

Evolution of European Technical Standard Order Authorisation process

Webinar – 23rd June 2025



Welcome / Introduction

Objectives of the webinar

- Present the principles of the main contemplated changes in the requirements applicable for ETSO Authorisation applicants / holders
- Familiarise the stakeholders with the content of the upcoming NPA
- Collect the views of the stakeholders on the envisaged changes

Agenda

Time	Topics for Discussion	Presenter(s)
09:00	Welcome / Introduction	Mr Grégory LIEVRE Head of Department, CT.3 Ms Marcella MIANO Section Manager, CT.5.1
09:15	Rulemaking Task RMT.0727-4 / General Presentation	Mr Alexandru ENACHE Senior Regulation Officer, CT.5.1
09:25	Options for design capability demonstration (an overview of options considered for (design) capability demonstration up to the current concept)	Mr Francesco CARIDEI Section Manager, ETSO Section CT.3.3
09:50	DOA vs. ADOA (main differences of the current two systems)	Mr Alexandru ENACHE Senior Regulation Officer, CT.5.1
10:15	Q&A (Slido)	
10:40	Break	
11:00	Evolution of ADOA concept (Declared Design Organisation – main requirements)	Mr Alexandru ENACHE Senior Regulation Officer, CT.5.1 Mr Francesco CARIDEI Section Manager, ETSO Section CT.3.3
11:45	Q&A (Slido)	
12:15	Lunch break	

Agenda (continued)

Time	Topics for Discussion	Presenter(s)
13:30	Classification and approval of ETSO article design changes (clarification of change classification and approval process)	Mr Pasquale CONTE Senior PCM ETSO, CT.3.3 Mr Daniele SGROI PCM ETSO, CT.3.3
14:00	Q&A (Slido)	
14:30	EASA Level of Involvement (LOI) in ETSOA (improved means to determine the LOI when the applicant has a DOA)	Mr Pasquale CONTE Senior PCM ETSO, CT.3.3 Mr Francesco CARIDEI Section Manager, ETSO Section CT.3.3 Mr Daniele SGROI PCM ETSO, CT.3.3
15:00	Q&A (Slido)	
15:30	Break	
15:45	DOA privileges for ETSOA (minor changes and certain major changes (LOI=0))	Mr Francesco CARIDEI Section Manager, ETSO Section CT.3.3
16:15	Miscellaneous (transferability, DO-PO arrangements, transition measures, etc.)	Mr Francesco CARIDEI Section Manager, ETSO Section CT.3.3
16:45	Wrap-up	Mr Grégory LIEVRE Head of Department, CT.3
17:00	END	



Q&A sessions are planned after each main agenda topic.

Q & A – use of slido.com

#ETSOEVO25

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Disclaimer



The content of some the following slides is including principles and draft text which is currently under development for the inclusion in the EASA Notice of Proposed Amendment (NPA) – rulemaking task RMT.0727-4.

This content may change up to the moment the NPA will be published by EASA.

The audience shall take note of the draft character of this material. Therefore, this material cannot be used or referred in any ETSO Authorisation projects.

Rulemaking Task RMT.0727-4 / General Presentation

RMT.0727, Subtask 4, Background

After the adoption of Regulation (EU) 2018/1139 – known as ‘new Basic Regulation’ – a rulemaking task (RMT.0727) has been created to for the alignment of Part 21 with new Basic Regulation. The main subtasks were:

- RMT.0727-1 – for the definition of simple and proportionate rules for GA.
This subtask let to Part 21 Light
- RMT.0727-3 – certification of non-installed equipment (NIE) and review of the ETSO system

Following consultations with the industry, in 2023 EASA decided to split the two subjects in separate rulemaking subtasks:

- RMT.0727, Subtask 3 - certification of non-installed equipment (NIE); and
- **RMT.0727, Subtask 4 - ETSOA system review**

(see EPAS, vol. II, edition 2024)

RMT.0727, Subtask 4 - Objectives

Improve system's efficiency:

- on ETSOA process (privileges, Lol, performance of organisation)
- at aircraft level (by leveraging as much as possible ETSO credits)

Introduce scalability/proportionality

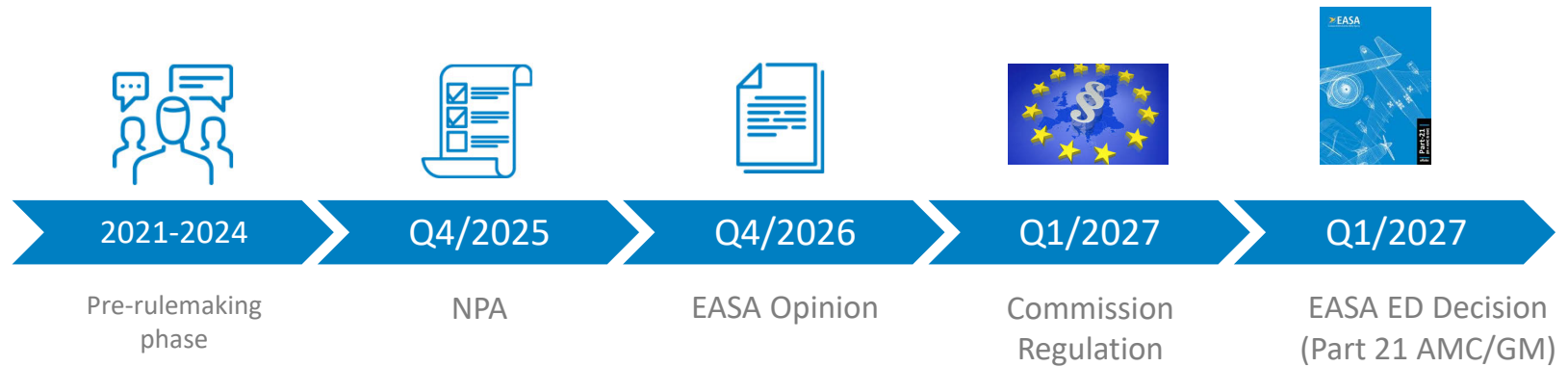
Fix long-lasting pain points

Keep/improve international transferability of articles and 'level-playing field'

Preserve or improve safety

RMT.0727, Subtask 4

Timeline



Options for design capability demonstration

**Overview of options considered for (design)
capability demonstration up to the current
concept**

Initial proportionality concept

ETSOA remain optional

- Complex
- Above major criticality
- Increased inst. credit
- ETSO standard or other standard exists

- Up to major criticality
- Inst. credit
- ETSO standard or other standard exists

- Minor criticality only
- May be required by ops rule but no approval required
- ETSO standard or other standard exists

Increased oversight proportionate to increased risk

2018/1139

Equipment Certificate

Organisational approval

Equipment examples

Adv. ETSO

ETSOA

DOA + POA

IMA, FMS, Seat

ETSO

ETSOA

ADOA + POA***

Display, ULD*

Declarations

Self certified**

Declaration

PLB*

*EASA may require an article to be approved iaw another process based on complexity, non-ETSO functions, ...

** Could be in form of a certificate issued by the organisation to comply with New BR requirement

*** Check whether full POA or declared POA required

Revised ETSO Proportionality Concept

~~Declaration~~

~~Article:~~

~~ETSO Declaration~~

~~Capability:~~

~~Design: Declared DO~~

~~Production: Declared PC~~

'Standard' ETSO

Article:

ETSO Authorisation

Capability:

Design: **Declared Design Procedures**

Production: POA

'Advanced' ETSO

Article:

ETSO Authorisation

Capability:

Design: **DOA**

Production: POA

Concept retained for implementation

No more categories ('advanced' / 'standard')

No more mandatory DOA

Privileges for DOA (all minor changes, 'streamlined' major changes)

Benefits

- Simpler (no more categories)
- Less prescriptive ('incentive' for DOA)
- Preserves potential for efficiency gains (EASA and Industry)
- No risk of blockage by bilateral partners (streamlined major change approvals still issued by EASA)
- Does not affect mutual recognition
- Preserves level-playing field (very aligned with FAA approach)

DOA vs. ADOA

Main differences of the current two systems

Demonstration of capability for design – current framework

Capability demonstration requirements unchanged since initial issue of EASA Part 21 (Regulation (EC) No 1702/2003):

- DOA for APU
- ‘for all other articles, by using procedures setting out the specific design practices, resources and sequence of activities [...]

AMC 21.A.602B(b)(2) -> Manual of procedures

Due to similarity with capability demonstration for product certification in 21.A.14(b), these procedures have been called ‘alternative procedures’.

(the acronyms used: AP, AP to DOA, ADOA)

Demonstration of capability for design – current framework

What should be the content / coverage of these procedures? (see AMC 21.A.602B(b)(2))

- management of ETSO authorisation process
- management of design changes
 - classification and approval
 - should also cover repairs and production non-conformities
- obligations of ETSOA holder
 - including, issuance of information and instructions (manuals)
- control of design subcontractors

(see also, EASA Template for ETSO ADOA Manual)

Process

- Application for Alternative Procedure to Design Organisation Approval (DOA) – Form 81
- desk review by EASA (iteration(s) until satisfactory) + in parallel first project with PCM ETSO
- EASA finding of compliance

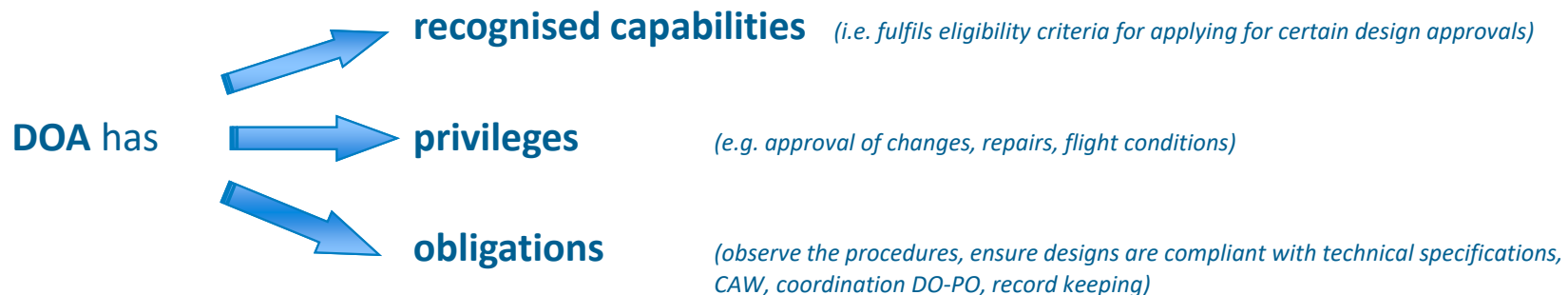
Design Organisation Approval (DOA)

We are proposing opening the DOA path for ETSOA applicants / holders on a voluntary basis.

A DOA is more than a set of procedure (like in the case of ADOA)

The design organisation shall establish, implement and maintain a design management system

- sufficient staff (number and competence);
- clearly allocated responsibilities;
- adequate facilities;
- well defined policies, processes and procedures.



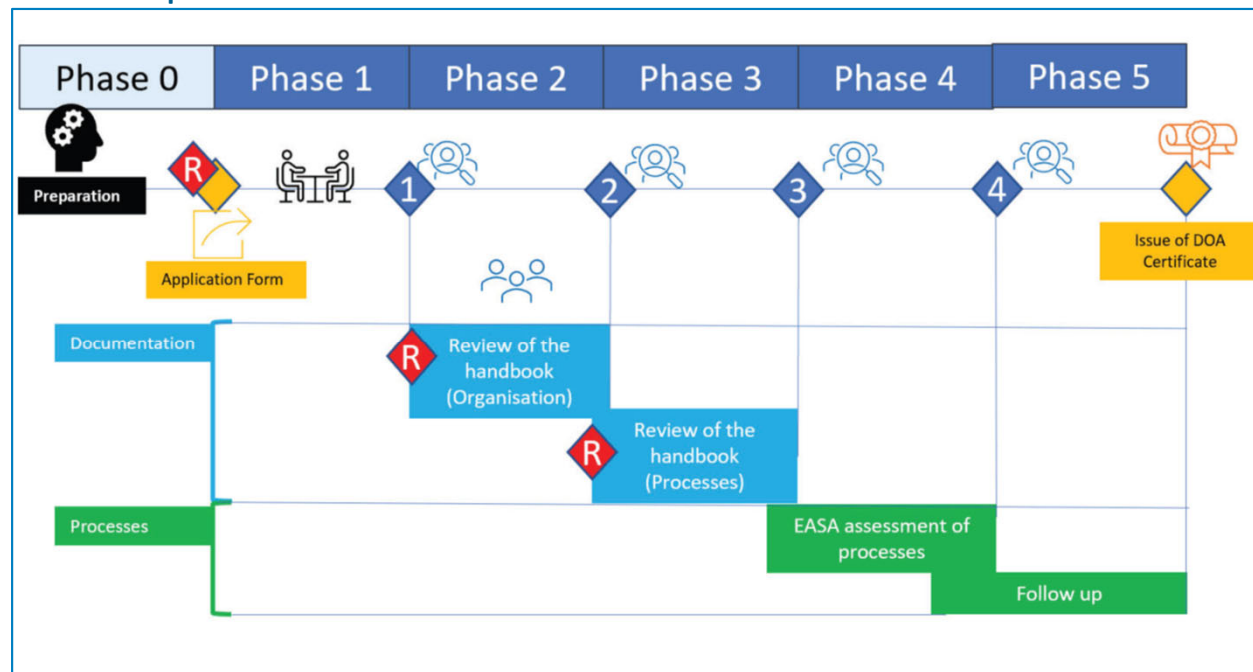
Design Organisation Approval (DOA)

What are the main 'features' of the Design Management System:

- airworthiness function
(managing the certification process, managing the continued airworthiness, interfacing with EASA)
- independent verification function of the demonstration of compliance (a.k.a. CVE function)
(verification by a person that did not create the compliance data)
- independent monitoring function to verify compliance of the organisation with the relevant requirements of Part 21 as well as the compliance with and adequacy of the design management system
(‘simplifying’: internal audits)
- safety management system
(safety policy & objectives, safety risk management, safety assurance, safety promotion)
- key management positions
(HDO, CoAF, CoIMF, SM)
- staff competence

Design Organisation Approval (DOA)

DOA initial certification process



Note For more details please refer to the 'DOA Initial Investigation Information Package' published on EASA DOA webpage ([here](#)), in the section 'Downloads'.

Design Organisation Approval (DOA)

DOA oversight principles

- verification that the DOA continue to comply with Part 21
- risk based approach (scope and volume of work, privileges, performance)
- includes: assessments, audits (process and product), inspections, sampling
- oversight cycle / programme (normally, 2-year cycle)
- recommendation report on the continuation of the approval
- findings and corrective actions

How big is the 'step' towards a DOA?



Some 'pioneers' exist already!



What do I need?

- handbook / procedures
 - key management positions
 - airworthiness function
 - CVE function
 - independent monitoring
 - SMS
 - staff competence
- ? (ADOA Manual already existent / gap analysis)
 - ? (already in place / need for additional nomination(s))
 - ? (already nominated staff responsible for managing the ETSOA process and interfacing with EASA)
 - ? do you have someone verifying the compliance doc.?
(most probably, YES)
 - are you performing internal audits?
(EN/AS 9100, supplier req., POA)
 - ? (it is already implemented in your POA / extension needed)
 - ? probably you are already managing the staff competence
(need for additional training)



Evolution of ADOA concept

Declared Design Organisation – main requirements

From ADOA to Declared Design Capability (Declared Design Organisation)

ADOA

- set of procedures established by the applicant / holder
- reviewed by EASA
- EASA Finding of Compliance

Declared Design Organisation

- set of procedures established by the applicant / holder
- self-declaration by the applicant/holder
- registration of the declaration by EASA
- oversight by EASA during ETSOA projects (and, when required, through specific activities)

Main advantages

No prior review by EASA (reduced burden, in particular, for new ETSOA applicants)

Flexibility for the Declarant (ETSOA holder) to manage its own procedural system and keep it updated / fit for purpose.

Proposed implementation in Part 21 of the requirements for Declared Design Organisation

New Subpart N (21.A.5xx)

- 21.A.501 Scope
- 21.A.503 Eligibility
- 21.A.505 Declaration of Design Capability
- 21.A.507 Management system for design
- 21.A.509 Resources of the declared design organisation
- 21.A.511 Scope of work
- 21.A.513 Findings and observations
- 21.A.515 Notification of changes and cessation of activities

Proposed implementation in Part 21 of the requirements for Declared Design Organisation

New Subpart N (21.A.5xx)



administrative req.



technical req.

- 21.A.501 Scope
- 21.A.503 Eligibility
- 21.A.505 Declaration of Design Capability
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- 21.A.513 Findings and observations
- 21.A.515 Notification of changes and cessation of activities

New Subpart N (21.A.5xx) – administrative requirements

- 21.A.501 **Scope**
Establish the procedural requirements for making a declaration of design capability.
Is also prescribing the obligations of the declarant.

- 21.A.503 **Eligibility**
Any natural or legal person required by point 21.A.602B(b)(2) to demonstrate their design capability

Note The scope and eligibility for the declaration of design capability may be extended in the future to cover other design approvals in Part 21 (replacing the 'Alternative Procedures').

New Subpart N (21.A.5xx) – administrative requirements

➤ 21.A.505 Declaration of Design Capability

The form and manner is established by EASA (there will be an EASA Form xyz for the declaration)

Contents of the Declaration

- ✓ name and address of the organisation
- ✓ the names and contact details of the head of the design organisation;
- ✓ the intended scope of work;
- ✓ a statement confirming that the organisation:
 - (i) has a management system for design in accordance with point 21.A.507; and
 - (ii) will maintain the management system for design in compliance with this Subpart;
- ✓ a statement confirming that the organisation will adhere to the processes and procedures
- ✓ a statement that the organisation agrees to undertake the obligations of a declared design organisation in accordance with this Subpart.

New Subpart N (21.A.5xx) – administrative requirements

- 21.A.511 **Scope of work**
Type of design work (initial certification, changes, repairs)
Categories of ETSO articles (by reference to the applicable ETSO)
Functions and obligations (all or (for certain articles) only continued airworthiness)

- 21.A.513 **Findings and observations**
After receiving a finding notification
 - establish corrective action plan
 - demonstrate to EASA the implementation of the corrective actionsCorrective actions shall be performed in the established period
Observations

- 21.A.515 **Notification of changes and cessation of activities**
Changes affecting Declaration contents
Changes significant for the demonstration of compliance for the article(s) designed
Termination of some or all activities covered by declaration

New Subpart N (21.A.5xx) – technical requirements

➤ 21.A.507 Management system for design

Proportionate with the nature and complexity of the activity.

Established under the accountability of a single manager (Head of Design Organisation).

Ensure the control and supervision of the design, and of design changes of articles and their compliance with the technical conditions of the applicable ETSO.

Handbook that describes, directly or by cross reference, the organisation, its relevant policies, processes and procedures. The Handbook shall be maintained up to date.

(planned AMC/GM for the content of the Handbook and example/template)

➤ 21.A.509 Resources of the declared design organization

Nomination of a Head of Design Organisation

Sufficient staff (number and experience) and adequate facilities

Objective based requirements

New Section B / Subpart N (21.B.46x) – Procedural requirements for competent authorities (EASA)

➤ 21.B.461 **Registration of a declaration of design capability**

Declarant eligibility check

Declaration completeness check

When the checks are successful, EASA confirms the registration of the declaration and publishes the name of the declarant and the scope of work in the List of registered Part 21 Declared Design Organisations.

➤ 21.B.463 **Oversight activities**

The oversight activities will be triggered by the Declarant performance during the ETSOA projects.

➤ 21.B.465 **Findings and corrective actions; observations**

Findings level 1 and level 2 (with different urgency for corrective actions implementation: 21 working days or 3 months, respectively)

Observations – improvement suggestions or issues which may later develop into findings

➤ 21.B.467 **Changes to the declaration**

Check and register the updated declaration.

If relevant, update the published list.

Declared Design Organisation – final remarks

- The concept of ‘Declaration of Capability’ is not new
- It has been introduced through Regulation (EU) 2018/1139 (Basic Regulation)
 - defined in Art. 3(10)
 - the basis for inclusion in Part 21 (for design organisation) provided through Art. 19(1)(g)
- It was already introduced in the Initial Airworthiness domain, in Part 21 Light (through amending Regulation (EU) 2022/1358)
- However, the requirements for Declared Design Organisation in Part 21 Light (Subpart J) and the contemplated requirements for Declared Design Organisation in Part 21 (Subpart N) are not the same:
 - similar in terms of ‘administrative’ requirements;
 - but, different in terms of ‘technical’ requirements

Classification and approval of ETSO article design changes

Clarification of change classification and approval process

What we have and what will get...

ETSO Application		Today	Tomorrow	
Organization Requirements		ADOA	Declared DO	Approved DOA
Production Requirements ¹		POA	POA	POA
EASA Lol		21.B.100(b)	21.B.100(b) ²	21.B.100(b) ²
“Major” {	Major	EASA ³	EASA ²	EASA ²
	Privilege	N/A	N/A	EASA ⁵
“Minor” {	Non-Anticipated	EASA	EASA	Self ⁶
	Anticipated	Self ⁴	Self ⁴	Self ⁶
	Administrative	EASA ⁵	EASA ⁵	EASA ⁵

1) POA may be exempted for SW Only NIE ETSOs (RMT.727-3)

2) EASA LOI as per AMC2 21.B.100(b) (to be moved in Section B- Subpart O and reviewed)

3) Current 21.A.611 requires application for a new Authorization for Major Changes

4) Self approval of pre-agreed list of specific Anticipated minor changes in APDOA/DDO Manual

5) EASA Lol = 0, involvement limited to administrative re-issuance of revised ETSOA Certificate

6) Self approval under new DOA privilege for minor change to ETSOA

Major Changes

Application for Major Changes will be available to all the ETSO Applicants (DDO, DOA).

Under the current requirements, a major change has to be treated as a new ETSOA authorisation.



It is proposed to no longer apply for an initial ETSOA for major changes.
A process for approval of major changes will be provided within revised 21.A.611.



For certain major changes, it will be possible to use for the compliance demonstration the ETSO referred in the ETSOA.

An Applicant can always elect to apply for Initial Investigation (latest ETSO standard revision applies).

EASA will be involved in a technical investigation according to the Applicable LoI determined per the applicable criteria of 21.B.100(a/b) [AMC will be revised for DDO and DOA].

Major Changes – with impact on CB

The following criteria are valid to determine if an application needs an updated certification basis (i.e. applicable ETSO at the revision level at the time of application):

- Have the assumptions used for an existing Certification been invalidated?
- Is the Change introducing a New ETSO Revision [e.g. from C127c to 127d]?
- Is the Change introducing a new ETSO in addition to the existing one?
- Is the Change introducing a New ETSO Deviation ?
- Does proposed change to design is so extensive that a substantially complete investigation of compliance with the applicable certification basis is required (> 80%) ?



If any of the questions is answered “Yes” => the major change has to comply with the latest ETSO revision.

Major Changes – without impacts on CB

The following criteria are valid to determine if an application should be accepted without changing the Certification Basis:

- Is there a change to the principle of intended design ?
- Is the change necessitate new guidance materials means of compliance to Certification basis?
- Is the Change a corrective action (to be) mandated of by an AD?
- Is the change introducing a significant amount of complexity / novelty in the compliance demonstration
- Is there a significant impact on performance and/or environmental qualification
- It's the change affecting Form, Fit and Functions (including Non-ETSO ones)?
- Is the POA reference changed and a new DO-PO is required?
- Does proposed change to design is so extensive that a significant investigation of compliance with the applicable certification basis is required (between 50% and 80%) ?



If ALL the questions in the **previous slide** are answered “NO”, AND

If any of the questions above is answered “YES” => the major change has to comply with the ETSO revision referred in the original ETSOA.

Minor Changes – Non-Anticipated

Application for Non-Anticipated minor changes is available to **DDO** ETSO Applicants, as **DOAs** **may have the privilege** of classifying and self-approving all the Minor Changes.

EASA will be involved in the technical investigation according to the Applicable LoI as per applicable criteria of 21.B.100(b) [AMC will be revised for DDO].

The following criteria are valid to determine if an application shall be considered a Minor Change introduced to an existing design:

- None of the major criteria met
- Not an agreed Anticipated Minor Changes



Minor Changes – Anticipated

Anticipated minor changes is a subset of Minor Changes that **DDOs** can agree with EASA and include in their Scope of Work and self approve their introduction into an ETSO Authorized design.

Pre-Agreed Anticipated Minor Changes can be listed/attached in the DDO Manuals.



Each Anticipated Minor Change shall be detailed described, including the MoC to be used for compliance demonstration.

Anticipated Minor Changes introduced to an ETSOA design shall be reported to the Agency on a regularly basis.

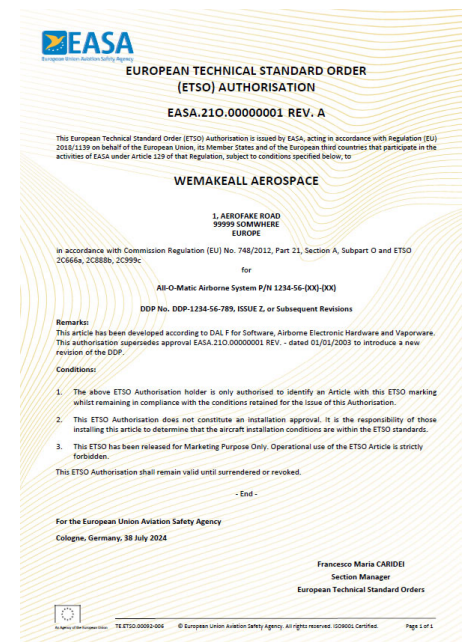
Administrative Changes

Administrative Changes to ETSO Authorisations are those related to the need of updating the references on the ETSOA Certificates without affecting the technical compliance demonstration.

Common examples of Administrative Changes are:

- Need to reference a new company name on the certificate
- Need to reference a new legal address of the ETSOA Holder

EASA will always re-issue the ETSO Authorisation.



Qualitative vs. Quantitative



Substantially complete investigation

Significant investigation

Affecting the airworthiness



Tests



Requirements

Documents

Lines of code

No appreciable Effects



EASA Level of Involvement (LOI) in ETSOA

Current methodology and future insights

Summary

- The Level of Involvement (LoI) Regulatory references
- Regulation and related AMCs
- Brief AMCs outline and main concepts
- AMCs comparison (Products vs ETSO projects) and main differences
- Outlook into LoI possibilities for DDO and ETSO DOA
 - AMCs still in development phase
 - Potential for simplification

Introduction – Regulatory Framework

- The Level of Involvement (LoI) concept was introduced by the Commission Delegated Regulation (EU) 2019/897 (12 March 2019).
- This amendment modified Annex I (Part-21) of Regulation (EU) 748/2012.
 - Point 21.B.100 Level of involvement
 - *(a) The Agency shall determine its involvement in the verification of the compliance demonstration activities and data related to the application for a type-certificate, restricted type-certificate, major change approval, supplemental type certificate, major repair design approval or ETSO authorisation for APUs.*

Introduction – Regulatory Framework

- *It shall do so on the basis of an assessment of meaningful groups of compliance demonstration activities and data of the certification programme. That assessment shall address:*
- the likelihood of an unidentified non-compliance with the type-certification basis, operational suitability data certification basis or environmental protection requirements; and*
 - the potential impact of that non-compliance on product, UAS and CMU safety or environmental protection,*
- and consider at least the following elements:*
- 1. **novel or unusual features** of the certification project, including operational, organisational and knowledge management aspects;*
 - 2. **complexity** of the design and/or demonstration of compliance;*
 - 3. **criticality** of the design or technology and the related safety and environmental risks, including those identified on similar designs; and*
 - 4. **performance and experience** of the design organisation of the applicant in the domain concerned.*

Introduction – Regulatory Framework

- (b) For the approval of a minor repair design, minor change or **ETSO authorisation other than for APU**, the Agency shall determine its involvement at the level of the entire certification project, taking into account any **novel or unusual features**, **complexity** of the design and/or demonstration of compliance, **criticality** of the design or technology, as well as the **performance and experience** of the applicant's design organization
- (c) The Agency shall notify its level of involvement to the applicant and it shall update its level of involvement when this is warranted by information which has an appreciable impact on the risk previously assessed pursuant to point (a) or (b). The Agency shall notify the applicant about the change in the level of involvement.

AMC 21.B.100(a): Lol for TC, major change to a TC, STC, major repair and, ETSOA for APU

- 1. Definitions
- [...]
- **Compliance demonstration item (CDI)**: a meaningful group of compliance demonstration activities and data of the certification programme, which can be considered in isolation for the purpose of performing a risk assessment.
- 2. Background
- [...]
- (a) propose EASA's Lol for each CDI
- (b) how EASA will determine its Lol
- 3. Principles and generic criteria for the Lol determination
- EASA determines its Lol based on the applicant's proposal in view of the risk (the combination of the likelihood of an unidentified non-compliance and its potential impact)
- — Step 1: identification of the likelihood of an unidentified non-compliance,
- — Step 2: identification of the risk class, and
- — Step 3: determination of EASA's Lol.
- [...]

Note: additional criteria are contained as an attachment to the EASA Certification Memorandum (CM) CM-21.A/21.B-001, available at: <https://www.easa.europa.eu/documentlibrary/product-certification-consultations/cm-21a21b-001>

AMC 21.B.100(a): Lol for TC, a major change to a TC, a STC, a major repair and, ETSOA for APU

- 3.1. Lol determination at CDI level
- [...]
- 3.2. Method for determining the likelihood of an unidentified non-compliance
 - 3.2.1. Principle
 - The likelihood of an unidentified non-compliance is assessed on the basis of the following criteria:
 - — novelty,
 - — complexity, and
 - — the performance of the design organisation.
 - 3.2.2. Novelty
 - 3.2.3. Complexity
 - 3.2.4. Performance of the design organisation

AMC 21.B.100(a): Lol for TC, a major change to a TC, a STC, a major repair and, ETSOA for APU

→ 3.2.5. Likelihood of an unidentified non-compliance

Step 1 — Likelihood of an unidentified non-compliance			
CDI \ Performance level of the DOAH	No novel aspects, no complex aspects	No novel aspects, but complex ones; Novel aspects, but no complex ones	Novel and complex aspects
High	Very low	Low	Medium
Medium	Low	Medium	High
Low or unknown	Medium	High	High

AMC 21.B.100(a): Lol for TC, a major change to a TC, a STC, a major repair and, ETSOA for APU

→ 3.3. Criticality

The second step that is necessary to determine the risk class is the assessment of the potential impact of a non-compliance on part of the certification basis regarding the airworthiness or the environmental protection of the product.

→ 3.4. Method for the determination of risk classes

Step 2 — Risk classes				
Likelihood (see Section 3.2.5) Criticality (see Section 3.3)	Very low	Low	Medium	High
Non-critical	Class 1	Class 1	Class 2	Class 3
critical	Class 1	Class 2	Class 3	Class 4

AMC 21.B.100(a): Lol for TC, a major change to a TC, a STC, a major repair and, ETSOA for APU

→ 3.5. Determination of EASA's Lol

- Depending on the risk classes determined in Section 3.4 above, EASA's Lol in:
- (a) compliance demonstration verification data; and
- (b) compliance demonstration activities (witnessing of tests, audits, etc.), may be as follows:
 - — **risk Class 1**: there is no EASA involvement in verifying the compliance data/activities performed by the applicant to demonstrate compliance at the CDI level;
 - — **risk Class 2**: EASA's Lol is typically limited to the review of a small portion of the compliance data; there is either no participation in the compliance activities, or EASA participates in a small number of compliance activities (witnessing of tests, audits, etc.);
 - — **risk Class 3**: in addition to the Lol defined for Class 2, EASA's Lol typically comprises the review of a large amount of compliance data, as well as the participation in some compliance activities (witnessing of tests, audits, etc.); and
 - — **risk Class 4**: in addition to the Lol defined for Class 3, EASA's Lol typically comprises the review of a large amount of compliance data, the detailed interpretation of test results, and the participation in a large number of compliance activities (witnessing of tests, audits, etc.).

What is Level of Involvement for DOA/Products?

- LOI is a risk-based framework to define EASA's involvement in verifying compliance.
- Applicants must:
 - Segment their certification program into compliance demonstration items (CDIs).
 - Assess the likelihood and impact of unidentified non-compliances.
 - Propose a level of involvement for each CDI.
- Agency Role and Final Determination
 - The applicant's risk assessment guides EASA's review depth.
 - The Agency ultimately determines the final LOI for each CDI.
- This approach optimizes EASA's reviews/involvement based on potential risk.

AMC No 2 to 21.B.100(b) Level of involvement (LoI) in ETSOA projects

→ 1. Principles

- the applicant's level of **experience** in the ETSO process and scope of work;
- the applicant's level of **performance** in the ETSO scope of work;
- the use of **novelties** in the technology/design or in the means of compliance; and
- the **complexity** of the ETSO article.

AMC No 2 to 21.B.100(b) Level of involvement (LoI) in ETSOA projects

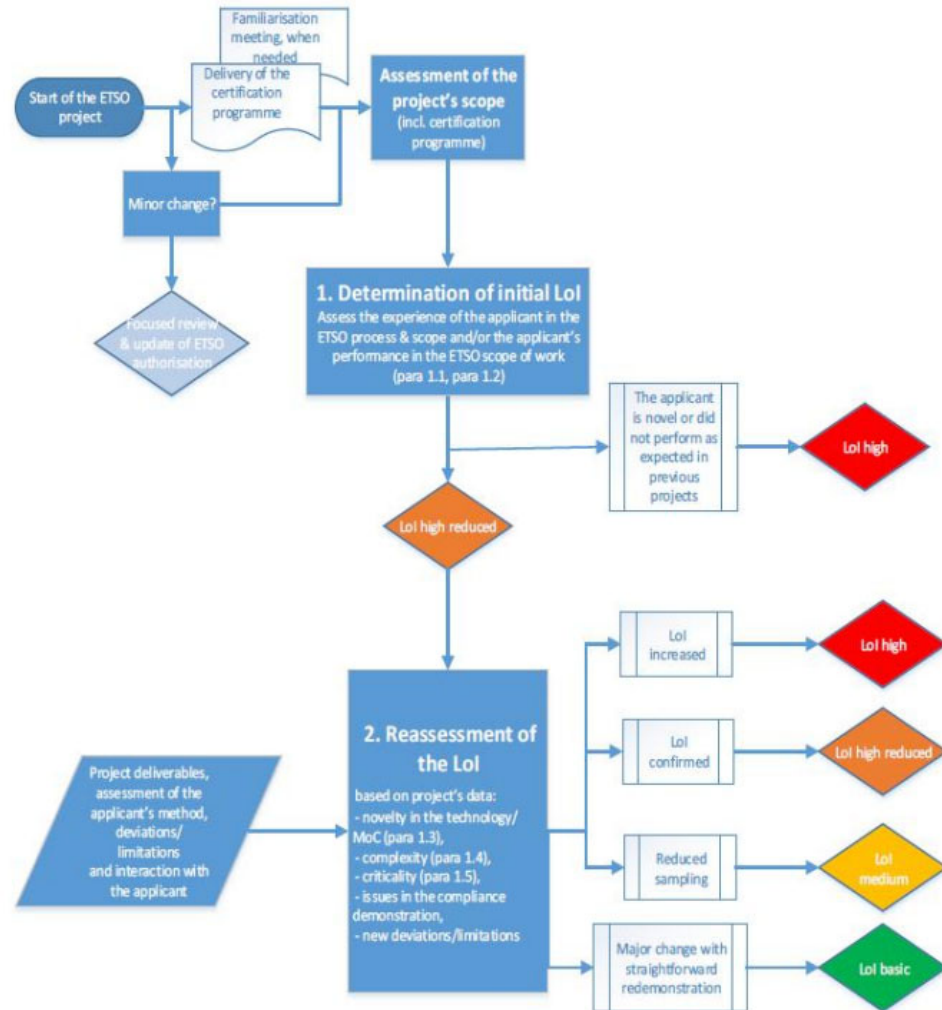
→ 2.1. Definition of the LoI classes EASA's LoI for an ETSO certification project is classified as one of the following:

- class high,
- class high reduced,
- class medium, or
- class basic.

Class 'high reduced' is, by default, EASA's initial LoI in an ETSO project.

AMC No 2 to 21.B.100(b) Level of involvement (LoI) in ETSOA projects

→ Two step process



AMC No 2 to 21.B.100(b) Level of involvement (LoI) in ETSOA projects

→ The result of this reassessment may vary from high to medium/Basic according to the following table:

Assessment results	LoI adaptation
The ETSO article is novel and complex or a significant issue is detected during the compliance demonstration.	LoI is increased to high.
The ETSO article is novel or complex or a new deviation is requested ⁽¹⁾ .	LoI is confirmed as high reduced.
The ETSO article is non-novel and non-complex, no issue is detected during the compliance demonstration or method, and no novel deviation or new limitation is requested.	LoI is decreased to medium.
There is a major change with straightforward redemonstration of the ETSO compliance ⁽²⁾ .	LoI is reduced to basic.

Comparison

→ For Products

- Approved design organizations
- Lol is proposed -> Agency to agree
- Initial agreed Lol can be in a low risk category
- Retained documents

→ For ETSO other than APU

- AP to DOA is not an approved design organization
- Agency determines the Lol based on the outlined AMC no2
- Default Lol is High/High Reduced
- All compliance documents are submitted

Declared Design Organization (DDO) Lol for ETSOA

- Principles would be in line with current AMC no.2, driven by:
 - No regular oversight
 - Procedures/Performances are assessed only at project level
 - No functions as per 21.J (Airworthiness, IMF, CVE etc.)
- Possible variations
 - Reduction of Risk Class to three (high, medium, low) or align risk categories with AMC (a) Product level Lol for consistency
 - Entry point at any Risk Class w/o re-assessment since the beginning, with possibility to increase at any instance during the project conduction
 - Submission of the whole data package will remain, with possibility of clear EASA document retention

Design Organization (DOA) Lol for ETSOA

- Principles would be in line with current AMC (a)
 - Methodology is consolidated
 - For organizations with ToA not limited to ETSOA a unique methodology applies
 - DOA Performances are monitored through established processes
 - Shared with the DOA
- Possible variation
 - There will be a need to tailor certain portions of the wording of the AMC (a) to include the ETSOA case.
 - The plan is to move the ETSO Lol AMC(s) from Section B/Subpart B to Section B/Subpart O or in a dedicated AMC based on adapted content

Design Organization (DOA) Lol for ETSOA

→ Possible variation (cont.)

→ Compliance Demonstration Items (CDI) would be a new concept applied to ETSO. The CDI will not be formally requested in the rule as part of the Certification Programme.

The revised AMC may introduce this concept and the applicant should decide if for a project to define several CDIs or it will be only one (i.e. full project).

→ The **advantage** for a DOA to define several CDI will be the ability to propose later different LOI per each CDI.

→ Guidance material in the form of GM or CM similarly to EASA CM No.: CM-21.A/21.B-001 Issue 03 for Lol determination

DOA privileges for ETSOA

DOA privileges for ETSOA

The DOA privileges are specified in 21.A.263(c).

The DOA privileges are not granted by default together with the DOA. The DOA holder needs to demonstrate its capability to exercise the respective privileges (organisation, responsibilities, competence, procedure).

For design organisation having the scope of ETSOA, two new privileges are contemplated:

(c) The holder of a design organisation approval shall be entitled, within the scope of its terms of approval issued under point 21.A.251 and under the relevant procedures of the design management system:

[...]

(10) for ETSO Authorisation for which they are the holder, to classify changes to an ETSO Authorisation and approve minor changes;

(11) for ETSO Authorisation for which they are the holder, to obtain the approval of certain major changes to an ETSO Authorisation without further verifications by the Agency when submitting the declaration required under point 21.A.608.

Major Changes – Privilege

Certain Major Changes to existing ETSO design will be eligible for **DOA privilege**.

'to obtain the approval' - EASA LoI = 0. (Why?)

The following criteria are valid to determine if a Major Change can be eligible for the privilege:

- Certification assumptions not invalidated
- No new ETSO Standard/Revision, no New Deviation
- Not an AD corrective action
- No novelties in compliance demonstration and no new means of compliance
- Compliance investigation <80%
- Possible to have change in design principles
- Possible to have significant impact on performance and/or environmental qualification



Miscellaneous

(transferability, DO-PO arrangements, transition measures)

Miscellaneous

Transferability (21.A.621)

It is intended to relax the current transferability requirements (currently, allowed only in case of change of ownership) allowing the transfer to natural or legal person that is able to undertake the obligations of the ETSOA Holder (including the demonstration of capabilities for design and production).

An additional condition will request to manage such transfer as a major change to ETSO Authorisation.

DO-PO arrangements (21.A.602B(a))

Currently, the production capability is demonstrated by holding a POA. In case the ETSOA applicant / holder wants to use a different organisation for producing the article, point 21.A.2 has to be used.

To simplify the production capability demonstration path, it will be proposed to accept directly DO-PO arrangements with an organisation that holds a POA.

Change of POA will be considered a partial transfer of the approval and the provision of 21.A.621 will apply.

Transition measures

As there is no intention to mandate the DOA, it is considered that no extensive transition period will be necessary.

The transition from current ADOA to Declared Design Organisation should be straight forward. However, to allow the current ETSOA Holders to review their procedures and follow the administrative steps for the registration of their Declaration of Design Capability, a transition period of up to 6 months will be considered.



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