ADOA AP379 - AER-TECHNOLOGY

CAO : Catia, Nastran

TSO C184, CS25, DO160, ATA ISPEC 2200

PROCESS MATERIAL

SOFTWARE D0178

HARDWARE D0254

STRESS ANALYSIS

VALIDATION, VERIFICATION

MANUALS

TRANSITION TO PRODUCTION, FAI

DDP, CERTIFICATION PROGRAM

Product development & certification ETSOA

Cabin modification certification CRD, SBs

CHANGE REPAIR DOSSIER, SERVICE BULLETIN / LETTER, MINOR CHANGE, STC

SEATS CONFIGURATIONS

CURTAINS SYSTEMS

CARPETS LAYOUT

GALLEY MODIFICATION

ADOA / POA agreement

Avril 2014

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PRODUCT DEVELOPMENT CERTIFICATION

Product development project management.
Our team handles the development of cabin interior product through the different design reviews and project mlilestones.

Electronics and Hardware development:
Levels E,D / DO254
We implement all the different phases of the hardware development from requirements collection, to the conceptual design and FMEA, the detailed design and prototyping, the transfer to production with acceptance procedures, the validation and verification phases and the serial production. Our Configuration and management rules allows an efficient management of the product during its life cycle.

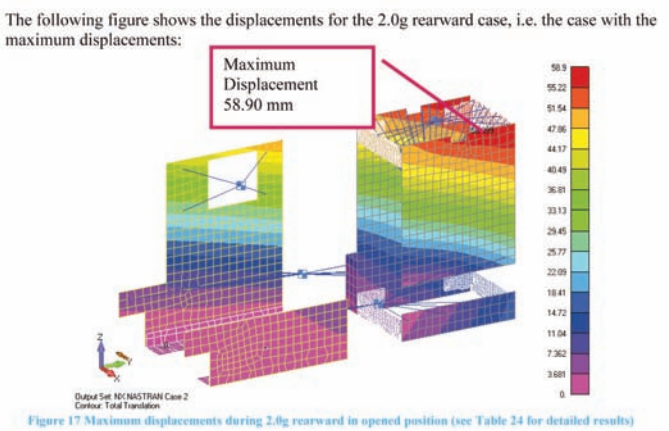


Figure 17 Maximum displacements during 2.0g rearward in opened position (see Table 24 for detailed results)

Software development: Levels E,D / DO178.

Material specification & development:
We have developed the knowledge to write specification for designing cabin materials (carbon/epoxy complex, technical fabrics), as to design parts with most of materials : Silicone, carbone and composites, aluminium, plastics (Polyamid, polycarbonate...), technical fabrics (kevlar, nomex...).

Process specification and development:
Written against our ADOA manual, we have documented processes and guidelines to design parts produced against different process : machining, thermoforming, composite assemblies, plastic moulding, plastic and aluminium pleating, aluminium anodic coatings, painting.

Manuals:
Trained to ATA iSpec 2200, we are capable to develop the CMM in accordance with the maintenance and logistics engineering performed on the product.

DDP & Certification program:
We develop and maintain the DDP and the certification programme during the product life cycle.

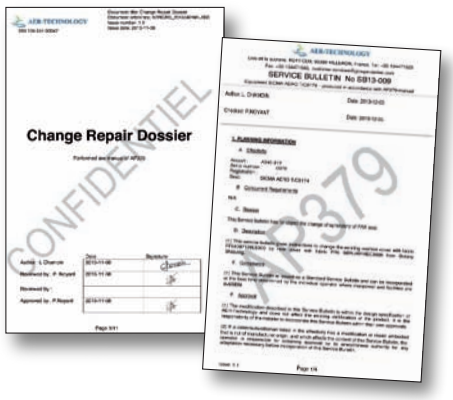

European Aviation Safety Agency

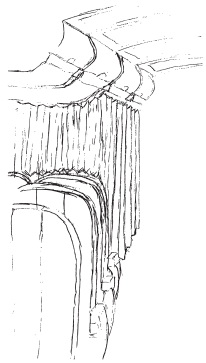
EUROPEAN TECHNICAL STANDARD ORDER
(ETSO) AUTHORISATION
EASA.21O.10044085

AER-TECHNOLOGY

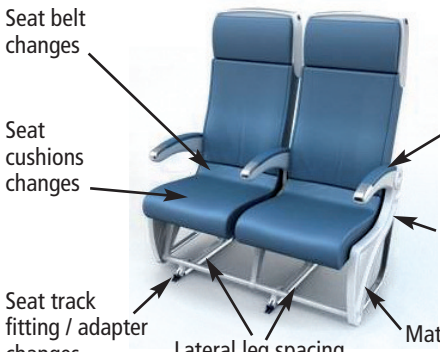
CABIN MODIFICATION CERTIFICATION

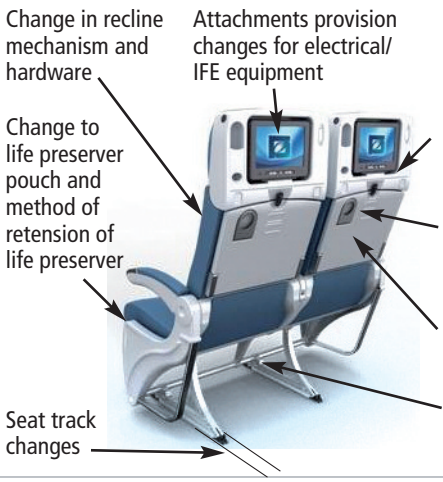
Together with our customer, we establish the certification basis of the aircraft (CS25 & CRI) and we define the pre-mod and the post-mod to get a clear understanding of what is the scope of the change. In any case, it shall remain under the responsibility of the organisation that implements the change to check that the aircraft conforms to the pre-mod.
Once the change is clearly defined, we start the establishment of the Change / Repair Dossier, its justification dossier as the writing of the SBs and the change instructions documentation, together with manuals amendments to get the change certified.




Integration of a mobile crew rest

Minor changes on seats





Layout change