



# EASA

European Aviation Safety Agency

# Continued Airworthiness (CAW)

## STC holders responsibilities

Alexandre PEYTOURAUX  
PCM –Large Transport Aeroplanes Section  
Issue 1

**STC WORKSHOP**  
**May 17<sup>th</sup>/18<sup>th</sup> 2017**

## Your safety is our mission.

An agency of the European Union 

TE.GEN.00409-001



- Introduction
- Regulatory Framework
- Who notifies What to Whom, When and How ?
- Is ‘What’ unsafe ?
- Best practice / Conclusion



# Introduction

## ➤ Continued Airworthiness (ICAO Annex 8):

The **set of processes** by which **[an STC on]** an aircraft, engine, propeller or part remains in a condition for **safe operation** throughout **its operating life**.

- tracking and analysing the in-service issues
- acting, necessarily when a 'unsafe condition' could developed

**STC Holder responsibilities**

**=**

**TC Holder responsibilities**



## ➤ Part 21 – Subpart E

### ➤ 21.A.118A Obligations and EPA marking

#### ➤ **21.A.3A – Failures, malfunctions and defects**

*GM 21.A.3A(a) The system for collection, investigation and analysis of data*

*GM 21.A.3A(b) Occurrence reporting*

*AMC 21.A.3A(b)(2) Reporting to the Agency*

#### ➤ **21.A.3B – Airworthiness directives**

*GM 21.A.3B(b) Determination of an unsafe condition*

*AMC 21.A.3B(b) Unsafe condition*

*GM 21.A.3B(d)(4) Defect correction – Sufficiency of proposed corrective action*



# Regulatory framework

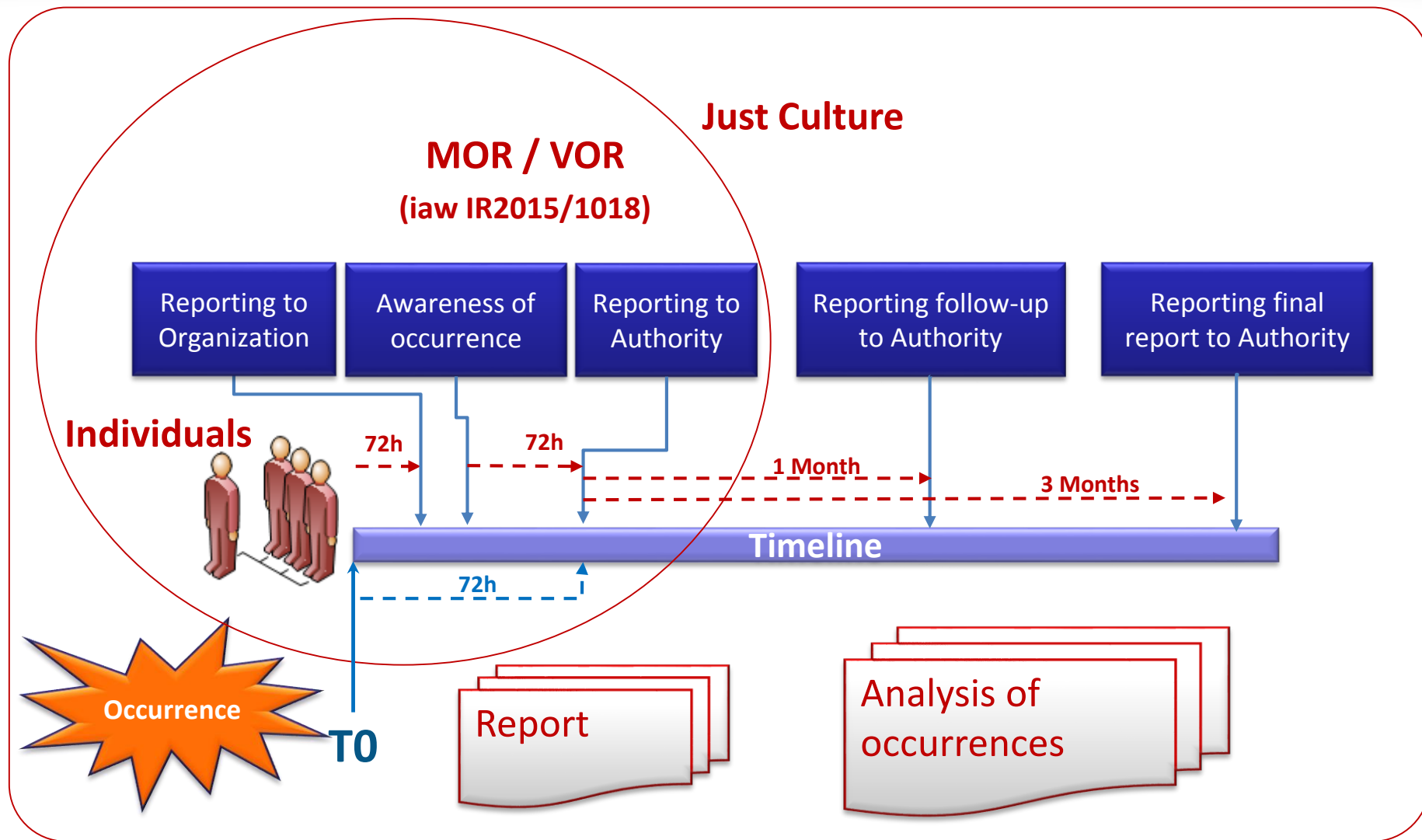
- Regulation (EU) No 376/2014 (e.i.f. Nov 2015)
  - **reporting, analysis and follow-up of occurrences in civil aviation**
  - only applicable to Organisations\* approved by the Agency and established in 32 Member States.



\* State or private entities



# Who notifies What to Whom, When and How ?





# Who notifies What to Whom, When and How ?

## ➤ Who : Individuals / Organisation

- Recommendation : *Encourage your staff to report via the organisation channel ...*
  - Advantage : SMS, process improvement, ...
  - Constraint : reporting means available, ...

## ➤ What : Mandatory RO, Voluntary RO (when safety risk identifies), initial and final analysis.

- Recommendation : *Except significant safety issues, analysis of occurrences grouped by technical topic is preferred ...*

## ➤ Whom : Competent Authority

- for STC DAH to EASA



# Who notifies What to Whom, When and How ?

## ➤ When :

- Recommendation : *better getting an occurrence notification after 72 hours than no notification ...*

## ➤ How : Reports are required to be ECCAIRS software & ADREP taxonomy compatible

- Option : The European Aviation Reporting Portal (<http://www.aviationreporting.eu>)
  - On-line form (small/medium org.)
  - Off-line/ downloadable form (*small/medium org.*)
  - Data transfer file E5X : [report@easa.europa.eu](mailto:report@easa.europa.eu) (*large org.*)





## ➤ 'Just Culture' Declaration



Just Culture declaration.pdf

## ➤ Requirements on protection of individuals :

- Use of data for safety purpose only
- Ensure confidentiality of information

## ➤ Just Culture implementation within the organisation :

- Consultation to staff
- No blame, no liability nor prejudices



# Determination of an unsafe condition

- **Analysis**
- **Risk Assessment**
- **Corrective Action(s)**
- **Fleet Data Management**
  - Determination of Unsafe Condition
  - Determination of Compliance Time



# Best practices - Recommendations

- Keep an up-to-date **list of all STC installations** (i.e. Operator, Product identification : aircraft MSN, part S/N, ...)
- Maintain **customer contact** to encourage reporting of issues (STC adaptation(s), in-service occurrence(s), ...)
- Maintain **relations with TC holder** of the product(s) receiving your STC(s) (support for certification, up-to-date data, safety risk evaluation, ...)
- Active **monitoring of EASA publications** (AD, SIB, ...) against the products susceptible to host your STC(s).
- Inform your **customers** whenever your STC is **transferred to another entity, or surrendered**.



## 2015 / 2016 figures

- Occurrences (EASA IORS database) :
  - Occurrence reported by STC holder organisation : **21**
  - Occurrence associated to a STC design : **23**
  
- Airworthiness Directive (EASA website) :
  - [EASA AD 2015-0154](#) : Robin DR400 with STC EASA.A.S.01266
  - [EASA AD 2015-0179](#) : Boeing 727 with STC SA4363NM

## Congratulations !



**EASA**  
European Aviation Safety Agency

**THANK YOU**

**Your safety is our mission.**

An agency of the European Union

