APPROVAL CERTIFICATE

EASA.21J.321

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

2Excel Design Ltd
Trading as 'Leading Edge'

72 Fielding Road
London
W4 1DB
United Kingdom

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 «LE-DOH-001», 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 Aviation Safety Agency,**
Date of issue: 27 September 2018

Alexandru ENACHE
Design Organisations Section Manager

An agency of the European Union

2 Excel Design Ltd
trading as 'Leading Edge'

Terms of Approval

Design Organisation Approval Certificate
EASA.21J.321

1 Scope of work

The holder of the Design Organisation Approval is entitled to design in accordance with the applicable type-certification basis, operational suitability data certification basis and environmental protection requirements as defined in Annex A.

2 Privileges

a) The holder of this design organisation approval shall be entitled to perform design activities under Part21 and within its scope of approval.

b) Subject to 21.A.257(b), the Agency shall accept without further verification compliance documents submitted by the holder of this design organisation approval for the purpose of obtaining, as per 21.A.263(b):

1. the approval of flight conditions required for a permit to fly
2. [reserved]
3. a supplemental type-certificate
4. [reserved]
5. a major repair design approval

c) The holder of this design organisation approval shall be entitled, within its terms of approval and under the relevant procedures of the design assurance system, as per 21.A.263(c):

1. to classify changes to type-certificate and repairs as "major" or "minor";
2. to approve minor changes to type-certificate and minor repairs;
3. to issue information or instructions containing the following statement: "The technical content of this document is approved under the authority of DOA ref. EASA.21J.321";
4. to approve minor revisions to the aircraft flight manual and supplements, and issue such revisions containing the following statement: "Revision No [YY] to AFM (or supplement) ref. [ZZ] is approved under the authority of DOA ref. EASA.21J.321.";
5. [not applicable]
6. to approve the conditions under which a permit to fly can be issued in accordance with 21.A.710(a)(2), except for permits to fly to be issued for the purpose of 21.A.701(a)(15);
7. to issue a permit to fly in accordance with 21.A.711(b) for an aircraft it has designed or modified, or for which it has approved under 21.A.263(c)(6) the conditions under which the permit to fly can be issued, and when the design organisation itself is controlling under its Design Organisation Approval the configuration of the aircraft and is attesting conformity with the design conditions approved for the flight.

3 Obligations

The holder of the Design Organisation Approval shall, as per 21.A.265:

a) maintain the handbook in conformity with the design assurance system;
b) ensure that this handbook is used as a basic working document within the organisation;
c) determine that the design of products, or changes or repairs thereof, as applicable, comply with applicable requirements and have no unsafe feature;
d) except for minor changes or repairs approved under the privilege of paragraph 2(c), provide to the Agency statements and associated documentation confirming compliance with paragraph 3(c);
e) provide to the Agency information or instructions related to required actions under Part 21 point 21.A.3B;
f) under the privilege of paragraph 2(c)(6), determine the conditions under which a permit to fly can be issued;
g) under the privilege of paragraph 2(c)(7), establish compliance with Part 21 point 21.A.711(b) and 21.A.711(e) before issuing a permit to fly to an aircraft.

Date of issue: 27/09/2018

Alexandru ENACHE
Design Organisations Section Manager

Annex A

Scope of work

		TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
Airship									
	Avionics								
	All areas	[redacted]							
	Cabin								
	All areas	[redacted]							
	Electrical Systems								
	All areas	[redacted]							
	Environmental Control Systems								
	All areas	[redacted]							
	Flight								
	All areas	[redacted]							
	Hydro-Mechanical Systems								
	All areas	[redacted]							
	Powerplant and Fuel Systems								
	Fuel systems	[redacted]							
	Structures								
	All areas	[redacted]							
Balloon									
	Cabin								
	All areas	[redacted]							
	Structures								
	All areas	[redacted]							

	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								
Environmental Control Systems								
Air conditioning systems								
Bleed systems								
Ice and Rain protection systems								
Oxygen systems								
Pressurization systems								
Water and waste systems								
Flight								
Flight characteristics								

	TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
Large aeroplane, continued								
Hydro-Mechanical Systems								
Flight controls	■	■	■	■	■	■	■	■
Fuselage doors	■	■	■	■	■	■	■	■
Hydraulics/Pneumatics systems	■	■	■	■	■	■	■	■
Landing gear systems	■	■	■	■	■	■	■	■
Ram air turbine	■	■	■	■	■	■	■	■
Powerplant and Fuel Systems								
Fuel systems	■	■	■	■	■	■	■	■
Structures								
Control surfaces / Moveables	■	■	■	■	■	■	■	■
Empennage	■	■	■	■	■	■	■	■
Engine mounts			■		■	■	■	■
Fuselage	■	■	■	■	■	■	■	■
Landing gears			■		■	■	■	■
Support for external equipment	■	■	■	■	■	■	■	■
Wings	■	■	■	■	■	■	■	■
Small aeroplane								
Avionics								
Autoflight systems	■	■	■	■	■	■	■	■
Communication systems	■	■	■	■	■	■	■	■
Diagnostic and Maintenance systems	■	■	■	■	■	■	■	■
Indicating, Alerting systems	■	■	■	■	■	■	■	■
Navigation systems	■	■	■	■	■	■	■	■
Recording systems	■	■	■	■	■	■	■	■
Surveillance systems	■	■	■	■	■	■	■	■

Small aeroplane, continued	TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
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								
Environmental Control Systems								
Air conditioning systems								
Bleed systems								
Ice and Rain protection systems								
Oxygen systems								
Pressurization systems								
Water and waste systems								
Flight								
Flight characteristics								
Hydro-Mechanical Systems								
Flight controls								
Fuselage doors								
Hydraulics/Pneumatics systems								
Landing gear systems								
Ram air turbine								
Powerplant and Fuel Systems								
Fuel systems								

		TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
Small aeroplane, continued									
	Structures								
	Control surfaces / Moveables								
	Empennage								
	Engine mounts								
	Fuselage								
	Landing gears								
	Support for external equipment								
	Wings								
Large and small rotorcraft									
	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								

	TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
Large and small rotorcraft, continued								
Environmental Control Systems								
Air conditioning systems	■	■	■	■	■	■	■	■
Bleed systems	■	■	■	■	■	■	■	■
Ice and Rain protection systems	■	■	■	■	■	■	■	■
Oxygen systems	■	■	■	■	■	■	■	■
Flight								
Flight characteristics	■	■	■	■	■	■	■	■
Hydro-Mechanical Systems								
Flight controls	■	■	■	■	■	■	■	■
Fuselage doors	■	■	■	■	■	■	■	■
Hoist systems / Cargo hook	■	■	■	■	■	■	■	■
Hydraulics/Pneumatics systems	■	■	■	■	■	■	■	■
Landing gear systems	■	■	■	■	■	■	■	■
Powerplant and Fuel Systems								
Fuel systems	■	■	■	■	■	■	■	■
Structures								
Empennage	■	■	■	■	■	■	■	■
Engine mounts			■		■	■	■	■
Fuselage	■	■	■	■	■	■	■	■
Landing gears			■		■	■	■	■
Support for external equipment	■	■	■	■	■	■	■	■
Gyroplane, Very light rotorcraft and VLA / LSA								
Avionics								
All areas	■	■	■	■	■	■	■	■
Cabin								
All areas	■	■	■	■	■	■	■	■
Electrical Systems								
All areas	■	■	■	■	■	■	■	■
Flight								
All areas	■	■	■	■	■	■	■	■

Gyroplane, Very light rotorcraft and VLA / LSA, continued	TC	STC	major changes	minor changes	major repairs	minor repairs	flight conditions	permit to fly
Hydro-Mechanical Systems								
All areas	■	■	■	■	■	■	■	■
Powerplant and Fuel Systems								
Fuel systems	■	■	■	■	■	■	■	■
Structures								
All areas	■	■	■	■	■	■	■	■

Legend:
- Title for product
- Title for scope
- ■ Within scope
- Outside scope

List of products

Not applicable.

Limitations

Limitations common to all products and activities

1) Development and demonstration of compliance related to software and AEH is limited to IDAL D and E only.
2) Development of Operational Suitability Data excludes the OSD constituent Simulator Data.