Implementing Effective SRM Process

5th Safety Summit 26th - 28th Nov 2024 Kuwait



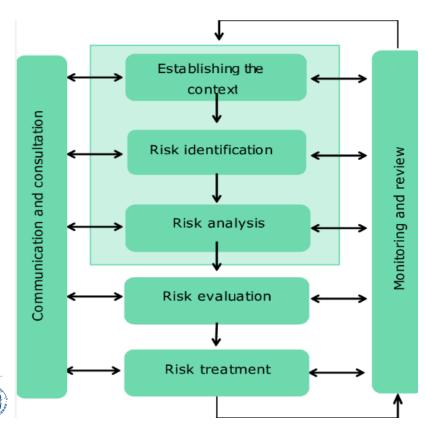


State Safety Risk Management

- States shall establish and maintain a process to identify hazards from collected safety data.
- ☐ States shall develop and maintain a process that ensures the assessment of safety risks associated with identified hazards.



Safety Risk Management (SRM) Framework



State needs to establish SRM Framework, which would enable the risk-guided modus operandi

would help State allocate its resources intelligently in line with its mission across the air transport system and all organizational functions

- Making sure all possible safety data and safety information could be captured and utilized
- Creating a holistic risk picture at various levels of aviation system
- Prioritization based on risk.

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Safety Risk Management Framework Principles



Ensures that the SRM process supports State decision-making and would enable proactive SRA

Systematically prioritizing resources towards the most significant safety risks

helps States meet ICAO SSP requirements pertaining to State SRM as prescribed in ICAO Annex 19 requirements

MIDANPIRG 21 and RASG-MID 11

Safety Risk Management Governance

Management and execution of the SRM Process is supported by decisions, intelligence, actions and resources at all levels of the SSP, throughout the lifecycle of the process.



Example

Safety Dta Analysis & Monitoring Team

Safety Risk Assessment & Advisory Groups (SRAAGs)

State-Industry Collaborative Risk Workshop Groups (CRWGs)

Safety Risk Steering Committee (SRSC)



Aviation Domains







Commercial air transport fixed-wing operations (OPS CAT FW) Commercial air transport rotary wing operations (OPS CAT RW) Air navigation services (ANS/ATM) Aerodromes and ground aids (ADR) Ground handling (GH) Fight training (ATO) General and recreational aviation (OPS GA) Commercial air transport airworthiness (AIR CAT) Security

Safety Risk Management Process

- Enables risk assessment and mitigations of significant safety risks.
- SRM process and its supporting tools to be developed to consider, prioritize and manage strategic safety risks.
- The SRM process to be used with both internal and external stakeholders where management of safety risks is undertaken collaboratively with industry partners.





An Integrated Approach-SRM

- The SRM process is driven by inputs and outputs from a variety of stakeholders throughout State's aviation system
- SRA work relies on the involvement and expertise of State SMEs in all areas as well as industry experts and the data available to them as it focuses on the identification of system risks







Safety Data & information Integration

Surveillance Programme Integration

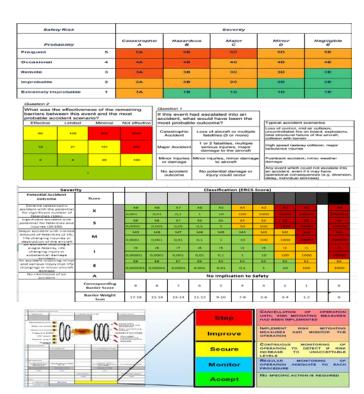
Industry integration

Risk Assessment Methodologies-Examples

- 1. Traditional Safety Risk Assessment
- 2. ARMS- Event Risk Classification (ERC)

3. European Risk Classification Scheme (ERCS)

4. ARMS- Safety Issue Risk Assessment (SIRA)



Safety Risk Register														Group					
Domain/Sector	Source	Occurrence Classification	Occurrence Category	Remaining Risk Controls	Prob Severil	- ;	Safety Issue Status	Ssafety Issue ID	Safety issue (SI) title	Hazard Generic Term	Hazard Specific Term	Consequence and Potential Outcome	Preventing Risk controls	Recovery Risk Controls	SIRA double doub	Risk Owner	Target Date	Completed Date	Monitoring and revi date
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Safety Risk Register

- A safety risk register is a systematic and comprehensive tool used to identify, assess, and categorize safety issues/hazards and risks associated with aviation operations:
 - are list of safety issues that need to be mitigated at State level.
 - form an essential component of the SRM process.
 - serves as a knowledge base for stakeholders,
 - enhancing communication and collaboration between regulatory bodies and industry partners



Safety risk mitigation strategies

- Avoidance: The operation or activity is cancelled or avoided because the safety risk exceeds the benefits of continuing the activity, thereby eliminating the safety risk entirely.
- **Reduction:** The frequency of the operation or activity is reduced, or action is taken to reduce the magnitude of the consequences of the safety risk.
- **Segregation**: Action is taken to isolate the effects of the consequences of the safety risk or build in redundancy to protect against them.

Generate Creative Ideas for Safety Risk Mitigation Measures

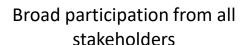




Requires creativity, ingenuity and above all, an open mind

Consider all possible solutions







Thinking outside the "box"

The results of the SRM Process at State Level



National aviation safety plan (NASP) update



Selection of priorities for the oversight plan and planning of oversight



Updating the national SPIs and assessments of service providers' performance



Selection of priorities for safety promotion and planning of promotion



Prioritization and content of aviation events organized by state

