



## ETSO Workshop 2007 Minor Change

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European Aviation Safety Agency

## Overview

- Minor Change Definition
- Minor Change Approval?
- Assessment principles
- Examples
- Extending existing approval
- Liaison with EASA

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## Minor Change Definition 21A.611

- A minor change is a change which is not major.
- Any design change by the holder of the ETSO authorisation that is extensive enough to require a substantially complete investigation to determine compliance with an ETSO is a major change.

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## Minor Change Approval Process

- Can be done without further authorisation by the Agency.
- Conditions:
  - ✦ Same model name
  - ✦ Part number or mod status is included in the existing authorisation e.g. by use of open brackets
- Actions:
  - ✦ Prepare internal minor change substantiation
  - ✦ Identify which tests must be repeated
  - ✦ Update DDP – if needed – and provide a copy to EASA
  - ✦ Update the contents of the brackets in the approved part numbers explanation and provide information to EASA.
    - E.g. for P/N YYY-( ) YYY-02 added for grey panel version
  - ✦ Update Configuration Index

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## Minor/Major assessment

### → Identify the certification basis

- ✦ A change of the certification basis leads to a major change e.g. adding of ETSOs, revised standard (if not already assessed by authority)

### → Identify the contribution of the change to the certified function. Identify the areas which need requalification.

- ✦ If re-demonstration of the required function is necessary the change is major.
- ✦ Some evidence testing is possible
- ✦ Percentage of re-testing not substantial?
- ✦ No change to main load path?



## Minor Change Examples

### → Correction to drawings or manuals

### → Changes to colour

### → Substitution of (obsolete) simple components with ones being technical better. Compliance demonstration provided by similarity.

### → No change to any function defined in the ETSO

### → Variants of interfaces already been certified

### → Variants within the boundaries defined and demonstrated during initial certification



## Major Change Examples

### → Upgrade / change certification basis (e.g. ETSO-2C112a => ETSO-2C112b)

### → Adding of new functions (having own ETSO requirements)

### → Modification of critical load path

### → Change of processor type or software language

### → Change of component which contributes substantially to the certified performance e.g. display of C113 display system



## Extending existing approvals

### → The part number introduced by a minor change is not covered on the certificate. What can be done?

- ✦ Apply for a Minor Change to ETSO using form 34
  - Field 2.1: Tick box: *Minor Change to approved equipment* and provide the existing approval number
  - Field 4.5 Remark: Provide short description of the issue
- ✦ Provide copy of the original Certificate if not issued by EASA
- ✦ Provide a minor change description and a substantiation for being minor
- ✦ Provide a current DDP
- ✦ Administrative re-issuance of documents is charged at 1 hour @ 225,- EUR



## Involvement of Agency

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- Distribution of updated DDP to EASA
- Inform EASA about the introduction of new variants having a new part number. This includes variants already covered within the open bracket.
- Consult EASA for confirmation in any case of doubt about the classification. EASA confirms the classification or may provide further questions.



## Questions

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