TYPE-CERTIFICATE

DATA SHEET

EASA.BA.523

for

CAMERON TGB SERIES
Manned Tethered Gas Balloons

Type Certificate Holder:
CAMERON BALLOONS Ltd

St Johns Street
Bedminster
Bristol BS3 4NH
UNITED KINGDOM

For Variants: TGB-1150

Issue 1, 10 July 2019

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SECTION 1: GENERAL

I. General

1. Data Sheet No: EASA.BA.523  Issue Date: 10 July 2019
2. Type / Variant or Model
   (a) Type: Cameron TGB Series
   (b) Variant or Model: TGB-1150
   (c) Serial: 12043
3. Airworthiness Category: Restricted
4. Type Certificate Holder: CAMERON BALLOONS LTD.
   St Johns Street
   Bedminster
   Bristol BS3 4NH
   UNITED KINGDOM
5. Manufacturer: CAMERON BALLOONS LTD.
   St Johns Street
   Bedminster
   Bristol BS3 4NH
   UNITED KINGDOM
6. EASA Certification date: 10 July 2019

II. Certification Basis

1. Reference date for determining the applicable requirements: 10 Jan 2019
2. Airworthiness Requirements: EASA CS 31TGB Initial Issue except CS 31TGB.51
4. Reversion and Exemptions: None
5. Equivalent Safety Findings: None

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: CB1783 Issue C or subsequent approved issue.
2. Description: Manned tethered gas balloon for theatrical display and transport of passengers.
   2.1 Envelope:
   Spherical envelope of approximately 1204 m3 total volume, constructed from coated fabric with load transfer by net and lines. An air ballonet of 20% volume is installed in the lower part of the envelope. Pressure is controlled by automatic air fans and automatically and manually controlled over pressure valves.
   2.2 Gondola:
   The gondola is a conventional basket of woven construction with a plywood floor; size 107 x 107 cm
   Helium temperature gauge
   Air ballonet pressure gauge
   Anemometer with ambient air temperature reading.
   Load cell (winch-mounted)
   Auto/manual helium valve
   Auto/manual Ballonet Air valve

4. Ground Facilities: Electrically driven cable winch and controls from Ritter Maschinen (Fabriknummer: 19.PZWE.605). The usable cable length is 50m.
   Display of balloon control system parameters via telemetry.
   Anemometer display.
   3 positioning winches manually controlled.

5. Minimum Occupants: None (pilot is ground-based).
6. Maximum Occupants: Three
7. Maximum Mass: 944 kg. Minimum free lift is calculated in Flight Manual Section 5
8. Maximum Windspeed: 8.3 m/sec (16 knots, 30 km/h) for flight operations,
   27.8 m/sec (54 knots, 100 km/h) for mooring,
   1.5 m/sec (3 knots, 5.5 km/h) for inflation
9. Minimum Crew: See Flight Manual Section 2.6
12. Operational Limitations: Serials listed under I. 2 (c) can only be operated by the Bregenz Festspiele at the Lage Stage in Bregenz, Austria (47°30'21.6"N 9°44'16.8"E) until 31. Oct 2019.

IV. Operation and Service Instructions

1. Cameron Balloons Tethered Gas Balloon Flight Manual and Supplements - Issue 1 Amendment 2 or later approved EASA revision.
2. Cameron Balloons Tethered Gas Balloon Maintenance Manual and Supplements - Issue 1 or later approved EASA revision.

V. Notes
Note 1 Repairs and replacement of the tether system require a re-evaluation of the compliance declaration in accordance with 31TGB.53

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