

Regulatory Change – Basis and Development

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- Introduction to EASA
- The European Legal and Regulatory Framework
- The approach to developing Fatigue Management Regulations





The information in these presentations represents the CAA's interpretation of legislation. It may be found in the future that EASA has a different interpretation and so the CAA's position may change following discussion and agreement with the Agency and the other National Aviation Authorities.



## **European Aviation Safety Agency**





## What does EASA do?



Expert advice to the EU for drafting new legislation

implement and monitor safety rules, including inspections in the Member States

type-certification of aircraft and components, as well as the approval of organisations involved in the design, manufacture and maintenance of aeronautical products

authorization of third-country (non EU) operators

safety analysis and research

## Legal Framework



## Regulation 216/2008 (EASA Basic Regulation)

 Article 8 (6) Specifies that Air Operations regulations shall "<u>be based on a risk assessment</u> and shall be proportionate to the scale and scope of the operation".

## EASA 'Rulemaking Procedure'

 Article 5 Specifies that the drafting of rules shall take into account "<u>risk assessments performed</u> and available data"

## **Obligations under the Chicago Convention**



#### SMS

- ORO.GEN.200 Management system
- AMC/GM

#### **Fatigue management**

- Prescriptive scheme (under an SMS)
- FRMS
- Prescriptive scheme combined with FRMS



## EASA objectives



Establish and maintain a high <u>Uniform</u> level of civil aviation safety in Europe

Provide a **level playing field** for all actors in the internal aviation market

Ensure a high uniform level of environmental protection

Facilitate the free movement of goods, persons and services

Promote cost-efficiency in the regulatory and certification processes

Assist Member States in fulfilling their obligations under the Chicago Convention

Promote Community views regarding civil aviation safety standards and rules

## **Risk Assessment not Negotiation**

Proposed work plan	Topics	Remarks
#1 Kick-off 10/01/2013	Rulemaking	$\checkmark$
#2 06-07/03/2013	<ul> <li>Identify hazards &amp; possible mitigations</li> <li>Identify specific areas single-pilot ops</li> <li>Presentation of DNV/Circadian survey</li> </ul>	$\checkmark$
#3 07-08/05/2013	<ul> <li>Identify hazards &amp; possible mitigations</li> <li>Identify specific areas single-pilot ops</li> <li>Presentation of other relevant data</li> <li>Identify RIA options</li> </ul>	$\checkmark$
#4 26-27/06/2013	Discussion of RIA options	
#5 (03)04-05/09/2013	Review of RIA elements and retained options	
#6 14-15(16)/10/2013	Review of draft proposals	
#7 20-22/11/2013	Review of draft proposals and NPA	

Civil Aviation

## **Basics of Risk Management**



Risk = Probability x Severity

Mitigation = Prevention + Protection



### Risk Based FTL Drafting

(1) Identify Hazards, Undesirable States, Scenarios





#### Risk Based FTL Drafting (2) Identify Mitigating Measures





#### Risk Based FTL Drafting (3) Define Options





#### **Risk Based FTL Drafting** (4) Prepare RIA & Select Options







## **Example of Fatigue Mitigations**

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1.	. Duty Extension with inflight rest					
Hazard Ref.	Applicability	Fatigue Hazard Description	Possible Mitigation Measures			
<u><u> </u></u>	ΑΤΧΟ	Flight sectors beyond maximum FDP	Consistent in-flight relief planning Augmented flight crew (to be defined) Minimum rest period on-board requirement Extension of FDP dependent on type of on-board rest, facilities and number of additional crew members carried Use of departure window to optimise crew alertness during critical phases of flight Requirement of prior notification of crew position for optimal rest planning (operating or relief crew) Limit the number of sectors Minimum rest at destination Minimum rest at home base following extended FDP Limit the number of TZC in a set period Calculate the extension for each crew member depending on the sleep duration (as several Member States do)			
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## **FRM in Europe**



#### FRM should be integrated in Safety Management System



#### FRM not mandatory, but when required by the Regulation:

	Authority approved	Incorporate scientific principles and knowledge	On-going process	Ensure remedial actions	Correspond to the specific operation
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# **Current Stage in Developing EU FTL regulations**



- EU FTL regulations will eventually cover all areas where crew member fatigue is required to be managed.
- The regulations were published on 29 January 2014 in the European Official Journal as Commission Regulation (EU) No. 83/2014 amending Regulation (EU) No. 965/2012.
- The EASA Decision material Certification Specifications, Acceptable Means of Compliance and Guidance material has been published on the EASA website.
- The regulations will become applicable on 18 February 2016.

## **Applicability of Subpart FTL**



- The current 2014 amendment for FTL to these regulations applies to CAT operations with Aeroplanes <u>but</u> permits a derogation for air taxi, emergency medical service and single pilot CAT so that these areas remain under EU-OPS and national provisions
- The UK will register with the Commission, under the provisions within the recitals of EU-OPS, that it will use either CAP 371 or the new regulations for air taxi operators
- EMS and single pilot will remain under national provisions

## **FTL Approval**



- The CAA remains the competent authority for issuing FTL and FRM approvals and for ongoing oversight
- All current variations will be revoked when the operator is issued with an approval in accordance with Subpart-FTL
- Any request for a derogation or an individual FTL scheme will need to be first approved by the CAA in accordance with the flexibility provisions of the Basic Regulation

## Schedule for on-going FTL tasks



Publication Dates (indicative)	TOR	NPA	Consultation closure	CRD & Opinion (or Decision if only CS)	Decision after Opinion
A & H EMS RMT.0346	2012 18 April	2014 Quarter 3	December 2014	2016	One year later
A Air Taxi RMT.0429	2012 21 August	2014 Quarter 3	December 2014	2016	One year later

## Summary



**Operators Responsibilities place specific demonstrable requirements on ensuring crew remain sufficiently free from fatigue under SMS** 

FRM required in specific areas or where derogating from the prescriptive rules

Fatigue management training mandatory

FTL scheme approval remains with the CAA



#### Thank you for your attention!