

SMS Considerations for Small Operators



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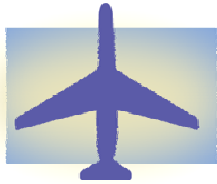
EASA SMS Workshop – Jan. 16, 2008



Presentation Outline

- **Business Aviation SMS Experience**
 - IS-BAO – an International Standard for Business Aircraft Operations
 - IS-BAO SMS Model
 - Lessons learned
- **Rulemaking considerations**





IS-BAO

- IS-BAO an International Standard for Business Aircraft Operations
- Developed by the industry for the benefit of the industry
- As a professional safety code of practice for operators world-wide





How Was it Developed?

- Developed by IBAC, its Member Associations and operators
- Two years development and testing
- Strong support from participating flight departments

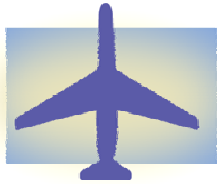




Basic Principles

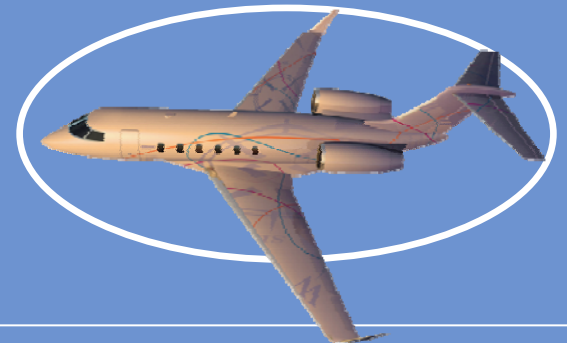
- A set of performance based and process oriented standards
- Integrates safety, security, efficiency & effectiveness
- Uses principles of ISO 9000 family of standards

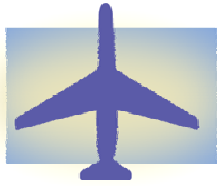




Safety Management System (SMS)

- Cornerstone of performance based standard
- Operator uses their safety-risk profile to develop appropriate and effective policies, programs, procedures and manuals
- Designed specifically for small operations
- Gap analysis process





Safety Management System (SMS)

“The systematic and comprehensive process for the proactive management of safety-risks that integrates the management of operations and technical systems with financial and human resource management”



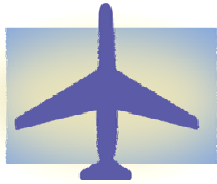


Safety Management System

Objective - To reduce risk to a level as low as reasonably practicable

Function – To optimize safety performance in an operational and business environment





SMS Components

- Company Culture
- Safety Policy
- Safety Risk Profile
- Safety Management Strategy
- Documentation, Training etc.
- Hazard Identification & Tracking
- Change Management System
- System Audits



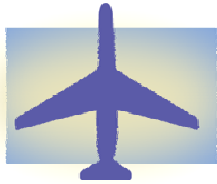


Company Culture

➤ Corporate Safety Culture

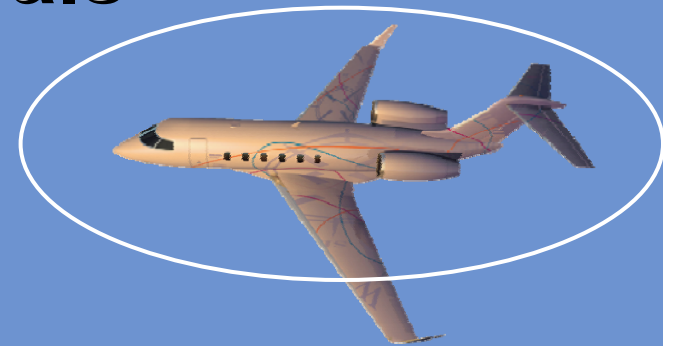
- Informed culture
- Learning culture
- Reporting culture
- Just culture





Safety Policy

- Foundation of the SMS
- Accountabilities and responsibilities
- Safety Performance Targets
- Safety Objectives and Goals

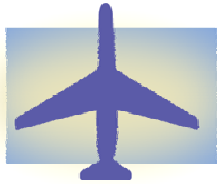




Safety Risk Profile

- Identifies the hazards and related risks inherent in the operation
- Drives safety management activities
- Template process for small operators
 - Operational
 - Technical and
 - Human factors
- Dynamic document

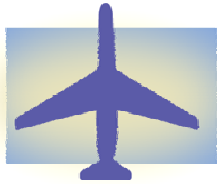




Safety Management Strategy

- Mitigation to eliminate hazards, or
- Reduce risk to as low as reasonably practical – ALARP
- Relate to accountabilities
- Can include personal minimums checklist

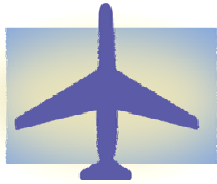




Documentation & Training

- SMS included in Operations manual
- SMS linked to other manuals and procedures
- Training is part of informed and learning culture





Hazard Identification & Tracking

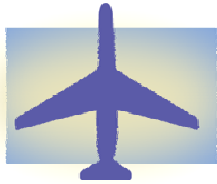
- Identify emerging hazards and associated safety-risks
- Feedback loop to ensure SMS is appropriate and effective
- Appropriate to the size and complexity of the operation
- Must involve all in the operation
- Just culture is essential



Change Management System

- Keeps safety management activities current and relevant
- Effectively manage changes in operation

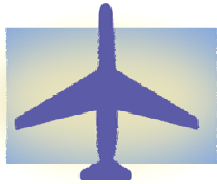




System Audits

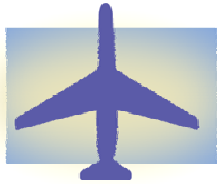
- Use to measure safety performance and goal achievement
- Larger operators can have internal audit program and performance measurement systems
- Focus on soundness, appropriateness and effectiveness of SMS





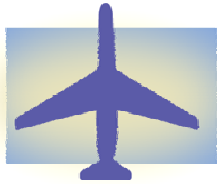
Lessons Learned

- SMS must be appropriate to the size and complexity of the operation
- SMS is a management system and must be compatible with other management system elements
- Enhanced operational safety, efficiency & effectiveness



Rulemaking Considerations

- **Stress SMS objective:**
To reduce risk to a level as low as reasonably practicable
- **SMS must be appropriate to the size and complexity of the operation**
- **Education is very powerful approach**



Thank You



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