

Australian Government

**Civil Aviation SafetyAuthority** 

CASA Surveillance Manual

Annex 7

# Approved Design Organisations and Authorised Persons for Design Approval

### Introduction

This annex is an integral part of the CASA Surveillance Manual (CSM), which should be referenced at all times. To allow for more frequent revisions, this annex can be updated independent of the CSM and other annexes. The process of updating this annex requires verification and approval from its owners and sponsors, as well as from Coordination and Safety Systems (CSS). An updated version can only be published once CSS has finalised the format, with the latest revision history data included in the revision table.

## **Revision history**

Version Nº.	Date	Parts / sections	Details
6.0	January 2023	Section 4	SAP BO changed to Power BI, Removal of references to Design Certificate Holders
5.0	December 2019	Section 2.3	Change of where to locate Health Check mandatory elements
4.0	April 2019	Inclusion of Introduction and Revision history.	These inclusions allow for updates and revisions independent of the CSM and other annexes.
4.0	April 2019	Section 2.1	Removal of recommended Health Check timeframes.
4.0	April 2019	Section 3	Removal of recommended surveillance intervals.
4.0	April 2019	Section 4	Addition of third-party audits.

Revisions to this annex are recorded below in order of the most recent first.

## 1 Overview

This Annex provides instructions for conducting surveillance of CASR Subpart 21.J Approved Design Organisations and Authorised Persons for CASR 21.095, 21.006A, 21.007, 21.009, 21.120B and Subpart 21.M and contains information relating to the following:

- Systems and Elements
- Systems and Elements Health Checks
- Surveillance Currency Guide
- Information Sources.

## 2 Systems and Elements: Approved Design Organisations and Authorised Persons for Design Approval

The audit technique involves assessing the documented system and comparing it against the actual system processes. The system is assessed for compliance and sampling conducted as appropriate. The assessment of the system is achieved by a questioning technique using the four attributes (12 components) of the Management System Model (MSM), see CSM Sections on System attributes – Management System Model and Systems attributes (table).

## 2.1 CASR Subpart 21.J Approved Design Organisations

Systems	Elements
ADO Activity	Approval Activity
	Advice Activity
	Certification activity
	Experimental Certification Activity
	Facilities, Tooling and Equipment
	Data and Documents
Administration	Engineering Operations
	Personnel Standards
	Exposition
Design Assurance	Design Assurance System
	Quality Assurance
	Subcontractors
	Coordination with other ADOs

#### Table 1: System and Elements

#### Table 2: ADO Elements

ELEMENT: Approval Activity         This element includes all personnel, documentation and processes for carrying out aircraft or aircraft component design approval activities.         Prompts:         Approval activity procedures       Approval of technical data         Subcontractor management       No unsafe features         Project coordination       Design Advice         Document configuration control       Approval Document         Technical Data       Activity within scope of approval certificate         Testing       Major/minor determination         ELEMENT: Advice Activity       This lement includes all personnel, facilities, equirminor determination and processes for carrying out advice activities.         Prompts:       Advice activity procedures       Technical Data         Advice activity procedures       Technical Data       Subcontractor management         Advice activity procedures       Technical Data       Subcontractor management         This element includes all personnel, facilities, equipment, documentation and processes for carrying out certification activites.       Prompts:         Certification activity procedures       Testing       Subcontractor management         Activity within scope of approval certificate       Propetice coordination       Testing         Subcontractor management       Activity within scope of approval certificate       Promptice	SYSTEM: ADO Activity			
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	Adequacy for all activities	Calibration		
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	Storage	Training on specialist tools/equipment		

# **CASA Surveillance Manual**

SYSTEM: ADO Activity		
Maintenance	Subcontracting	
Persons responsible	Independent Monitoring	
ELEMENT: Data and Documents		
This element includes all technical references and data, approval documents, design drawings, regulatory documentation and quality/procedures manuals used in the course of carrying out design, certification, advice and experimental certification activity.		
Adequacy for all activities Borrowing/Lending		
Availability Records retention		
Storage	Persons responsible	
Amendment Level Control	Independent monitoring	

#### Table 3: Administration Elements

#### **SYSTEM:** Administration

#### **ELEMENT: Engineering Operations**

This element addresses the systems that ensure that ADO contains its engineering operations to those authorised by legislation and its certificate of approval; and is adequately resourced to carry out those operations. This is primarily achieved through the use of properly structured organisation with appropriate responsibilities and communication channels. Appropriate key personnel such as Accountable Manger and Head of Design are key links for ensuring engineering operations are appropriately controlled.

Prompts:		
Organisational structure, roles and responsibilities	Support staff	
Key management positions	Organisation change management	
Adequate number of personnel	Procedure change management	
Adequate facilities	Independent monitoring	
ELEMENT: Personnel Standards		

The ADO is required to maintain sound and effective management structure that incorporates a design assurance system. The standard of engineering personnel, including third party providers, is required to be documented detailing qualifications, knowledge and experience as well as ongoing professional development.

#### Prompts:

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Accountable Manger	Head of Design	
Periods of absence of key personnel	Subcontractors	
Persons who carry out activities listed in ADO certificate – candidate identification and training	Persons who carry out activities listed in ADO certificate – Professional development program	
Persons who carry out activities listed in ADO certificate – candidate assessment for qualifications, training and competency	Individual workload	
Persons who carry out activities listed in ADO certificate – candidate appointment	Independent monitoring	
ELEMENT: Exposition		
This element includes contents of exposition and changes to exposition.		
Prompts:		
Changes to exposition	Changes to scope of approval certificate	
Communications	Record keeping	

#### Table 4: Design Elements

SYSTEM: Design Assurance			
ELEMENT: Design Assurance System			
This element includes the systems and processes that the ADO uses to carry out the various activities listed in its certificate. It sets out the specific planned and systematic actions and the associated forms and checklists related to conduct of those activities.			
Prompts:			
Compliance assurance	Compliance planning		
Compliance demonstration	Compliance finding		
Ensuring no unsafe feature	Independent checking		
ELEMENT: Quality Assurance			
This element includes the procedures the ADO uses to monitor the effectiveness of its design assurance system.			
Prompts:			
Independent monitoring	Reporting operational and safety concerns		
Frequency of assessment and audits Design assurance system manual configu control			
ELEMENT: Subcontractors			
This element includes all personnel, facilities, equal the authorising and managing the subcontractors.	ipment, documentation and processes for		
Prompts:			
Procedures for authorising subcontractor	actor Element of ADO DASM for which subcontractor is responsible		
Exchange of information between ADO and Tooling, facilities and equipment subcontractor			
ELEMENT: Coordination with other ADOs			
This element includes all personnel, facilities, equipment, documentation and processes for carrying out design activities in coordination with other ADOs.			
Prompts:			
Procedures for coordinating design activities Conditions and limitations			
Scope of design activities carried out by other ADOs Partial or incomplete finding of compliance by other ADO			
Tooling, facilities and equipment	Exchange of information between ADOs		

# 2.2 Design Approval Authorised Persons for CASR 21.095, 21.006A, 21.007, 21.009, 21.120B and Subpart 21.M

The CASA description of Design Approval Authorised Persons consists of one system incorporating two elements.

Systems	Elements
Authorised Persons for	Data and Documents
CASR 21.095, 21.006A, 21.007, 21.009, 21.120B and	Design Approval Activity
Subpart 21.M	

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#### **Table 6: Authorised Persons Elements**

SYSTEM: Authorised Persons for CASR 21.095, 21.006A, 21.007, 21.009, 21.120B and Subpart 21.M			
ELEMENT: Data and Documents			
This element includes all technical data, design drawings, regulatory documentation, maintenance systems and quality/procedures manuals used in the course of carrying out aircraft or aircraft component design approval.			
Prompts:			
Availability / Adequacy (dependent upon planned activities)	Amendment – current amendment service – Ref: CASA ruling No 5/2003 Use of Electronic Data		
Identification	Borrowing/Lending		
Storage	Responsible and accountable		
Handling	Monitoring and improvement		
ELEMENT: Design Approval Activity			
This element includes all personnel, facilities, equipment, documentation and processes for carrying out aircraft or aircraft component design approval activity.			
Prompts:			
Organisational structure, duties and responsibilities	Project management and control		
Infrastructure	Contracting		
Training	Approval process		
Monitoring and improvement	Procedures manual revision		
ctivity within instrument of appointment scope DAMP education and testing			
DAMP supervision			

## 2.3 Health Check

Health Check mandatory elements are available on the CASA Intranet. Details of the current mandatory elements for each authorisation type are published separately to the CASA website.

# 3 Surveillance Currency Guide: Approved Design Organisations and Authorised Persons for Design Approval

Surveillance level	Туре	Elements
Level 1	Systems Audit	Systems and Compliance
	Health Check	Specific Elements and Compliance
	Post-authorisation Review	Entry Control Elements
Level 2	Operational Check	Design and Approval Activity
<b>Note:</b> Surveillance intervals are determined by the National Surveillance Selection Process (NSSP).		

**Note**: Surveillance intervals are determined by the National Surveillance Selection Process (NSSP). Refer to the NSSP planned surveillance schedule for further information regarding surveillance intervals.

## 4 Information Sources

The following is a non-exhaustive list of information sources that can be accessed to support the assessment of an authorisation holder:

- Authorised Person Design Approval Activity Reports
- Authorised Person Design Advice Records
- surveys
- third-party audits
- regulatory history, findings (Safety Findings and Safety Observations)
- past Surveillance Reports and findings (Safety Findings and Safety Observations)
- EAP information
- Defect Report System (DRS)
- Regulatory Service activity
- information gathered by the authorisation holder
- external information gathered from industry or other government agencies
- Enforcement action
- past accident/incident history
- Organisation exposition
- Organisation design assurance system manual.

A large portion of this information is available to the surveillance team and authorisation management team via the Data Warehouse using the Power BI application.

**Note:** For advice on where and how to access required information, refer to CSM Information Capture and Access.