



The Civil Aviation System

System definition through its Stakeholders

Folder 2

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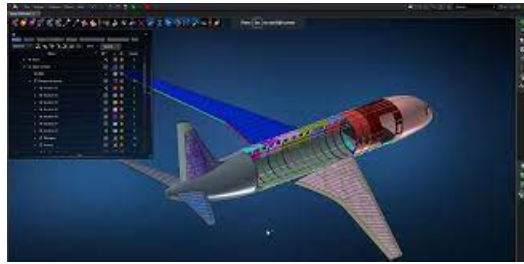
Il Sistema Aviazione Civile

STAKEHOLDERS (Operators/Providers)
overview thru a/c life



CA Operators thru A/C life

OPS



DESIGN



PRODUCTION



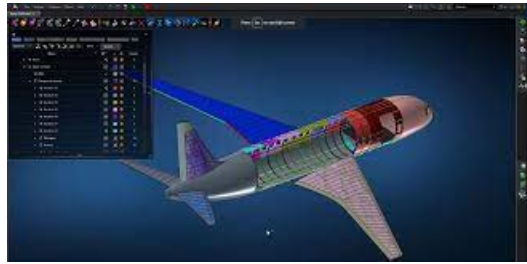
AIRWORTHINESS



MAINTENANCE



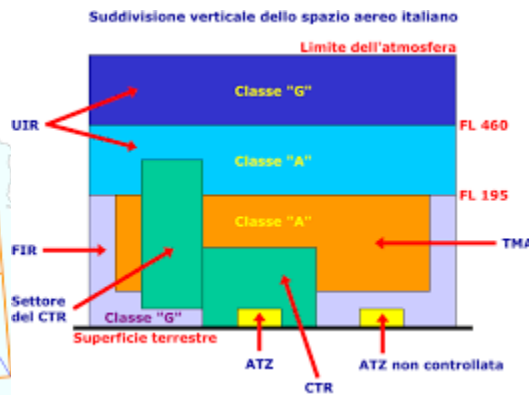
Other Dimensions - Airport, Airspace, Personnell



AIRPORT



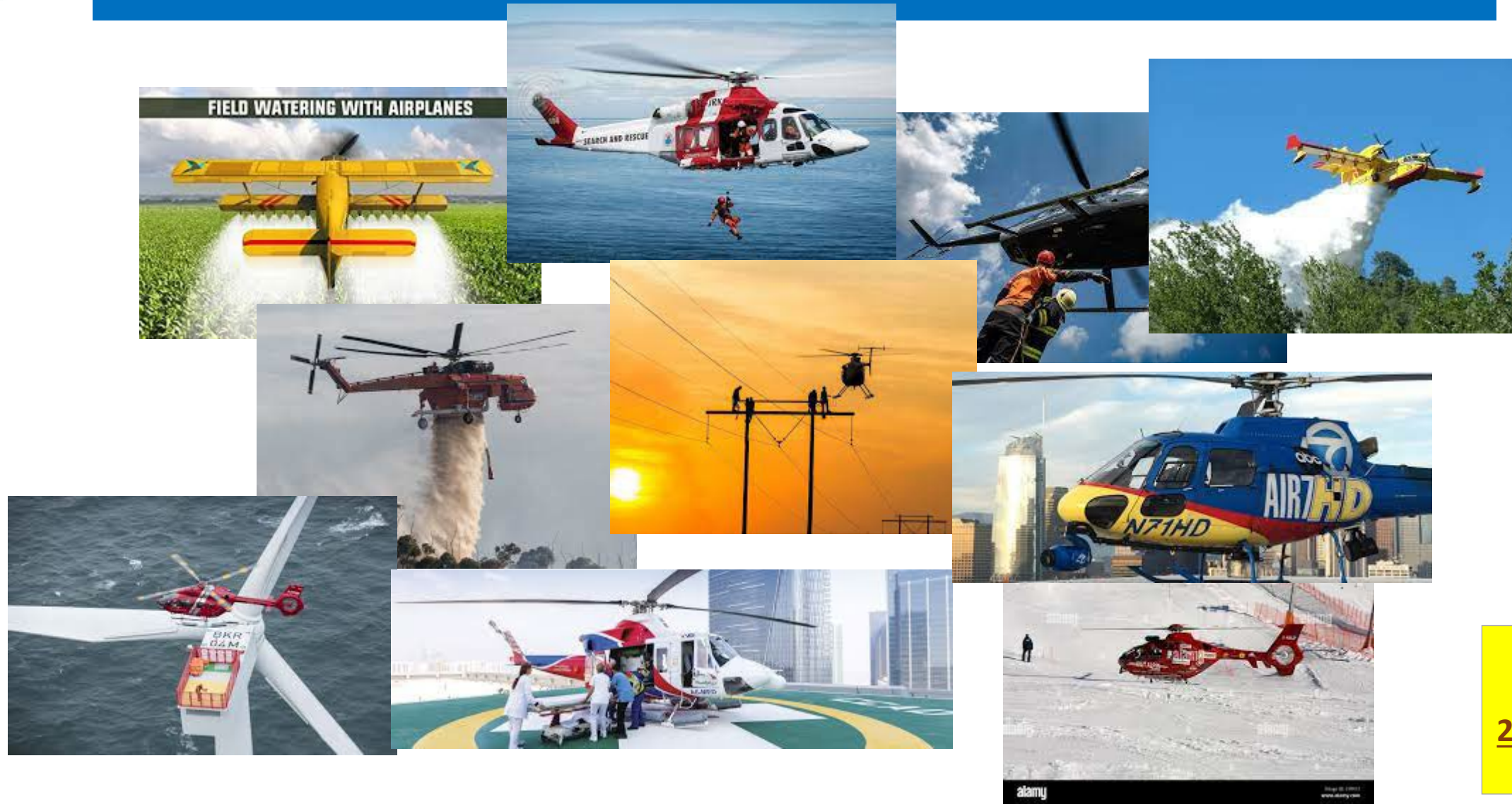
AIR SPACE



PERSONNEL



Air OPS other than Transport





INITIAL AIRWORTHINESS

Initial Airworthiness - Design Organization Approval/Type Certification

Product Control

Process Control

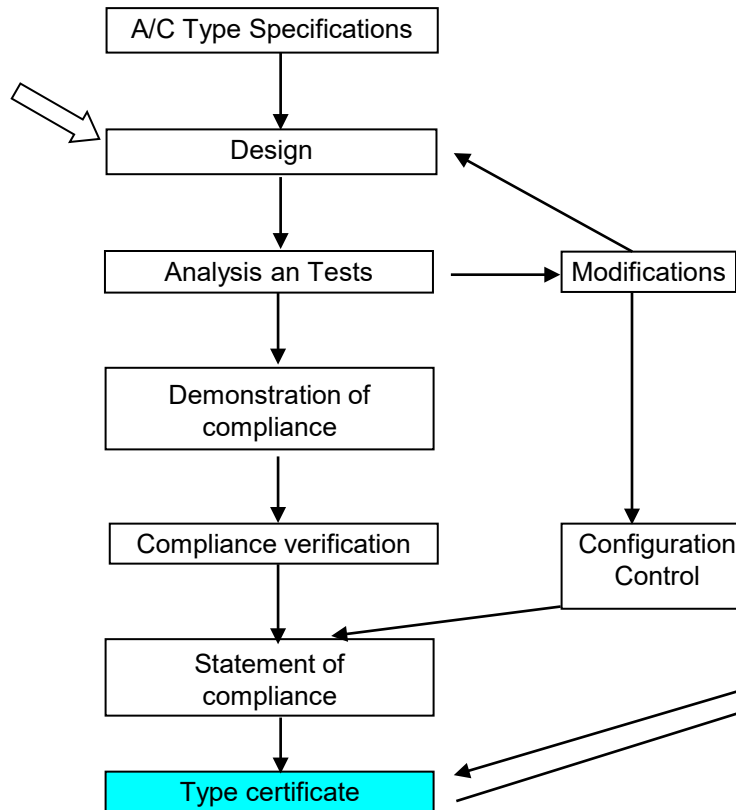
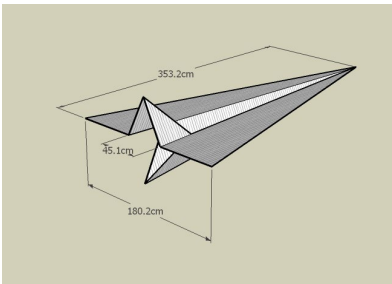
Organization Control

Reg. (EU) 748/2012
Part 21 – Sub J

Design Organization Approval

DESIGN

Airworthiness Requirements
CS (Certification Standards)



TC DOCUMENTS
Certification basis
(Applicable requirements)

Certification Program
Test plan

Compliance reports

Type design

Production documents
Installation documents

HF Principle Implementation

Design Philosophy
(FDI, Automation,..)

Design Assurance Plan
(Task allocation in MMI)

Compliance reports
(Man/Machine System reliability)

Consistency with future modifications

Issue of TC (**Type Certificate**) or STC (supplemental type-approval): for changes proposed by a party other than the manufacturer

EASA/ENAC

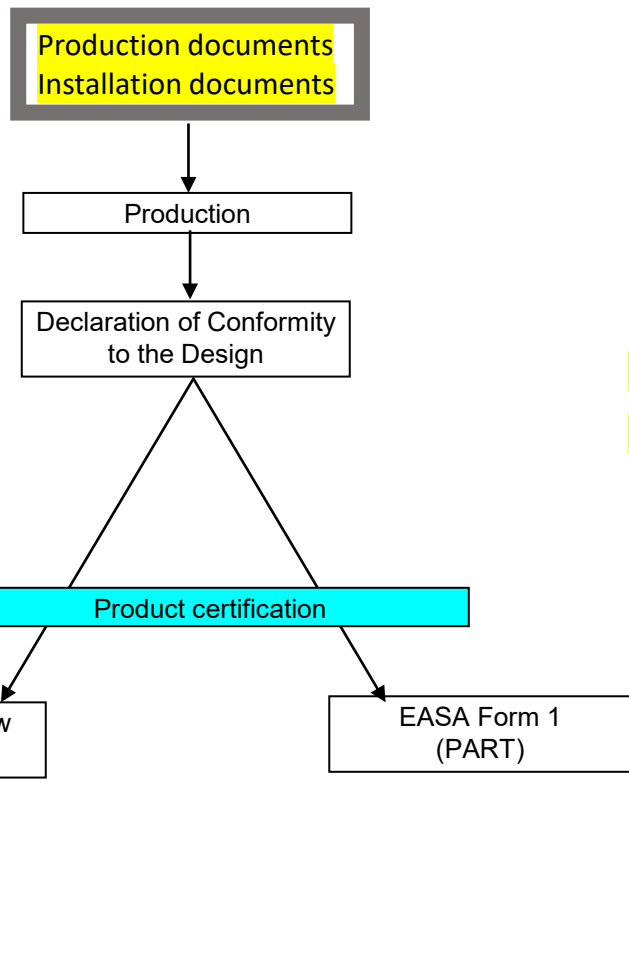


INITIAL AIRWORTHINESS

Initial Airworthiness - Production Organization Approval

Production

EASA/ENAC



Production Organization Approval

Reg. (EU) 748/2012
Part 21 – Sub G

Potential review of installation documents

Release of service bulletin (execution document)





CONTINUED AIRWORTHINESS

Operations and Part-CAMO

Air Operator

Reg. (EU) 965/2012
Annexes I-VIII

- Organization & Responsibility
- Supervision & Control
- Safety & Compliance
- Crew Composition
- Qualification Reqmts
- Crew Health precautions
- FTL
- Flight/Grnd Proc (SOP)
- Dangerous Goods
- Aviation Security
- Incident/Accident
- Aircraft Operating Proc
- Routes & Airports
- Training
- CAMO Interface

Operation

Airworthiness

Note:
Conformity to approved type + Safe utilization

Airworthiness

EASA Form 1
(Spare Parts or Mod Kit)

Compatibility check with other modifications

Assessment on Maintenance Program, MEL, technical applicability for operations.....

Service bulletin

CAMO

Reg. (EU) 1321/2014
Part M

Maintenance program

Component/Systems Failures

MEL

Maintenance program Work instructions/Engineering Orders

Weight & Balance



MEL

Technical Records

A/C DISPATCHABILITY

EASA/ENAC

AUDIT

Operations Surveillance

AUDIT

Airworthiness Surveillance

AUDIT



CONTINUED AIRWORTHINESS

Continued Airworthiness – Maintenance

EASA/ENAC

Airworthiness Surveillance Approval

Installation/Repair

Maintenance Task

WORK ORDERS EXECUTION

Maintenance

Maintenance Organization

Reg. (EU) 1321/2014 Part 145

Tools&Equipment

Approved Data:

Illustrated Parts Catalogue

Maintenance Manuals.

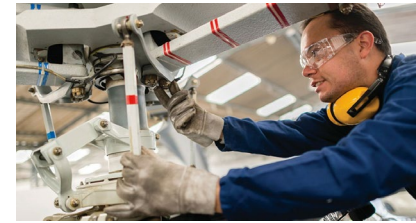
Structural Repair Manual

Engineering Orders

Airworthiness Directives, Service Bulletins

Work Report

Certificate of Release to Service



Training Organisation

Reg. (EU) 1321/2014 Part 66/Part 147

Personnel qualification



AUDIT

Airworthiness Surveillance

EASA/ENAC