DASR SMS

Invoked in MDOA requirements
Scope of DASR SMS

• Regulation
  – ICAO Annex 19

• Assurance
  – Maturity level
  – Maturity indicators
Safety Management System

Defence Aviation Safety Regulation (DASR)

Basic Regulation

Implementing Regulations (IR)

Proposed in NPA2

DASR 21 (Aircraft Design, Production and Certification)
DASR 145 (Requirements for Production and Certification)
DASR 66 (Aircraft Aircraft Maintenance Licensing)
DASR 147 (Aviation Management in Aviation Operations)
DASR FSTD (Flight Simulation Training Devices)
DASR ADR.Gen (Design Requirements for Aircraft)
DASR ARO (Requirements for Aircraft Operators)
DASR SRoA (Requirements for Aircraft Owners)
DASR SMS (Safety Management Systems)
DASR ASMS.Gen (Airworthiness Management Systems General)
DASR User Guide

DASR ADR.Gen (Design Requirements for Aircraft)
DASR ASMS.Gen (Airworthiness Management Systems General)
DASR User Guide

DASR SMS (Safety Management Systems)
DASR ASMS.Gen (Airworthiness Management Systems General)
DASR User Guide
Safety Management System

- ICAO Annex 19
- Safety management system (SMS). A systematic approach to managing safety, including the necessary organizational structures, accountabilities, policies and procedures.
- Safety. The state in which risks associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.
Safety Management System

• Process regulation provides a minimum level of protection against hazards that threaten safety, with overall effectiveness limited by technical, organisational, environmental and human factors.

• A safety management system provides a higher level of safety by supporting and extending the protection afforded through process regulation alone.
Safety Management System

- Financial management
- Bankruptcy
- Safety space
- Catastrophe

Protection vs. Production
Safety Management System

• DASR SMS (proposed for NPA 2)
  – The organisation shall establish and maintain a Safety Management System (SMS) maturity level that is acceptable to the Authority.
  – The organisation’s SMS shall include the key components of:
    • an organisation’s safety policy and objectives
    • safety risk management
      – includes specific guidance for MDOA holders
    • safety assurance
    • safety promotion
Safety Management System

- **Organisation's safety policy and objectives:**
  - a nominated Accountable Manager, who will be accountable to the NMAA for the Organisation’s SMS
  - the Accountable Manager’s commitment to the SMS
  - the appointment and responsibilities of key safety personnel
  - relevant third party relationships and interactions
  - the coordination of emergency responses;
  - SMS documentation.

- **Safety risk management system:**
  - hazard identification
  - risk assessment and mitigation processes for the mitigation of risk or identified hazards.

- **Safety assurance system:**
  - safety performance monitoring and measurement
  - the management of change
  - continuous improvement of the performance of the SMS

- **Safety promotion system:**
  - education and training
  - safety communication
Safety Management System
Certification / Satisfaction

Non Compliance / Non Conformance

Process based DASR

Time
Time

DASR SMS

Maturity / Performance

Certification / Satisfaction

Lack of effectiveness
Safety Management System

• Assessment
  – ICAO based
  – Safety Management International Collaboration Group (SMICG) based
  – Uses responses from all levels of the organisation

• Note: A lack of rating in a indicator does not infer that an SMS is unsafe; it may mean that the associated SMS element is being implemented and/or developed.
Safety Management System

- **P** - Present
- **S** - Suitable
- **O** - Operating
- **E** - Effective

- **X** - Innovative and best practice (Aspirational)
**Scores by Regulation Component**

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**AMO Maturity Curve**

- Phased milestones
- Maturity curve
- Straight line

- **1 yr:** Phase 1 & 2 (24%) at 1 year; Phase 3 (68%) at 3.5 years; 90% at 5.5 years; Phase 4 at 7 years
Questions?