

APPROVAL CERTIFICATE

EASA.21J.499

Pursuant to Regulations (EU) 2018/1139 and (EU) 748/2012 and subject to the conditions specified below, the Agency hereby certifies

DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

**Linder Höhe
51147 Köln
Germany**

as a DESIGN ORGANISATION

approved according to Part 21, Section A, Subpart J.

CONDITIONS :

1. The approval is limited to that specified in the enclosed Terms of Approval, and
2. This approval requires compliance with the procedures specified in the Design Organisation Handbook, reference DOM-Teil1, in the latest revision, and
3. This approval is valid whilst the approved Design Organisation remains in compliance with Part 21, Section A, Subpart J.
4. Subject to compliance with the foregoing conditions, this approval shall remain valid until surrendered or revoked.

For the **European Union Aviation Safety Agency,**

Date of issue: 03 March 2022



Dirk KRAPPEL
Senior DOA Team Leader



Terms of Approval 21J.499

DLR Deutsches Zentrum für Luft-
und Raumfahrt e.V.

Issue 5, 03/03/2022

Terms of Approval

Design Organisation Approval Certificate

EASA.21J.499

1 Scope

This Design Organisation Approval is applicable for the scope defined in Annex A for design work with regard to the airworthiness, operational suitability and environmental characteristics of the products.

2 Privileges

- a) (Reserved)
- b) (Reserved)
- c) The holder of this design organisation approval shall be entitled, within the scope of this terms of approval, and under the relevant procedures of the design assurance system:
 - 1. to classify changes to a type-certificate or to a supplemental type-certificate as “major” or “minor”;
 - 2. to approve minor changes to a type-certificate or to a supplemental type-certificate;
 - 3. (Reserved);
 - 4. (Reserved);
 - 5. not applicable
 - 6. to approve for certain aircraft the flight conditions under which a permit to fly can be issued in accordance with point 21.A.710(a)(2), except for permits to fly to be issued for the purpose of point 21.A.701(a)(15);
 - 7. to issue a permit to fly in accordance with point 21.A.711(b) for an aircraft it has designed or modified, or for which it has approved, in accordance with point 21.A.263(c)(6), the flight conditions under which the permit to fly can be issued, and where the holder of this design organisation approval itself:
 - (i) controls the configuration of the aircraft, and
 - (ii) attests conformity with the design conditions approved for the flight;
 - 8. not applicable
 - 9. not applicable

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3 Obligations

The holder of this design organisation approval shall, within the scope of this terms of approval:

- a) maintain the handbook required under point 21.A.243 in conformity with the design assurance system;
- b) ensure that this handbook or the relevant procedures included by cross-reference are used as a basic working document within the organisation;
- c) determine that the design of products, or changes thereto comply with the applicable specifications and requirements and have no unsafe features;
- d) provide the Agency with statements and associated documentation confirming compliance with point (c), except for approval processes carried out in accordance with point 21.A.263(c);
- e) provide to the Agency data and information related to the actions required under point 21.A.3B;
- f) under the privilege of paragraph 2(c)(6), determine the flight conditions under which a permit to fly can be issued;
- g) under the privilege of paragraph 2(c)(7), establish compliance with points (b) and (e) of point 21.A.711 before issuing a permit to fly to an aircraft;
- h) designate data and information issued under the authority of the approved design organisation within the scope of its terms of approval as established by the Agency with the following statement: "The technical content of this document is approved under the authority of the DOA ref. EASA.21J.499".

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Dirk KRAPPEL
Senior DOA Team Leader

Annex A

Scope of work

	TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
Large aeroplane								
Avionics								
Autoflight systems								
Communication systems								
Diagnostic and Maintenance systems								
Indicating, Alerting systems								
Navigation systems								
Recording systems								
Surveillance systems								
Cabin								
Cabin interiors								
Cargo compartments								
Electrical cabin systems								
External schemes, placards and markings								
Flight deck interiors								
Electrical Systems								
Electrical generation / distribution systems								
External lighting systems								
Wireless transmission systems								
Flight								
Flight characteristics								
Structures								
Control surfaces / Moveables								
Empennage								
Fuselage								
Support for external equipment								
Wings								

Legend:

	Title for category of product
	Title for design scope
	Title for design area

	Within scope
	Outside scope

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List of products

Not applicable.

Limitations

Limitations common to all products and activities

1. Changes affecting OSD are excluded.
2. Development and demonstration of compliance related to SW with IDAL A, B and C is excluded.