### European Aviation Safety Agency

#### **EASA**

## TYPE-CERTIFICATE DATA SHEET

**AL-30** 

Tethered Gas Balloon

# Type Certificate Holder: Aeronautical Center Augur Ltd

Aeronautical Center Augur 4 Stepana Shutova st., blv. 1 Moscow RUSSIA

# Manufacturer: Aeronautical Center Augur Ltd

Aeronautical Center Augur 4 Stepana Shutova st., blv. 1 Moscow RUSSIA

Variants: N/A

Issue 1: 10 June 2005

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#### **SECTION 2: CHANGES/VARIANTS**

(Reserved)

#### **SECTION 1: AL-30**

#### I. General

1. Data Sheet No.: EASA BA.007 Issue Date: 10 June 2005

2. a) Type AL-30 b) Variant N/A

3. Airworthiness Category Standard Class

4. Type Certificate Holder Aeronautical Centre Augur 4 Stepana Shutova st., bld. 1

Moscow RUSSIA

5. Manufacturer Aeronautical Center Augur

4 Stepana Shutova st., bld. 1

Moscow RUSSIA

6. National Certification Application Date 7 May 2001

7. ENAC Application Date8. ENAC Recommandation Date20 May 2005

9. EASA Type Certification Date 10 June 2005

10. TCDS History NA

#### II. Certification Basis

1. Reference Date for determining the applicable requirements:

18 May 2001

NA

2. ENAC Type Certificate Data Sheet No.

3. National Type Certification

Russian Civil Aviation Authority (IAC) Type Certificate 207-AL-30, dated 27 June 2002, and Data Sheet dated 27 June 2002, Ed. 01.

4. Certification Basis:

CRI A-01, Issue 3, dated 1 July 2004

 (a) Airworthiness Requirements:FAR 31, Amdt. 31-5, excepting the following para. as Not Applicable to Tethered Balloon design:

31.17	Performance - Climb
31.19.a.2 & 3	Performance - Uncontrolled descent
31.27.c	Strength (gondola)
31.45	Fuel cells
31.46	Pressurised fuel system
31.47	Burners
31.49.c	Control system (gas)
31.49.d & e	Control system (hot air)
31.51	Ballast
31.53	Drag rope
31.61	Static discharge
31.63	Safety belts
31.65	Position lights
/ \ / - \ / 11	

31.81(a)(3)(ii), Operating Limitations & Information -

(iii) Free Climb

31.85.b Required basic equipment (hot air) 31.85.c Required basic equipment (gas)

(b) Elected to comply requirements

31.19.a.2 Performance – Uncontrolled descent

31.49.c Control system (gas)

31.51 Ballast

(c) Special Conditions

SC-01 Load Cell (CRI C-01)

SC-02 Additional Requirements for

Tethered Balloons (CRI D-02)

SC-03 Equipment, Systems and

Installations of Tethered Balloons

(CRI D-01)

SC-04 Additional Italian Requirements for

Operation (CRI F-01)

(d) Exemptions: None

(e) Equivalent Level of Safety: None

(f) Environmental Standards: None

#### III. Technical Characteristics and Operational Limitations

1. Type Design Definition

Rep. "AL-30 Type Design Definition" AL30.0000-ODB3 dated 16.2.2004.

2. Description/Dimensions

2.1. Envelope

The envelope of this balloon has a cutting volume of 3050 m³ and is filled with helium as lifting gas. Internally it is equipped with a ballonet of 480 m³ pressurised by an electric fan. The envelope is equipped with six automatic/electric controlled gas valves and a relief overpressure gas valve. A rip panel is also installed on the top of the envelope.

2.2. Gondola

The annular shaped gondola is of metallic construction. It has a capacity of 18 occupants, with two doors and an external net above the passenger rail.

2.3. Winch

The balloon is connected, by means of a steel cable, to an electric powered winch (model LAL-30), which controls the descent and the

climb speed.

3. Equipment

See Flight Manual, Sect. 9

4. Maximum Altitude

150 m

5. Occupants

Maximum 17 Pax + 1 Pilot

Minimum 1 Pilot

6. Mass

Maximum Mass 2426 Kg

Load cell cable force range: Maximum 2600 Kg Minimum 500 Kg

7. Life Limited Parts

See Flight Manual, Sect. 10

#### IV. Operating and Service Instructions

1. Flight Manual Document AL30.0000-0.P3, Ed. 2004 (See

Note 1)

2. Maintenance Manual See Flight Manual, Sect. 11

#### V. Notes

For operation of the Winch, refer to the Flight Manual, Sect. 6.
For maintenance of the Winch, refer to Maintenance Manual, Sec. 6.

#### **SECTION 2: Changes/Variants**

(Reserved)