

Schedule 27 **ATSO-C1006 — Restraint system automated release device**

(subsection 13.2 (1), table, item 7)

1 **Application**

This Schedule applies to an article manufacturer in relation to a restraint system automated release device.

2 **Definitions**

In this Schedule:

restraint means a tether, strop, cargo tie-down, seat belt or similar device, which includes its own manual release system.

restraint system automated release device or **RSARD** means a device that:

- (a) is an add-on dual-purpose restraint-release device used in conjunction with a restraint and an anchor point in an aircraft; and
- (b) keeps a person or an item restrained inside the aircraft during flight; and
- (c) automatically activates to release the person or restrained item from the anchor point if the aircraft ditches or crashes into water; and
- (d) is not aircraft type specific.

RTCA/DO-160G means the RTCA Document RTCA/DO-160G called *Environmental Conditions and Test Procedures for Airborne Equipment*, or a later version of RTCA Document No. DO-160, as existing from time to time.

3 **Minimum performance standard — compliance with RTCA/DO-160G**

The RSARD must comply with the standards in the provision of RTCA/DO-160G mentioned in column 2 of an item of the following table in relation to the environmental conditions mentioned in column 1 of the item.

| Compliance with RTCA/DO-160G | | |
|-------------------------------------|--|---|
| Item | Column 1 Environmental conditions | Column 2 Provision of RTCA/DO-160G |
| 1 | Temperature and altitude | Section 4, Category A2 |
| 2 | Temperature variation | Section 5, Category B |
| 3 | Humidity | Section 6, Category B |
| 4 | Operational shocks and crash safety | Section 7, Category A |
| 5 | Vibration | Section 8, Category U, fuselage zone, unknown helicopter frequency |
| 6 | Waterproofness | Section 10, Category W |
| 7 | Sand and dust | Section 12, Category S |
| 8 | Salt fog | Section 14, Category T |
| 9 | Radio frequency susceptibility | Section 20, Category R modified with an upper frequency limit of 12 GHz |
| 10 | Fire, flammability | Section 26, Category C |