0103](#)

➤ Corrective actions

➤ Terminating action or not?

- Operational Limitations / AFM:
 - Amend applicable AFM
 - Inform the crew
 - Operate aeroplane accordingly
 - AD Reading [2013-0128](#)



- Credit for actions accomplished before the effective date of an AD:

- AD Reading [2013-0016](#)

- No reference to SB revision:

What does it mean when more than one revision is indicated in Ref. Publications?

- AD Reading [2013-0081R1](#)



► Applicability of AD:

All aeroplanes on which the component is eligible for installation

► Paragraphs for

- Components installed on an aeroplane at the effective date of the AD
- Components not installed (held as spares) with conditions for installation or prohibition of installation





- Normally, only affected (unsafe) Part Number(s) is(are) mentioned in RACT
- Instructions if the service history of the component cannot be determined

- Component can be installed under certain conditions:
 - AD Reading [2013-0129](#)
- Component can no longer be installed, even if available on the shelves
 - AD Reading [2013-0118](#)

RACT – What we DO want





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Thanks, any questions?

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