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on
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8.30 ENVELOPE LASER DISPLAY SYSTEM

8.30.1 GENERAL INFORMATION

Issue 1 of this supplement has four pages.

Supplement 7.30 to Maintenance Manual Issue 10 is required to ensure continued airworthiness.

This supplement was originally approved by UK.CAA as Supplement 15 to Flight Manual, Issue 9 on 03 September 2003.

This system projects a laser graphic display on to the inside of the balloon envelope.

The laser must be operated and maintained in accordance with the manufacturers Operating Manual.

8.30.2 LIMITATIONS

8.30.2.7 CREW

4. The occupants of the basket shall be limited to persons involved in the safe operation of laser system and the safe operation of the balloon.

8.30.2.18 LASER SYSTEM

1. The laser system must only be used during tethered flight.
2. The laser projection area must be constructed of white fabric and load tapes.
3. The use of the laser system must be recorded in the aircraft log book.
4. Any envelope in which the laser has been used must be considered as not airworthy until it has been inspected in accordance with Maintenance Manual Supplement 7.30.6.2.
5. The generator must be mounted so that the fuel cut-off is accessible to the operator.

8.30.3 EMERGENCY PROCEDURES

No change

8.30.4 NORMAL PROCEDURES**8.30.4.3.2 Basket Rigging**

The generator mounting plate is strapped to the inside of the basket. The generator exhaust must be fed through the basket wall by the shortest route possible, and the exhaust must not pass within 100 mm of any fuel cylinder.

The case containing the laser equipment must be strapped to the basket sidewall.

8.30.5 WEIGHT CALCULATIONS

No change.

8.30.6 BALLOON AND SYSTEMS DESCRIPTION

No change.

8.30.7 BALLOON MAINTENANCE, HANDLING AND CARE

No change.

8.30.9 EQUIPMENT LIST

No change.

7.30 ENVELOPE LASER DISPLAY SYSTEM

7.30.1 GENERAL

No change.

7.30.2 ENVELOPE REPAIRS

No change.

7.30.3 BASKET REPAIRS

No change.

7.30.4 FUEL SYSTEM REPAIRS

No change.

7.30.5 INSTRUMENT REPAIRS

No change.

7.30.6 INSPECTION SCHEDULE

7.30.6.2 SCHEDULED INSPECTIONS

Where the envelope is used with the laser display system, the areas of the envelope on which the laser impinges must be inspected prior to each tethered flight for signs of discolouration or any other physical evidence of damage.

The areas of the envelope on which the laser impinges must be grab tested after every 10 hr of laser operation in accordance with Section 6.20.

If the envelope is to be flown free following any exposure to the laser, the areas of the envelope on which the laser impinges must be grab tested in accordance with Section 6.19 before the envelope can be considered airworthy.

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