Functions of a traditional SPO
DASR 21 vs. DASR M

Presenters: CMDR Steven Arney & Kylie Mikkor
Initial vs Continuing Airworthiness

- **Initial Airworthiness (& **Continued**):**
  - Type Design
  - Certification
  - Production
  - Design changes post initial type certification

- **Continuing** Airworthiness:
  - All of the processes ensuring that the aircraft:
    - complies with airworthiness requirements
    - is in condition for safe operation
    - Supported within a ‘**Controlled Environment**’
Organisational Responsibilities

• **DASR 21J** – Design Organisation
  – Initial design and changes to type design
  – Provide approved designs to CAMO

• **DASR 21G** – Production Organisation
  – Production of aeronautical product
  – Maintain production organisation in conformity with approved data and procedures
  – Provide statement of conformity

• **DASR M** - Continuing Airworthiness Management Organisation (CAMO)
  – Individual aircraft Configuration Management
  – Fleet maintenance planning
  – Management/approval of modification / repairs onto individual aircraft
  – Maintenance system – including Release to Service
  – Airworthiness reviews – product configuration sampling

• **DASR 145** - Maintenance Organisation
  – Maintenance of aircraft and components (inclusive of repair embodiment)
Military Air Operator (FEG or Equiv)

Accountable Manager (FEG CDR)

Operations

Quality & Safety

CAMO

MDOA (Contractor)

MDOA
(MTCH)

145 AMO

145 AMO (Contractor)
Indicative responsibilities of CAMO, 21J Design and 145 AMO against TAREG AEO and AMO

- Accomplishment of maintenance
- Management of defects
- Coordinate scheduled maintenance
- Aircraft continuing airworthiness record system
- Weight and balance and symmetry
- Occurrence reporting
- Pre-flight inspection (maintenance pers component)
- Aircraft technical log
- Maintenance check flights

- Airworthiness review (not conducted under TAREG)

- Aircraft Maintenance Programme
- Analysis of AMP
- Reliability Programme
- Accomplishment of maintenance (contracting)
- Airworthiness Directives
- Occurrence reporting (analyse defect reporting)
- Weight and balance and symmetry

Any approved Design Organisation may apply for approval of a minor change to a type design.

Designs that impact TC

16 AVN BDE
HQFAA
FEG/WING

DASR 145
Line Maint. (away base support)

DASR 145
Base Maint. (DM Facilities)

DASR M
Continuing Airworthiness Management Organisation

DASR 21J
Design Organisation
HOD (SDE)
MTCH (DAR)

Current Defence AMO

Current Defence AEO

DASR 145
Responsible Manager (RM) (SMM)

DASR 145 Organisations

Request for designs
SB’s

Props Engines

Components
Propulsion
Engines

Part 21
Part 21

Base Maint.
(DM Facility)

Part 21
Base Maint.
(DM Facility)

DASR 145
Base Maint.
(DM Facilities)

Part 145
Line Maint.
(away base support)

Part 145
Line Maint.
(away base support)

DASR 145
Line Maint.
(away base support)

DASR 21J Organisations

Accomplishment of maintenance
Management of defects
Coordinate scheduled maintenance
Aircraft continuing airworthiness record system
Weight and balance and symmetry
Occurrence reporting
Pre-flight inspection (aircrew component)
I work in an AEO – now what?

• TAREG AEO ≠ DASR 21 MDOA holder
• A SPO or organisation who holds an AEO certification under the TAREGs **may:**
  – Become a DASR 21 MDOA holder; and/or
  – Perform CAM Functions (on behalf of a DASR M CAMO); and/or
  – Perform other functions regulated under other Parts of DASR; and/or
  – Perform other functions not regulated under DASR at all.
TAREG vs. DASR Approval

- **Under TAREG**
  - Organisations are regulated/approved
    (and by implication the functions they perform)

- **Under DASR**
  - Functions are regulated/approved
    (and by implication the organisations who perform them)
SPO Organisational Approval

- A SPO will not have a single organisational approval from the Authority covering all the functions they perform.
- Someone working in a SPO will still do the same work under DASR
  - But they may be performing tasks on behalf of different regulated entities
DASR 21 MDOA Functions

• Functions of DASR 21 MDOA holder:
  – Management of the Type Certificate (MTC) and Supplemental Type Certificates (MSTC)
    • Review of technical information pertaining to defects, failures and malfunctions which may adversely affect the airworthiness of the design (subset of TIR)
    • Develop Airworthiness Directives (development of technical content for STIs)
    • Furnish and maintain manuals/instructions required by the type-certification basis and for continuing airworthiness (management of ICA)
  – Repair Designs
    • Development of repairs and embodiment instructions (design aspect of deviations)
    • Determination of airworthiness impact of unrepaired damage
DASR 21 MDOA Functions

- Functions of DASR 21 MDOA holder:
  - Changes to Type Design
    - Classification of changes in Type Design
    - Development, verification of compliance and approval for minor changes to the Type Design (Design Develop, Review, Approve and Accept)
    - Development and verification of compliance for major changes to the Type Design (Design Develop, Review & Approve)
    - Changes to airworthiness limits in ICA (Changes to AMD/Flight Manuals)
    - Control of partners/sub-contractors (DSN review and management)
  - Designs to meet AUSMTSOs
Aircraft Continuing Airworthiness Record System
Accomplishment of Maintenance
Aircraft Maintenance Program
Management of Defects
Airworthiness Review
Pre-Flight Inspection
Reliability Program
Analysis of AMP

**CAMO Tasks**

Occurrence Reporting
Aircraft Tech Log
Airworthiness Directives
Maintenance Check Flights
Modification, Repair & Inspection
Coordinate scheduled maintenance
Weight & Balance/ Symmetry Checks
So what is the role of the CAMO?

On behalf of the ‘Operator’ (MAO) the CAMO is to ensure that the various aircraft ‘Tail Numbers’ are:

- Of the correct Configuration (IAW MTC)
- Available to meet the intended purpose
- Safe to fly (ie Airworthy)
DASR M Transition Requirements
Presenter: CMDR Steven Arney
CAMO Transition

Approvals Under DASRs

- FEG or Equivalent
  - CAMO DASR Part M
  - MSA or other agreement

- ADF SPO
  - Functions on behalf of CAMO

- TLS Contractor
  - Functions on behalf of CAMO

Example and Guidelines for a:
DASR M CONTINUING AIRWORTHINESS MANAGEMENT ORGANISATION EXPOSITION
SAMPLE EXPOSITION