



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

How the European Aviation Safety Agency (EASA) can contribute to improve the standards of bird strike prevention and how to come to a more integrated approach for aviation industry?

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EASA Officers
25-29 June 2012

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easa.europa.eu



EASA Organisation Structure





Safety Analysis & Research

- Occurrence reporting according to Article 9(2) of Reg. (EU) No 996/2010
- Information is processed in ECCAIRS 5 system
 - European Co-ordination centre for Accident and Incident Reporting Systems
 - A free software to support the Regulation 2003/42/EC (under revision now)
 - Safety Recommendation Information System (SRIS) module

27/06/2012

IBSC Stavanger 25-29 June 2012

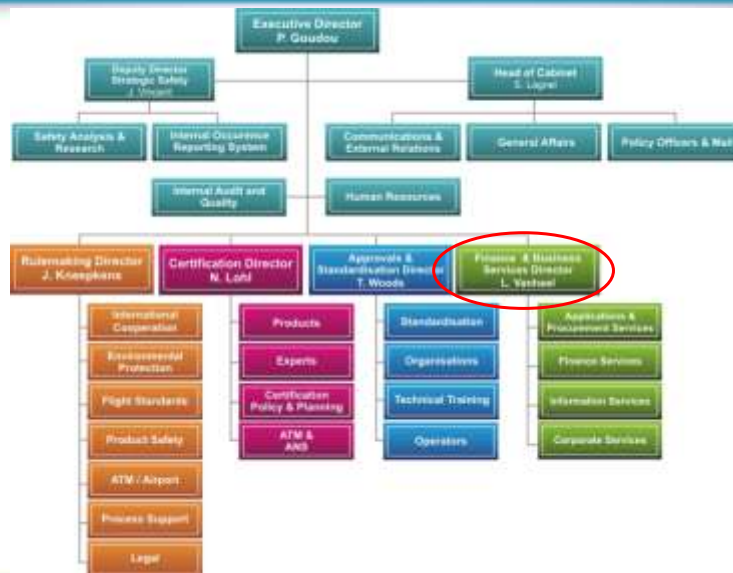
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The screenshot shows the ECCAIRS 5 Browser interface for Birdstrike Notification. The form is organized into several sections:

- Occurrence general information:** Includes fields for Responsible entity, Occurrence, File number, Location of occ., Local date, Local time, and Occurrence class.
- External environment information:** Includes fields for Light conditions, Cloud amount, and Phenomenon type.
- Aircraft information:** Includes fields for Make/model, Operator, Aircraft registration, Flight phase, Aircraft height, and Speed (last event).
- Aerodrome information:** Includes fields for Location indicator and Runway identifier.
- Birdstrike information:** Includes fields for Parts struck, Parts damaged, Hit advice, Bird size, Species description, and Bird/wildlife seen (with radio button options: 1, 2-30, 11-300, None, Unknown).
- Consequences:** Includes fields for Aircraft out of, Cost of repair, Loss of revenue, and Consequential events.



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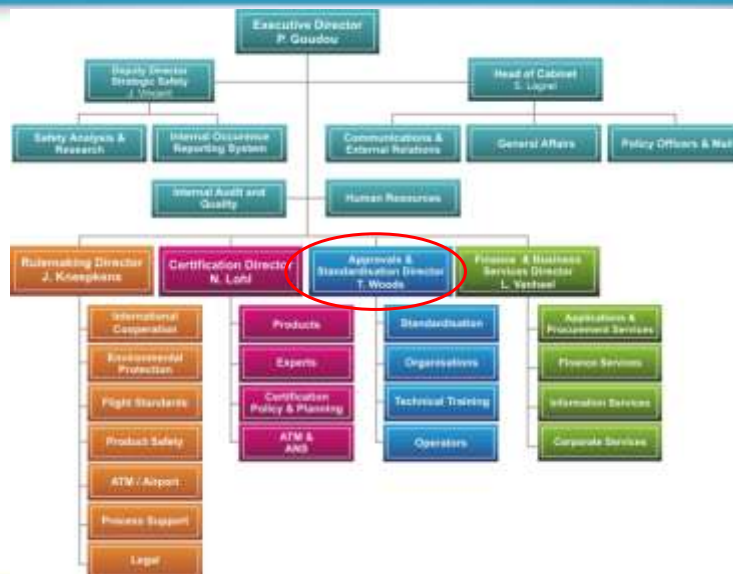
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Approvals & Standardisation Dir.

- Responsible for ensuring that the EU aviation safety legislation is properly, uniformly and consistently applied
- Inspections of the National Aviation Authorities (NAAs)
- Approval and oversight of Design, Production, and Continued Airworthiness Organisations
- Technical training

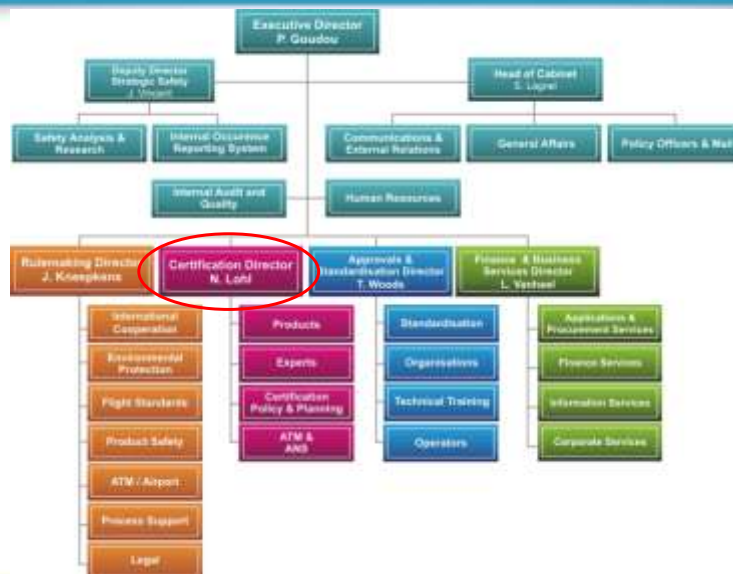
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- CS-23 (Normal, Utility, Aerobatic and Commuter Aeroplanes)
 - CS 23.775 Windshields and windows
 - AMC 23.775(g) Windshields and windows
 - CS 23.1323 Airspeed indicating system

- CS-25 (Large Aeroplanes)
 - AMC 25.361 Engine and auxiliary power unit torque
 - CS 25.362 Engine failure loads
 - AMC 25.362 Engine Failure Loads
 - CS 25.571 Damagetolerance and fatigue evaluation of structure
 - CS 25.631 Bird strike damage
 - AMC 25.631 Bird Strike Damage
 - CS 25.773 Pilot compartment view
 - CS 25.775 Windshields and windows
 - AMC 25.775(d) Windshields and Windows
 - CS 25.1323 Airspeed indicating system
 - AMC 25.1309 System Design and Analysis

- CS-29 (Large Rotorcraft)

- CS 29.631 Birdstrike

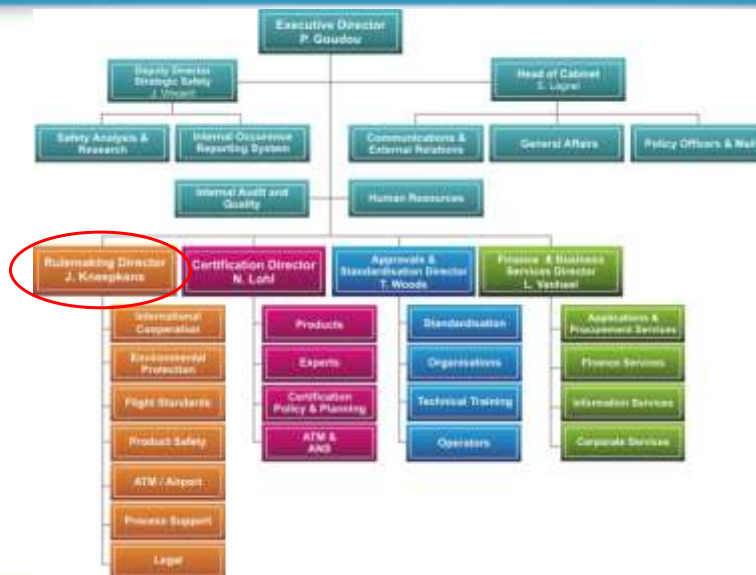
- CS-E (Engines)

- CS-E 520 Strength
 - CS-E 800 Bird Strike and Ingestion
 - AMC E 800 Bird Strike and Ingestion
 - AMC E 30 Assumptions
 - AMC E 540 Strike and ingestion of foreign matter
 - AMC E 700 Excess Operating Conditions (Turbine Engines for Aeroplanes)
 - AMC E 850 Compressor, Fan and Turbine Shafts
 - AMC E 1030 Time limited dispatch
-

- CS-P (Propellers)
 - CS-P 360 Bird Impact
 - AMC P 360 Bird Impact



EASA Organisation Structure





Legal Background

- Regulation 1108/2009 amended Regulation 216/2008 (EASA BR) extending EASA competences in the field of aerodromes, air traffic management and air navigation service providers

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Legal Background

- **Article 8a. 3**
 - Member States shall ensure that provisions are in place to safeguard aerodromes against activities and developments in their surroundings which may cause unacceptable risks to aircraft using the aerodrome
- **Article 8a. 4**
 - Aerodrome operators shall monitor activities and developments which may cause unacceptable risks to aviation in the aerodrome surroundings and take within their competence mitigating measures as appropriate

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Legal Background

➤ **Annex Va of EASA BR – Essential Requirements for Aerodromes**

➤ Operations and management

1. The aerodrome operator is responsible for operation of the aerodrome. The responsibilities of the aerodrome operator are as follows:

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(c) the aerodrome operator shall establish an appropriate aerodrome wildlife risk management programme

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EASA System

➤ **EASA transposes the requirements of the BR into:**

- Provisions for the Member States (Cover Regulation)
- Authority Requirements (AR)
- Organisation Requirements (OR)
- Operations Requirements (OPS)

➤ **The provisions are structured as follows:**

- Implementing Rule (IR)
- Acceptable Means of Compliance (AMC)
- Guidance Material (GM)

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Draft Cover Regulation

► Article 10 – Land use planning

- Member States shall ensure that the competent authority and the aerodrome operators are consulted when developments, activities, or changes in the land use in the vicinity of an aerodrome are proposed

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Authority Requirements - IR

ADR.AR.C.060 – Wildlife Management

- (a) The competent authority shall establish and implement a procedure for the reporting and recording of wildlife strikes to aircraft
- (b) The competent authority shall:
 - (1) Take action to eliminate or to prevent the establishment of any source of activity which may attract wildlife on an aerodrome or its vicinity, unless a wildlife hazard assessment indicates that these sources are unlikely to create conditions conducive to a wildlife hazard problem; and
 - (2) Allow an aerodrome operator to be consulted about the planning of such sources or activities

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Authority Requirements - AMC

- **Reporting mechanism – Reporting Form**
 - ICAO Form
 - Forward reports to ICAO Bird Strike Information System Database (IBIS)

- **Mitigating Measures**
 - Safety assessments and mitigating measures

- **Prevention of incompatible land use around aerodromes**
 - list of types of land uses which should be prevented, eliminated or prevented

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Authority Requirements - GM

- **Reporting to ICAO**
 - Reference to ICAO Doc.9332 – Manual on the ICAO Bird Strike Information System (IBIS)

- **Prevention of incompatible land use around aerodromes**
 - Explains the effect of incompatible land use on aircraft and aerodrome operations

- **Coordination**
 - Provides guidance to competent authorities on establishing of a coordination mechanism to deal with wildlife, e.g. national wildlife committee

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Organisation Requirements

➤ Implementing Rule

- Inclusion of Wildlife Control Procedures in Part E of the Aerodrome Manual

➤ Guidance Material – Personnel Requirements

- Identification of person responsible for Wildlife Management
 - Establishment of wildlife risk management programme
 - Planning and organisation of wildlife control measures
 - Reviewing wildlife strike reports, daily wildlife activity records and maintenance reports to determine the requirements for short or long term control measures
 - Ensure supply, safe keeping and correct maintenance of wildlife control equipment and consumables

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Operations Requirements - IR

ADR.OPS.B.020 – Wildlife strike hazard reduction

(a) The aerodrome operator shall:

- (1) Assess the wildlife hazard on, and in the surrounding, of the aerodrome
- (2) Establish means and procedures to minimise the risk of collisions between wildlife and aircraft
- (3) Notify the competent authority if a wildlife assessment indicates conditions in the surroundings of the aerodrome conducive to a wildlife hazard problem

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Operations Requirements - AMC

AMC – ADR.OPS.B.020 – Wildlife strike hazard reduction

- (a) The aerodrome operator should
- (1) Participate in the national wildlife strike hazard reduction programme
 - (2) Record and report to the competent authority wildlife strikes to aircraft
 - (3) Ensure that wildlife hazard assessments are made by competent personnel
 - (4) Establish, implement and maintain a wildlife risk management programme

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Operations Requirements - GM

- **Wildlife risk assessment**
 - Guidance on how to conduct a risk assessment
- **Wildlife Risk Management Programme**
 - Guidance on what could be included in a wildlife risk management programme
- **Training**
 - Guidance on what subjects could be included in a training programme for wildlife management
- **Recording and reporting of wildlife strikes and observed wildlife**
 - Guidance on how to install a reporting and recording system for wildlife activities and strikes at an aerodrome

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**Thank you for your
attention!**

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