

ATM/ANS Equipment Certification/ Declaration Webinar

30/04/2025

Agenda of the webinar

09:50 H – 10:00 H	PARTICIPANTS CONNECTION
10:00 H – 10:50 H	ATM/ANS Equipment certificate, the certification/attestation basis, relation with Part Number & minor change Anne Senechal, Jose Luis Garcia
10:50 H – 11:05 H	Overview of the Equipment certification process Anne Senechal
11:05 H – 11:10 H	Overview of the registration process of Equipment declaration Anne Senechal
11:10 H – 11:20 H	Break
11:20 H – 12:00 H	Introduction of CP/DDP, DDC, SoC templates Anne Senechal, Jose Luis Garcia
12:00 H – 12:15 H	Introduction of ATM/ANS Equipment attestation Workshop Manuel Rivas Vila , Anne Senechal
12:15 H – 12:30 H	Questions All

Q&A – use of slido.com

No formal Q&A session but please send any question & feedback through to help us prepare the workshop in June:

Use Slido.com

→ #ATMEQCAF

→ Passcode : webinar

Otherwise use the link

→ <https://app.sli.do/event/pDbh1nvr19DysvHz2PeWut>



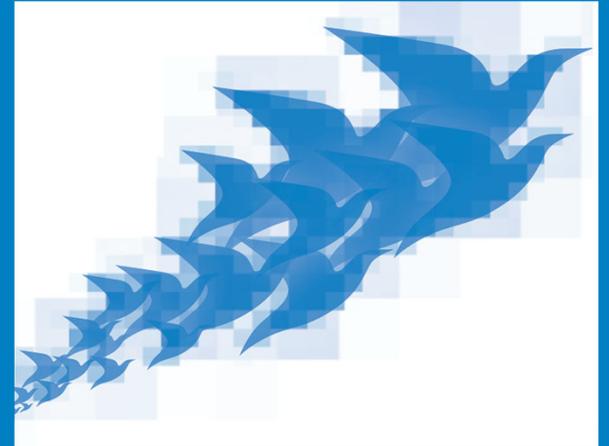
ATM/ANS Equipment certificate, certification/attestation basis, Part Number & minor change

30/04/2025

Presented by:

Anne Senechal

Jose Luis Garcia-Chico

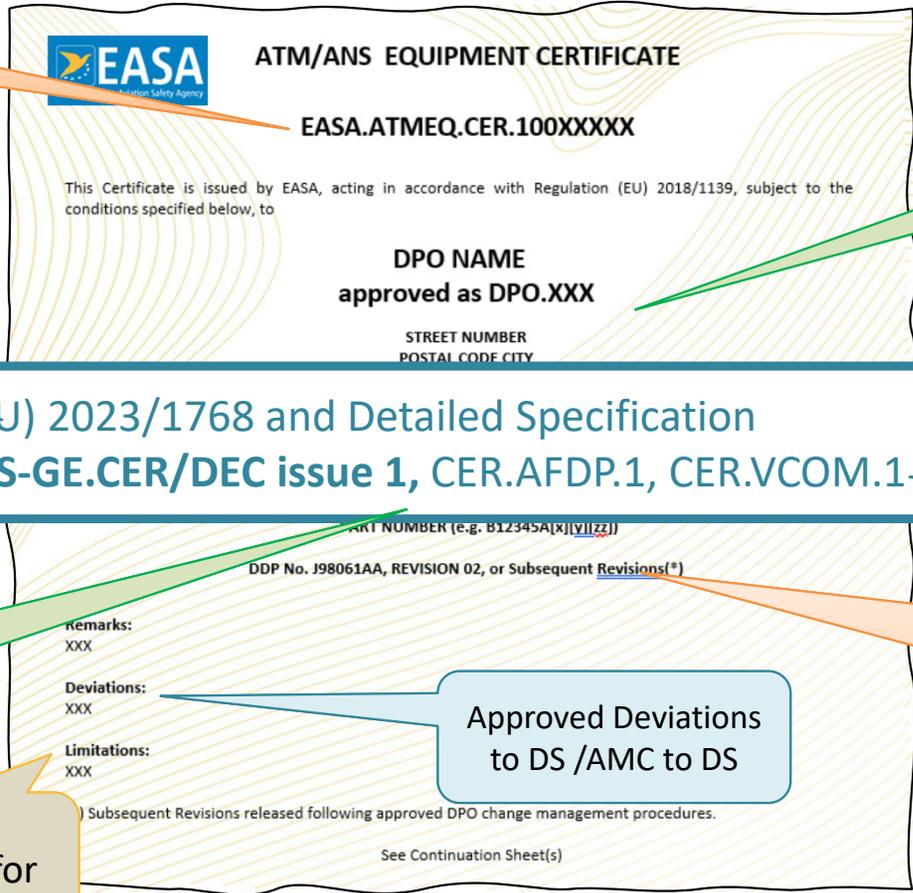


Your safety is our mission.

Scope

- EASA ATM/ANS Equipment Certificate
- Certification basis / attestation basis
 - Newly introduced taxonomy for Detailed Specifications
 - Deviations
- Part number & anticipated minor change

Starting from EASA ATM/ANS Equipment Certificate



Certificate reference nb

Approved DPO references

Certification basis

Taxonomy of DS function. NEW!

(EU) 2023/1768 and Detailed Specification
DS-GE.CER/DEC issue 1, CER.AFDP.1, CER.VCOM.1

Equipment Designation
Model name + Part Number

Approved Deviations to DS /AMC to DS

Reference of Declaration of Design Performance (DDP)*

Specific conditions for compliance

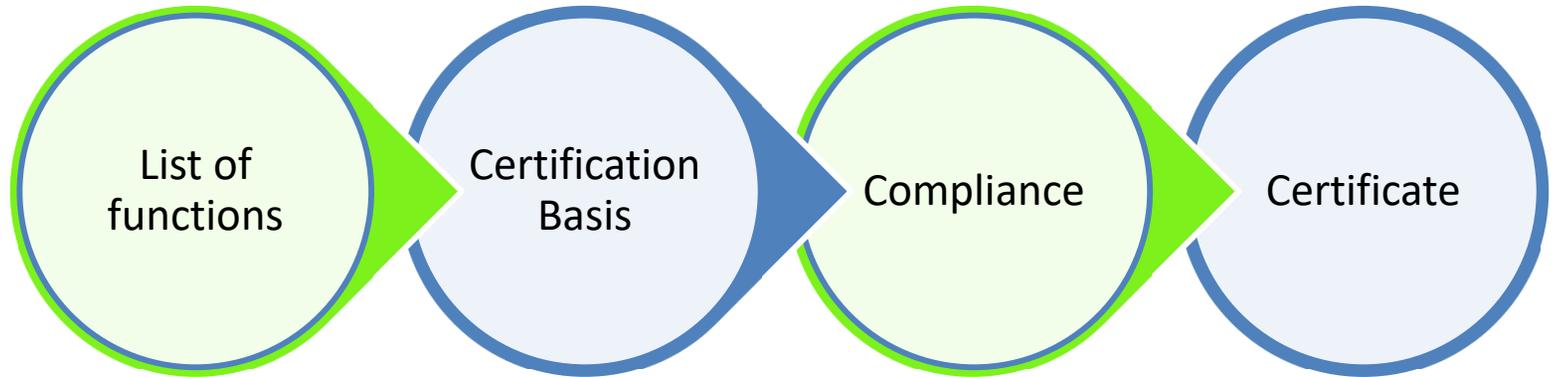


* Final DPO document attesting the compliance to the regulations and DS

From equipment definition to Certificate

Equipment

Model Name
Part Number*

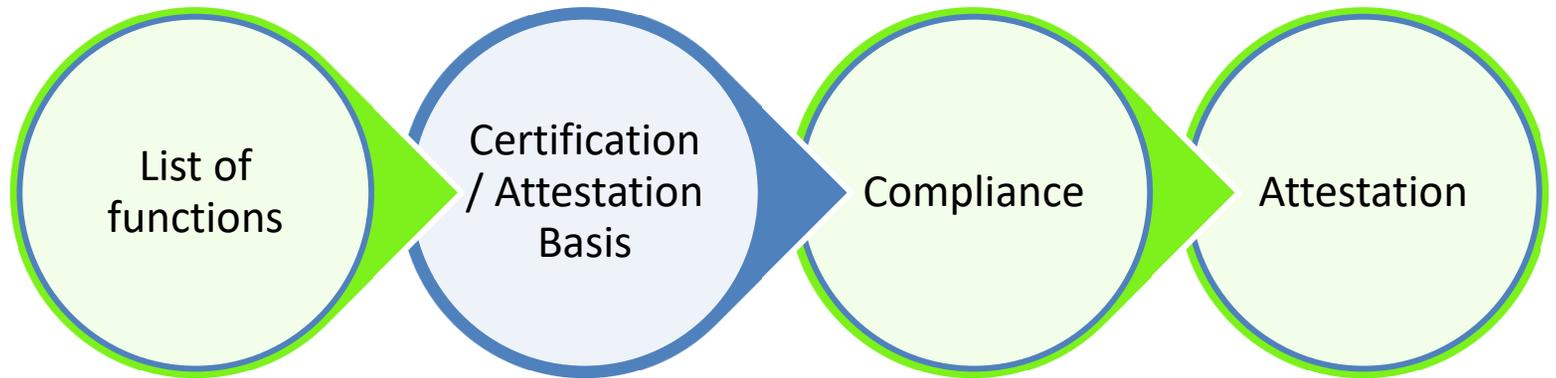


→ Per (EU)2023/1768&1769 regulations, *PN → DPO may anticipate provision for minor changes

In more generic terms > From equipment definition to **Attestation**

Equipment

Model Name
Part Number

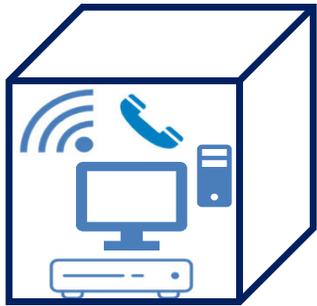


* DPO approval required for articles 4 & 5 of (EU)2023/1768

Certification basis / Attestation basis



Certification basis



→ (EU)2023/1768 Art. 4 eqt → requires EASA Certificate

→ Equipment described with a list of embedded functions

→ Certification basis =

→ **all DS sections that are applicable to the listed functions + General sections**

→ Use the revision/issue of Detailed Specifications that is applicable **at time of application!**

→ when Detailed Specifications is updated during project life time, on voluntary basis, the DPO holder may elect to apply newer revisions of the DS.



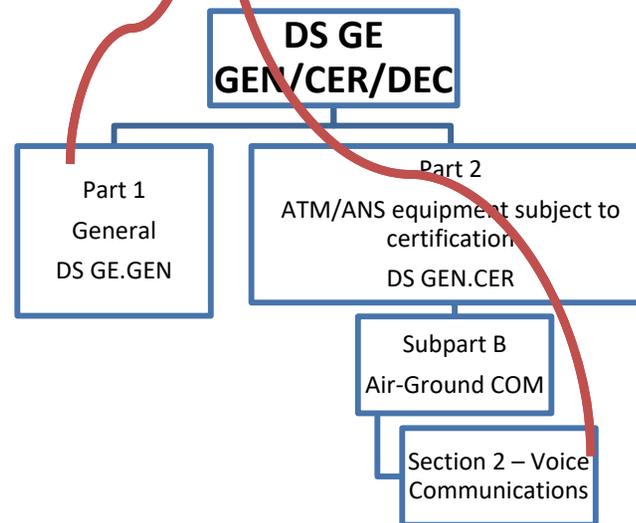
Certification basis



→ Example for Voice communications system

→ Certification basis

❖ Go to DS



Using the [taxonomy](#) recently published →

CERDEC.GEN.1 + CER.VCOM.1

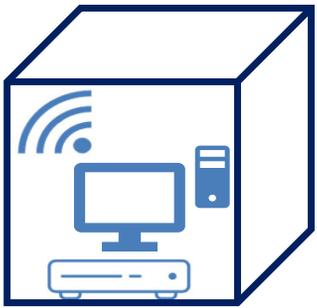
Certification basis in case of multiple functions



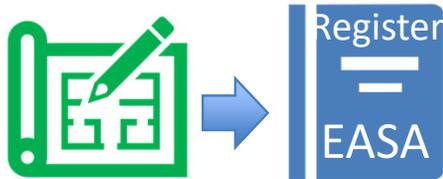
- (EU)2023/1768 Art. 4 eqt → requires EASA Certificate
- Equipment described with a list of embedded functions
- Certification basis = all DS sections that are applicable to the listed functions + General sections
- **If DEC or SoC functions inside (as well)** → need to identify them in certification (attestation) basis section of the DPO certification program and DPO final declaration document
- No need for additional Declaration / SoC : only one single attestation for the equipment identified with Model name and PN
 - EASA Certificate covers the full set of functions and will reflect the CER/DEC/SoC functions
 - EASA level of involvement will be commensurate to the type of functions



Attestation basis in DDC context



- (EU)2023/1768 Art. 5 eqt → requires an “EASA registered” Declaration of Design Compliance (DDC)
- Equipment described with a list of Embedded functions
- Attestation basis within the Declaration
= all DS sections that are applicable to the listed functions + General sections – at date of DDC submission
 - *If SoC functions inside (as well) → need to identify them in attestation basis of the Declaration of Design Compliance*
 - *EASA registration of the declaration of DEC equipment covers all the equipment functions.*
 - *No need for extra SoC by the DPO: : only one attestation for One equipment PN!*



Attestation basis in SoC context

- (EU)2023/1768 Art. 6 eqt → requires a SoC
 - Need to state the list of embedded functions
 - ensures it does NOT contain CER/DEC functions
 - Attestation basis = all DS sections that are applicable to the listed functions + General sections - at date of SoC release.
 - Attestation issued by ANSP or by 'delegated' DPOs,
 - *One attestation to cover the equipment PN by one organization*
 - *Each ANSP issues its SoC for that Model/PN.*
 - *If issued by DPO : only 1 SOC can be issued for the same Model/PN.*



Deviations to applicable Detailed Specifications – Art 4.

ATM/ANS.EQMT.CERT.015 Application for an ATM/ANS equipment certificate

- (2) a certification programme for the demonstration of compliance in accordance with point [ATM/ANS.EQMT.CERT.025](#), consisting of the following:
- (i) a detailed description of the design, including all the configurations to be certified;
 - (ii) the proposed equipment characteristics and limitations;
 - (iii) the intended use of the ATM/ANS equipment;
 - (iv) a proposal for the initial certification basis, including applicable detailed certification specifications, proposed special conditions, proposed equivalent safety findings, as well as a proposed means of compliance and **proposed deviations**, as applicable, prepared in accordance with the requirements and options set out in point [ATM/ANS.EQMT.AR.B.001](#);

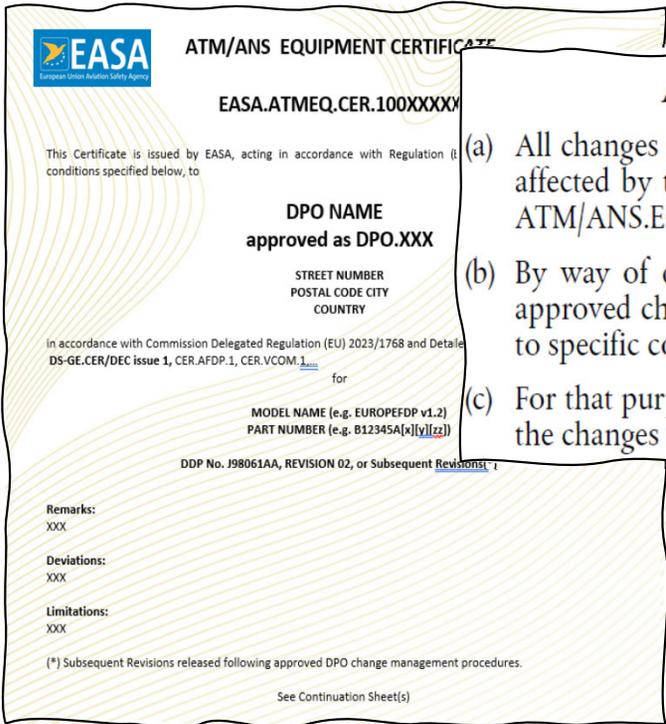
➤ *Deviations to applicable Detailed Specifications are amending the applicable Certification basis - subject to EASA approval.*

Part number, Cert./Attest. basis and design changes



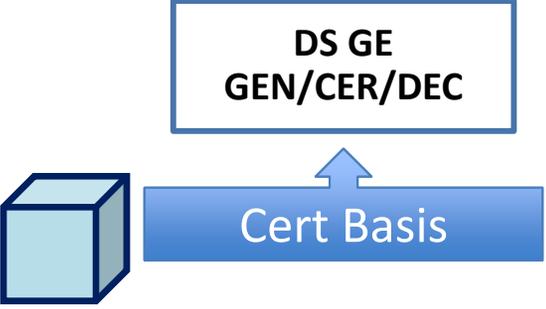
Design changes and DS cert basis in (EU)2023/1768

→ Article 4 equipment

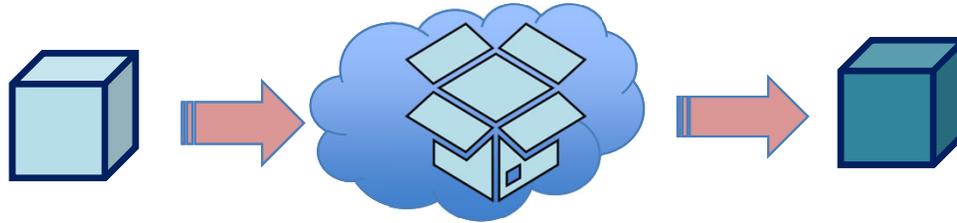


ATM/ANS.EQMT.CERT.060 Changes to the ATM/ANS equipment certification basis

- (a) All changes shall be approved by the Agency once the certificate holder demonstrates that the changes, and the areas affected by the changes, comply with the certification basis as established by the Agency in accordance with point ATM/ANS.EQMT.AR.B.001.
- (b) By way of derogation from point (a), the changes within the scope of the organisation's privileges following an approved change management procedure shall be managed by the approved design organisation and shall be limited to specific configuration(s) of the ATM/ANS equipment to which the changes relate.
- (c) For that purpose, the holder of an ATM/ANS equipment certificate shall have a system in place to identify the scope of the changes to ATM/ANS equipment as 'minor' and 'major'.

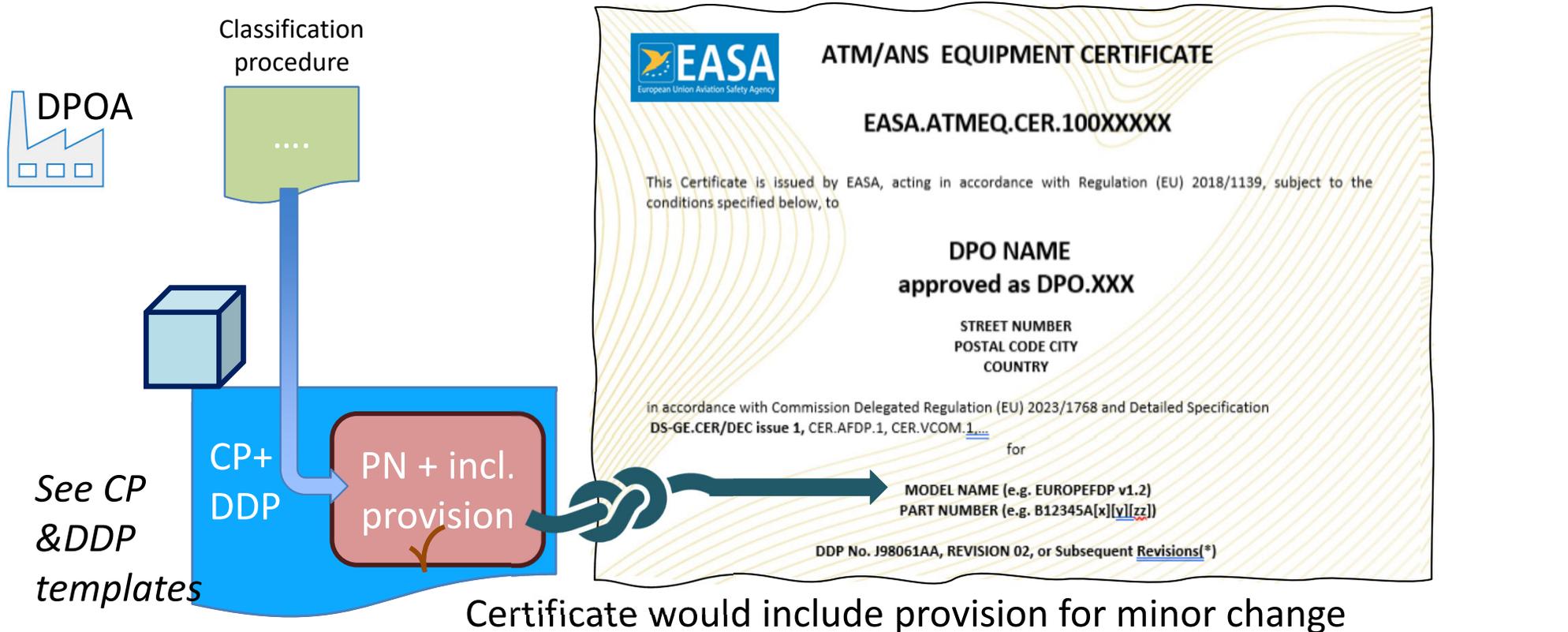


Design changes for Art. 4 equipment (CER):



- DPO has a system in place to classify minor/major in its scope of work.
- If DPO anticipates for minor changes in its part numbering scheme presented in the Certification Program and reach EASA agreement
 - **Certificate shows the provision for minor changes**
 - *The DPO has the privilege to perform the changes according to its procedure and anticipated minor changes and inform EASA a posteriori.*

Anticipating for minor changes – Art. 4 Eqmt



See CP & DDP templates

Certificate would include provision for minor change
→ EASA uses “open bracket” for digits reserved for identification of **minor** changes ! **PART NUMBER e.g. B12345A(x)(y)(zz)**

Design change & certificate

- If minor change & anticipated by the DPO at initial certification:
 - Certificate will indicate the Model name (same from initial certification) and the PN with the provision for minor change
 - Privilege of the DPO to perform minor changes to that equipment per the accepted DDP, and as identified in the certificate.
- If non anticipated minor change
 - need -a priori- EASA approval of the minor change (typically revision update of initial certificate)
- If Major change, new certification project !
 - different model name, different Part Number

Cert. basis & Design change for Art.4 Equipmt

- Minor change → Use of same cert basis than original (no upgrade)
 - Major change : need to apply for new certificate → take newest cert. basis in latest applicable DS
- If DPO wishes to change the certification basis → this is classified Major (i.e. this is considered 'significant enough to perform reinvestigation')

Design changes for Art. 5 equipment (DEC): similar concept

- Governed by ATM/ANS.EQMT.DEC.020
- Minor/major change to a registered DDC:
Major change ('significant enough to perform reinvestigation') require the assignment of a new model designation to the equipment.
- Privilege of the DPO to perform minor changes



In practice :

- DPO procedures present the minor/major classification approach,
- For given equipment, DPO explains the provision for **anticipated minor changes in the 'DDC'**
- When performing a minor change, **DDC is updated to a newer revision** to reflect the minor change in the design of such equipment.

Thank You

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List of acronyms

AMC	Acceptable Means of Compliance
ANS	Air Navigation Service
ANSP	Air Navigation Service Provider
ATM	Air Traffic Management
CER/CERT	Certification
CP	Certification programme
DDC	Declaration of Design Compliance
DDP	Declaration of Design Performance
DPO	Design or Production Organisation
DPOA	Design or Production Organisation Approval
DEC	Declaration

DS	Detailed Specifications
EASA	European Union Aviation Safety Agency
EU	European Union
EQMT	Equipment
GM	Guidance Material
PCM	Project Certification Manager
PN	Part Number
SEPIAC	Shared Electronic Platform for Initial Airworthiness Certification
SoC	Statement of Compliance
Q&A	Questions and answers