State Aviation Administration

SAA

TYPE CERTIFICATE DATA SHEET № TL 0043

GULFSTREAM G150

Type Certificate Holder: GULFSTREAM AEROSPACE LP (GALP)
C/O Israel Aircraft Industries Ltd
DPT 4199 Ben Gurion International Airport
70100 Israel

Models: Gulfstream G150

Issue 1, 25 May 2010

This Data Sheet which is integral part of Type Certificate № TL 0043 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the airworthiness requirements and environmental protection requirements, stated in Certification basis mentioned in this Data Sheet.

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SECTION 1: GENERAL

1. Data Sheet No: TL 0043
2. Type Certificate Holder: GULFSTREAM AEROSPACE LP (GALP)
   C/O Israel Aircraft Industries Ltd
   DPT 4199 Ben Gurion International Airport
   70100 Israel
   Civil Aviation Administration of Israel (CAA1)
   Transport category airplane
3. Certifying Authority:
4. Airworthiness Category:

SECTION 2: MODEL Gulfstream G150

I. General

1. Aircraft designation: Gulfstream G150
2. Application Date for SAA Certification:
   Gulfstream G150 08 January 2008
3. SAA Certification Date:
   Gulfstream G150 20 May 2010

II. Certification Basis

1. Reference Application Date for EASA Certification:
   Gulfstream G150 22 September 2002
2. EASA Certification Date:
   Gulfstream G150 13 July 2007
3. EASA Certification Basis:
   JAR 25, change 15
4. SAA Certification Basis:
   AR-25 “Airworthiness Standards for Transport Category Airplanes”

Equivalent Safety Findings:

AR 25.1419 (A)(B)(C) Ice protection (ref. CRI SL-3);
AR 25.809(A) Emergency equipment construction (ref. CRI D-8);
Д25Ф5.10.1.4 Electrical supply to power CVR (ref. CRI A-10);
Д25Ф8.2.2.14 The list of standby devices (ref. CRI A-15);
AR D25.8.8.3.1.14 Min oil quantity warning (ref. CRI E-3/1);
AR D25.8.8.3.1.22 Engine surge warning (ref. CRI E-3/1);
AR 25.1121(c) APU Exhaust System Installation (ref. CRI E-3/1);
AR 25.1203(a) Tailpipe Fire Detection
AR 25.1305(c)(3) Digital Only Display of Turbine Engine HP Rotor Speed (N2)

Environmental Standards:

Noise: ICAO Annex 16, Volume I, Aircraft Noise,
III. Technical Characteristics and Operational Limitations

1. General

G150 is a derivative of the Gulfstream model G100 retaining the wings, empennage, engines* and most of the systems. It will be used as a nine passenger executive jet with a maximum takeoff weight of 26100 lbs and a maximum operating altitude of 45000 feet.

* The G150 engines are the same as G100 engines except an increase of up to 6.5% in thrust achieved by modification of the Engine Electronic Control (EEC).

Due to this difference, engine designation is changed from TFE 731-40-R-200G to TFE 731-40AR-200G.

1.1. Type Design Definition:
Build Standard Definition Document 25G000/061030

1.2. Equipment:
Master Equipment List Report # 25G000/051724 (See note 2)

1.3. Engines: Two Honeywell TFE 731-40AR-200G,
Ukrainian TCDS No. TD 0026

1.3.1. Engine Limits:
Static thrust at sea level, lbs:
- take-off (5mn) (with and without APR): 4420
- maximum continuous: 4420

Fluids (Fuel, oil, additives): see maintenance manual for approved fluids.
Other engine limitations: See the TCDS No. TD 0026

1.4. Fuel:
Refer to Airplane Flight Manual.

1.5. Limit Speeds:
Refer to approved Airplane Flight Manual.

1.6. Centre of Gravity Range:
Refer to approved Airplane Flight Manual.

1.7. Maximum Certified Weights:

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramp Gross Weight</td>
<td>11907</td>
<td>26250</td>
</tr>
<tr>
<td>Maximum Take-Off Weight</td>
<td>11839</td>
<td>26100</td>
</tr>
<tr>
<td>Maximum Landing Weight</td>
<td>9843</td>
<td>21700</td>
</tr>
<tr>
<td>Maximum Zero Fuel Weight</td>
<td>7938</td>
<td>17500</td>
</tr>
</tbody>
</table>

1.8. Fuel Quantity (Density 6.7 lbs per US Gallon)

<table>
<thead>
<tr>
<th></th>
<th>Wing Tanks</th>
<th>Collectors</th>
<th>CTS</th>
<th>Fuselage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total/Usable Fuel</td>
<td>3592/3574</td>
<td>116/105</td>
<td>1317/1315</td>
<td>5308/5306</td>
</tr>
<tr>
<td>(LBS) Arm (INCHES)</td>
<td>342</td>
<td>334.8</td>
<td>310.6</td>
<td>388.2</td>
</tr>
<tr>
<td>Unusable Fuel (LBS)</td>
<td>18.6</td>
<td>11</td>
<td>1.6</td>
<td>1.8</td>
</tr>
<tr>
<td>Arm (INCHES)</td>
<td>342.1</td>
<td>348</td>
<td>310.7</td>
<td>388.4</td>
</tr>
</tbody>
</table>
Fuel System

<table>
<thead>
<tr>
<th></th>
<th>LBS (gallons)</th>
<th>ARM (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unusable (drainable from tanks</td>
<td>22.7 (3.4)</td>
<td>343.8</td>
</tr>
<tr>
<td>drain and lines)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undrainable (trapped in tanks</td>
<td>22.4 (3.3)</td>
<td>394.2</td>
</tr>
<tr>
<td>and lines)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.9. **Minimum Flight Crew:**
Two (2): Pilot and Co-pilot

1.10. **Maximum Certified Passenger Seating Capacity:**
The Aircraft is eligible for carriage of 9 passengers provided approved seating arrangement and related required passenger provisions are incorporated in accordance with the Certification Basis.

1.11. **Cargo compartment loading:**

<table>
<thead>
<tr>
<th></th>
<th>LBS</th>
<th>ARM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100</td>
<td></td>
<td>452</td>
</tr>
</tbody>
</table>

1.12. **Environmental Flight Envelope:**
Refer to approved Airplane Flight Manual.

1.13. **Other Limitations:**
Refer to approved Airplane Flight Manual and Supplement to the AFM for operation in Ukraine.

1.14. **Auxiliary Power Unit (APU):**
One Honeywell APU Model RE100(CS), Oils : refer to applicable approved Manuals

1.15. **Equipment:**
The equipment required by the applicable requirements shall be installed:
- FDR is available by STC procedure;
- Portable Emergency VHF/UHF Radio Beacons "COSPAS-SARSAT" is available by STC procedure (required for the operating over difficult of access and rarely populated regions and large water surfaces).

1.16. **Service Information:**
Service Bulletins, Continuing Airworthiness Instructions, including Airworthiness Directives (ADs) and the Structural Repair Manual and Major Repairs, which contain a statement that the document is Civil Aviation Administration of Israel (CAA) approved, are accepted by the EASA and considered EASA approved, taking into account the EASA Certification Basis and the EASA approved Type Design of the airplane.

1.17. **Maintenance Instructions:**
Information essential to the proper servicing and maintenance of the aircraft is contained in the Manufacturer’s Manual section of the Instructions for Continued Airworthiness Manual P/N G150-1001-3.
Mandatory replacement times, structural inspection intervals and related structural inspection procedures and Certification Maintenance Requirements are presented in the approved Airworthiness Limitations Section 05-10-10 of the AMM.

**IV. Operating and Service Instructions**

1. **Operating Instructions:**
- EASA Gulfstream G150 Airplane Flight Manual;
- G150 Weight and Balance Manual;
- G150 JAA Master Minimum Equipment List;
- Supplement to the AFM for operation in Ukraine.

2. Service Instructions:
- G150 Aircraft Maintenance Manual;
- Airworthiness Limitations Aircraft Maintenance Manual Chapter 5;
- Certification Maintenance Requirements Report 25G041/051580;
- Aircraft Maintenance Manual Chapter 5;
- Structural Repair Manual;
- Customer Bulletins;
- Maintenance Operations Letters;
- Illustrated Parts Catalogue;
SECTION 3: Notes

Note 1  Israel Aerospace Industries (IAI) LTD., Ben Gurion International Airport 70100, ISRAEL, is licensed by GULFSTREAM AEROSPACE LP to manufacture and obtain Airworthiness Certificates for the aircraft models listed in this Type Certificate Data Sheet.

Note 2  For equipment eligible for installation refer to Report 25G000/051724, latest revision, titled "G150 Master Equipment List" and Report 25G000/061030, latest revision, titled "G150 Type Design Definition for EASA Certification (Build Standard)."

Note 3  This aircraft is certified without a furnished interior, i.e. in a "Green Aircraft" configuration.
   The Aircraft is eligible for carriage of up to 9 passengers provided approved seating arrangement and related required passenger provisions are incorporated in accordance with the EASA Certification Basis.
   Cabin interior installations must be in accordance with IAI G150 Report 25G000/031685 titled "G150 Certification Specification for the "Green Aircraft – Completion Center Interface".

Note 4  EASA Certification is restricted to Aircraft complying with the configuration defined in Report 25G000/061030, latest revision, titled "G150 Type Design Definition for EASA Certification (Build Standard)."

Note 5  All required placards listed in the Limitation Section of the approved EASA Airplane Flight Manual must be installed in the appropriate locations in the airplane.

Head of Aeronautical Products
Type Certification Department

Sergii Haidenko