

#### 6.4 DOCUMENTATION

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|----|--|--|
| 1. | The Aircraft Logbook (logbook), Certificate of Airworthiness (C of A) and Flight Manual must be present at the time of inspection. |  |
| 2. | Check that the correct component serial numbers are entered in the logbook (e.g. basket, burner and fuel cylinders).               |  |
| 3. | Check the applicability of the Flight Manual to all the major components.  |  |
| 4. | Where components are made by another manufacturer, check for the available supplementary operational and maintenance instructions  |  |
| 5. | Check the applicability of services bulletins, AD's and other mandatory continued airworthiness requirements                       |  |

#### 6.5 ENVELOPE

|    |   |  |
|----|---|--|
| 1. | Check the condition of the crown ring and crown line.   |  |
| 2. | Check the joints of the vertical load tapes with the crown ring.  |  |
| 3. | Check the stitching of the joints between the vertical tapes and the overlying tapes across the parachute or rip panel aperture.  |  |
| 4. | Check the stitching of the joints between the vertical tapes and the top edge of the envelope.  |  |
| 5. | Check that the temperature streamer and melting link are fitted and securely attached (load tape 2, near the top of the envelope).  |  |
| 6. | Inspect the Tempilabel (load tape 3, near top of the envelope and parachute edge). Record the maximum temperature indicated by the label in the logbook. If overheating is indicated (over 121°C) perform an envelope overheat inspection (Section 6.22.2). |  |
| 7. | If the envelope has flown more than 250 hours, is suspected of having been overheated, or at the inspector's discretion, perform a grab test (Section 6.20).  |  |
| 8. | If substantial fabric porosity is suspected then a flight test should be performed, but only after a grab test has demonstrated the balloon is safe to fly (Sections 6.20 and 6.21).  |  |

**Note:** If there are any doubts about the parachute seal then the balloon should be inflated and the parachute seal inspected.

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**6.5 ENVELOPE (CONTINUED)**

|     |   |  |
|-----|---|--|
| 9.  | Check the joints of the vertical load tapes with the flying cables for chafing or heat damage. The Protectors must still be in place.   |  |
| 10. | Check the condition of the control line pulleys and pulley attachments.   |  |
| 11. | Check the condition of the flying cables.   |  |
| 12. | Check the condition of the fabric panels and seams. Inspect the panels and seams for holes, tears or any other damage either by inflating the balloon or by a panel-by-panel inspection. Special shape balloons must be inflated. |  |

**6.6 TURNING VENTS**

|    |  |  |
|----|--|--|
| 1. | Check the stitching at the top and bottom of the vent, at the ends of the free tapes and at the ends of the pulling triangles.   |  |
| 2. | Check the condition of the fabric in the turning vent- especially the portion of the fabric inside the balloon. If signs of overheating are evident, the affected areas must be grab tested.     |  |
| 3. | Check that T&C envelopes with a CN number lower than 3550 and fitted with turning vents have been modified in accordance with Service Bulletin 2. (An entry will have been made in the logbook.) |  |

**6.7 PARACHUTE DEFLATION SYSTEM**

|    |  |  |
|----|--|--|
| 1. | Check the condition of the fabric at the edge of the parachute panel.  |  |
| 2. | Check that the centralising and shroud lines are in good condition. Special attention should be given to the shroud lines near the parachute pulley. |  |
| 3. | Check the knots and the stitching of loops to both the balloon and the parachute panel.  |  |

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**6.8 LOCK-TOP DEFLATION SYSTEM**

|    |   |  |
|----|---|--|
| 1. | Inspect as for a parachute deflation system (Section 6.7).                                |  |
| 2. | Check the stitching of the arming line guide rings and the condition of the arming line.  |  |
| 3. | Check the condition of the quick release shackle and that it operates smoothly.           |  |
| 4. | Check the security of the rings attached to the crown ring and the parachute crown patch. |  |

**6.9 RDS, SMART VENT AND SKY SDS DEFLATION SYSTEMS**

|    |  |  |
|----|--|--|
| 1. | Inspect as for a parachute deflation system (Section 6.7).   |  |
| 2. | Check the centralising / shroud line pulleys (on envelope and parachute edge) for axle wear and free rotation. Check that the pulley attachments are secure.               |  |
| 3. | Check the parachute shroud / centralising lines for wear or damage.  |  |
| 4. | Check the parachute top strings and attachments for wear or damage. (Smart Vent and Sky SDS)   |  |
| 5. | Check the parachute restraint lines and attachments for wear or damage. Check the sliding rings and the mid-gore tapes fitted with sliding rings for wear or damage (RDS). |  |
| 6. | Check the attachment of the ripline to the inside of the parachute panel.  |  |
| 7. | Check that the vent line deployment bag is fitted in the basket.   |  |

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**6.10 TRIVENT DEFLATION SYSTEM**

|    |   |  |
|----|---|--|
| 1. | Check the condition of the Trivent panel as for a standard parachute (Section 6.7)  |  |
| 2. | Check the attachment of the ripline to the Trivent flap   |  |
| 3. | Check the ripline and the vent / closing lines for wear or damage especially where the 3 mm polyester lines pass through the stainless steel rings. |  |
| 4. | Check the attachments of the vent / closing lines to the flap for wear or damage  |  |
| 5. | Check that the vent line deployment bag is fitted in the basket   |  |

**6.11 VELCRO RIP PANEL**

|    |   |  |
|----|---|--|
| 1. | Check the visual appearance and performance of the Velcro.                                    |  |
| 2. | Check the condition of the fabric adjacent to the Velcro.                                     |  |
| 3. | Check the length of the free load tapes (Section 6.19)  |  |
| 4. | Check the condition of the riplock installation   |  |
| 5. | Triangular or rectangular Velcro rips- replace Velcro every 100 hours.                        |  |
| 6. | Capewell riplocks (if fitted)- Check operation of Capewells and condition of adjacent fabric. |  |

**6.12 SIDE VENT**

**Note:** If a turning vent style dump is fitted inspect as for a turning vent (Section 6.6).

For conventional side dumps inspect as follows-

|    |   |  |
|----|---|--|
| 1. | Check overlying tapes and stitching at ends of flap         |  |
| 2. | Check condition of shock cord, pulleys and attachments.     |  |
| 3. | Ensure that vent line stop is fitted and in good condition. |  |

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**6.13 BURNER AND FUEL SYSTEM**

|    |  |  |
|----|--|--|
| 1. | Check type and condition of karabiners.  |  |
| 2. | Check physical condition of burner, burner frame and hoses.  |  |
| 3. | Check that necessary lubrication has been carried out on the main blast valve and whisper valve of Shadow and Stealth burners, and the main blast valve of Sirocco Burners             |  |
| 4. | Check that Sky Mistral burners have been modified in accordance with Service Bulletin 10 (The manifold block will be engraved 'SB10' and an entry will have been made in the logbook). |  |
| 5. | Perform a functional check on the burner and fuel system (Section 6.17.3).   |  |

**6.14 FUEL CYLINDERS**

|    |  |  |
|----|--|--|
| 1. | Check that the cylinder periodic inspections for each cylinder are current (Section 6.18)  |  |
| 2. | Remove the cylinder padded covers and perform an external visual inspection (Section 6.18.1)   |  |
| 3. | Check all valves and fittings for correct operation, damage and signs of corrosion.  |  |
| 4. | Remove the Pressure Relief Valve (PRV) dust cover (Standard cylinders only) and inspect the valve for contamination and corrosion. Check the date stamp on the PRV (Section 6.18.2).   |  |
| 5. | Inspect the offtake bosses for signs of distortion, misalignment or depression, denoting a heavy impact or misuse (Section 6.18.1).  |  |
| 6. | Check all pressure holding joints with leak detector (all threads into cylinder, all joints between valves / regulators / connectors, valve stems (open and close during this test), the seal around the contents gauge and welds around bosses) (Section 6.18.3). |  |
| 7. | Check freedom of movement of contents gauges (Section 6.18.3).   |  |
| 8. | Perform a functional check on each fuel cylinder (Section 6.18.3).   |  |

**Note:** All stainless steel and Titanium cylinders must be fitted with a padded cover.

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**6.15 BASKET**

|     |   |  |
|-----|---|--|
| 1.  | Check the condition of the nylon support rods.                                      |  |
| 2.  | Check the condition of the basket wires.  |  |
| 3.  | Check the condition of the basket frames.   |  |
| 4.  | Check the condition of the basket weave.  |  |
| 5.  | Check the condition of the protective rawhide on the lower edge of the basket.      |  |
| 6.  | Check the condition of the rope handles   |  |
| 7.  | Check the number, condition and type of the cylinder straps                         |  |
| 8.  | Check that the fire extinguisher maintained according to manufacturers instructions |  |
| 9.  | Check the condition of the pilot restraint harness anchor (if fitted).              |  |
| 10. | Check the condition of the basket floor.  |  |

**6.16 ANCILLARY EQUIPMENT (IF FITTED)**

|    |   |  |
|----|---|--|
| 1. | <b>Launch restraint-</b> Check function and condition of latch. Check bridle and ropes for wear, fading or damage. Check karabiners for damage and correct operation. |  |
| 2. | <b>Pilot restraint harness-</b> Check function of buckle. Check webbing for wear or fading or damage.   |  |
| 3. | Verify that instruments are operational (if applicable).  |  |

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