

Aviation – Experience from applying Occurrence Reporting

Rachel Daeschler EASA, Head of Safety Intelligence and Performance

Your safety is our mission.

An agency of the European Union



- Short Introduction to EASA
- > Why Occurrence Reporting?
- > EASA experience with occurrence reporting
- Key success factors and challenges for an occurrence reporting system



Introduction to EASA





Issues certificates and approvals where centralisation is more efficient

Audits Authorities

Manages European Aviation Safety Plan

Coordinates SAFA programme



National Aviation Authorities

Issue licences, certificates and approvals where centralisation is not more efficient

Oversee organisations

Implement EU law

Conduct ramp inspections



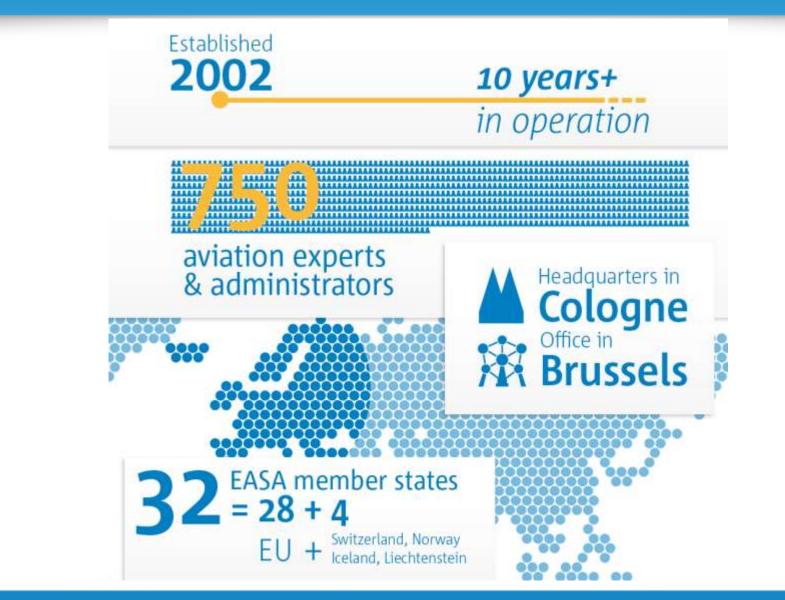
European Commission

Adopts rules

Launches infringement procedure

Manages Safety List





EASA Scope of competences as a regulator







For Prevention of Accidents and Serious Incidents

How?

- Occurrence Data can reveal directly high risk safety issues
- Occurrence Data can constitute accident precursors
- Occurrence Data can be used for risk assessment of already identified safety issues

- > Occurrence Data can reveal directly high risk safety issues
- Example: A380 uncontained engine failure 4 Nov 2010



- Occurrence Data can constitute accident precursors
- Example: B737 crash in Amsterdam 2009 (history of radioaltimeter failures)



- Occurrence Data can be used for risk assessment of already identified safety issues
- Example: A320 repetitive occurrences of fan cowl loss (maintenance error)

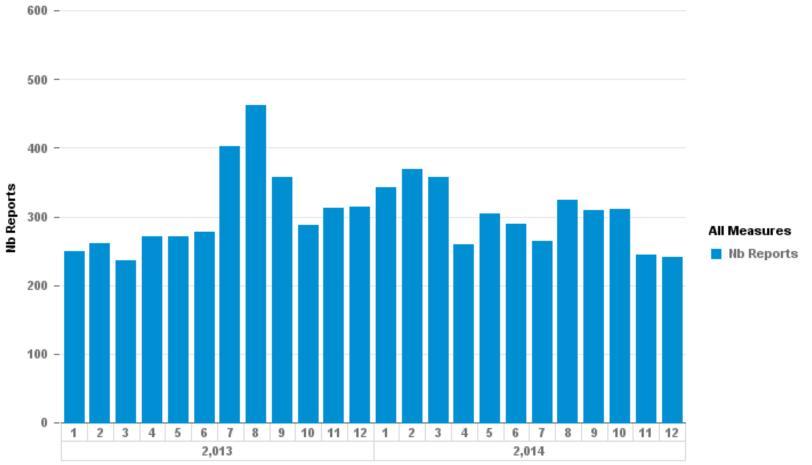




EASA Experience with Occurrence Reporting



Monthly reports 2013-2014 / Reporting status

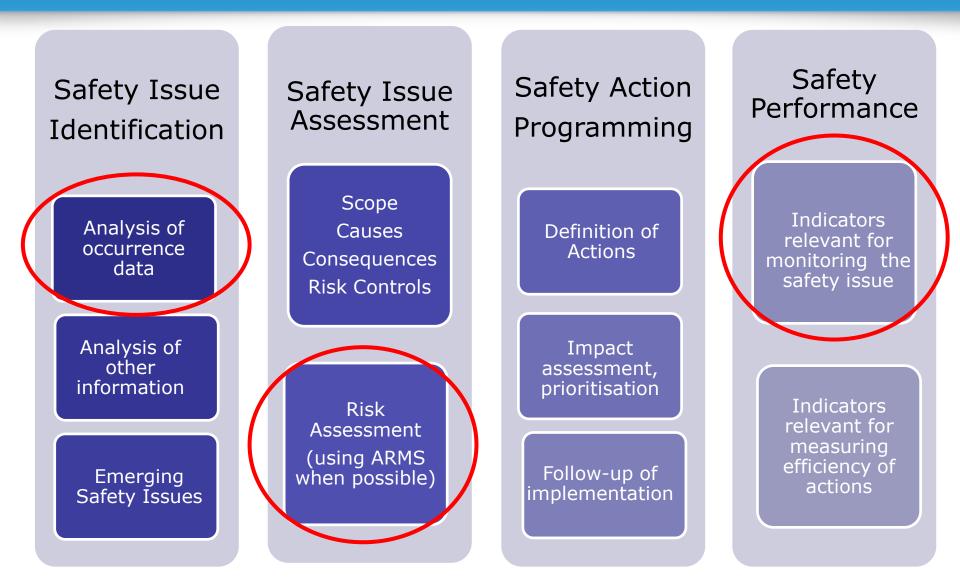


Year Reporting Date / Month Reporting Date

Safety Actions taken by EASA (mainly design related)

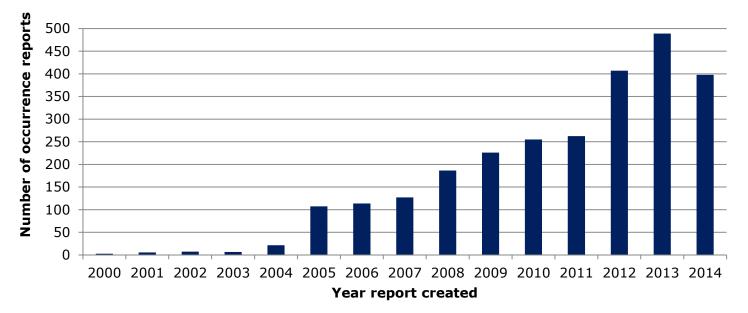
	2014
irworthiness Directives	281
afety Information Bulletins	35
6A0A A0 No. 2014 (2019)	5454 (58 No. 2014-32
EASA AIRWORTHINESS DIRECTIVE AD No.: 2014-0257811 Date: 29 May 2015 Sec: The Averagement Contine (A) is based to fold, while it accesses with regulation	EASA Safety Information Bulletin SIB Net 2014-32 Instant: 10 December 2014
(c) var. 24 kljúbil om rokult af tile Lungsaur community. A kvelisk titeta erd af tile Lingsaur i tileta erd af tile Lungsaur. (c) var. 24 kljúbil om rokult af tileta utveliske og starter af starter	Subject: Safety Information Rolated to Alleged Examination Frank at Pan-147 Maintenance Training Organization HATA
CELTURE AVAILUTE XA JOJ or agreed at the half only of the Sale of Signle (InC. Halfs top, residue) Destign Approval Holder's Name: Type Model designation(s): ASTELLS ASTELLS Control on the set CASA A INI CODO Numbers: EASA A LOB and CASA A INI	 Ref. Publications: European Commission Pagulation (EC) No. <u>215(2008</u>; - Article 14(1) - Plexibility provisions: Member Stated reactions to addrty proteins. - Article 18(1) to 10(4) - Oversight and enforcement: Exchange of Information for enforcement actions, taking
Foolign 4D. Not application	measures to prevent the continuation of an inthingement, recognization for meaning compliance with the regulations. Article 15(1) - information network.
Revision This AD revises \$A5A AD 2014-0207 dates 27 November 2014.	EC No. 2012/2013, Part 66:8:580 - Revocation, suspension or invitation of the aircraft maintenance licence.
ATA 27 Plight Controls - Triverable Horizontal Statisticar Actuator - Identification / Reglacement	Applicability: All Consetent Autorities (CA) and the availon industry
Manufacture(s) Artisar (torserly Attass Industrie)	Description: The Holienic Civil Aviation Authority (HCAA) has informed the aviation community of the revocation of the Fash 547
Argumenting Arison A200-301, A200-302, A200-202, A200-2201, A200-2201, A200-2201, A200-2201, A200-2201, A200-202, A200-202, A200-202, A200-201, A200-301, A200-300, A2	maintenance training organization approval of the Hellminic Available Training Analyse (HATSA): EL 473 (2002, because of alleged examination thread at this organization, in addition, the HECAA train samethed the certification of recognition (LOR) issued by (HATSA for the recodule acame where characting than been confirmed, and will provide a list containing details of caractivities who passed issued in addite is earns during the
Research Totaling enducations specification leads in Threamatile Networking Statistics Actuation (NEA) and another Arthura any anglesis type, a painting with any other and statistic (NEA) and the angle of the anglesis type and a painting of the networking research and (NEA) and the angle of the anglesis and the NME enducation was a state MME and (NEA) and the angle of the angle of the NME enducation was a state MME enducation and (NEA) and the angle of the Arthura and the NME enducation and angle of the Arthura	period where found was allegadly committee. The investigation by the Greek Austructures of the validity of all the suspeed CoR secret by HATA during that period is not yet complete and may take a significant period of time. There is a periodiality that CoR, where were issued by HATA on the basis of allegad invacidant activities, have been used by applicants to gain Part-HE secrets anywhere in the EASA States, or is direct States that requestee Part-147 CoR.
specific servicement bad constitutes was also the publishing and auto- ionitanianitani of the VEIG constraints and an exception with the power gate table in calles to have the fail access in a last commanded public, could lead to uncommunited environments of the THSL possibility resulting in lass of power of the arguments.	Consequently, there is an immediate cause of concern that persons could have been issued teamous and are ensurcaning conflictation pervicepes or releasing another there are immerate without having the required basic knewledge to do as:

Using occurrence data for building safety risk management for the EU Aviation System



Looking ahead: using data from the European Central Repository (ECR)

Average number of occurrence reports integrated daily in the ECR





Key Success Factors and Challenges

Key Success Factors and Challenges of an occurrence reporting system

Key Success Factors

- Just Culture, Trust in the occurrence reporting system
- Collecting Large Amounts of Data / Data Sharing
- Integration within a comprehensive risk assessment process
- Taking the right safety actions in response to uncovered safety issues

Key Challenges

- Under-reporting
- Data quality, completeness
- Language
- Providing feedback to reporters



Thank you for your attention

Your safety is our mission.

An agency of the European Union



Back up slides

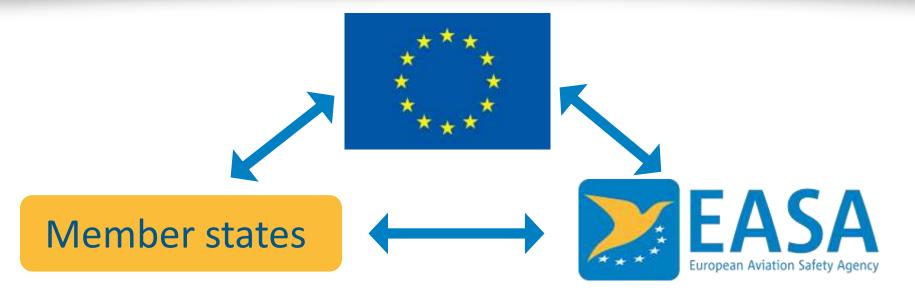
Your safety is our mission.

An agency of the European Union



- Ensure the highest common level of safety protection for EU citizens
- Ensure the highest common level of environmental protection
- Single regulatory and certification process among Member States
- Facilitate the internal aviation single market & create a level playing field
- Work with other international aviation organisations & regulators

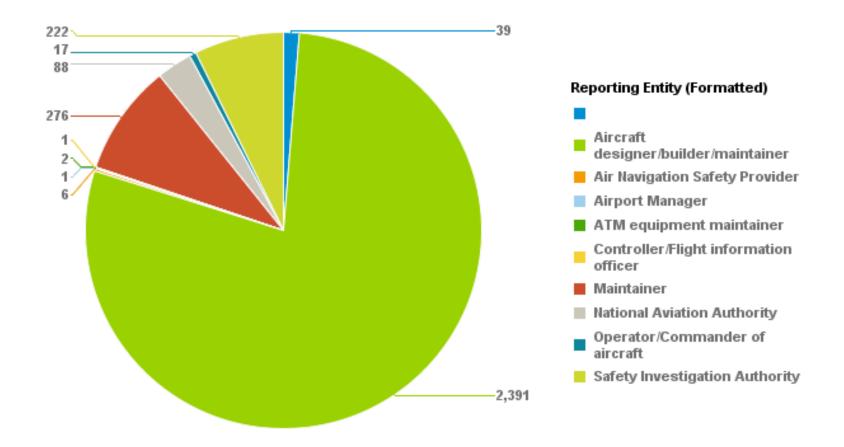




- Implementing EU Legislation
- Oversight of national organisations
 - Production
 - Maintenance
 - OPs/Licencing
 - Training
 - > ATM
 - Aerodromes

- Implementing rules
- Oversight of Member States
- Aircraft and products certification
- Safety of non-EU operations
- Approval of non-EU organisations
 - > Production
 - Maintenance
 - **T**raining
 - > ATM

Occurrences reported directly to EASA





The framework of Regulation (EU) 376/2014

Regulation EU 376/2014 on reporting and analysis of occurrences

What are the objectives of the Regulation?	 To improve aviation safety by ensuring that relevant civil aviation safety information is reported, analysed and followed-up To ensure continued availability of safety information through Just Culture
To what kind of event does it apply?	 'occurrence' means any safety-related event which endangers or which, if not corrected or addressed, could endanger an aircraft, its occupants or any other person and includes in particular an accident or serious incident;
To who does it apply?	 The Member States EASA Organisations established in a MS Natural persons

Topology of occurrence data-European Central Repository

