European Aviation Safety Agency

European Technical Standard Order

Subject: Information Collection and Monitoring Systems

1 - Applicability
This ETSO gives the requirements which Information Collection and Monitoring Systems that record cockpit audio, aircraft data, airborne images, or data link communications and that are manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 - Procedures
2.1 - General
Applicable procedures are detailed in CS-ETSO Subpart A.
2.2 - Specific
None.

3 - Technical Conditions
3.1 - Basic
3.1.1 - Minimum Performance Standard

All ICMS must meet the requirements in ED-155 Chapters 2-1, 2-2, 2-3 and 2-4 of Section 2. All deployable ICMS must also meet the requirements in ED-155 Chapters 3-1, 3-2, 3-3 and 3-4 of Section 3. Additionally, each Type of ICMS must meet the requirements of ED-155 listed in the table below.

<table>
<thead>
<tr>
<th>ICMS Type</th>
<th>Your design must also meet the following requirements in ED-155</th>
<th>Your design does not need to meet the following requirements in ED-155</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Part I, Cockpit Audio Recording System</td>
<td>I-2.1.7 and I-6</td>
</tr>
<tr>
<td>II</td>
<td>Part II, Aircraft Data Recording System</td>
<td>II-2.1.7, II-2.1.9, II-2.1.12, and II-6</td>
</tr>
</tbody>
</table>
### III - Part III, Airborne Image Recording System

<table>
<thead>
<tr>
<th>III-2.2 and III-6</th>
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</table>

### IV - Part IV, Data-link Recording System

<table>
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<tr>
<th>IV-2.1.6, IV-2.1.11, and IV-6</th>
</tr>
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</table>

#### 3.1.2 - Environmental Standard
- See CS-ETSO Subpart A paragraph 2.1.

#### 3.1.3 - Computer Software
- See CS-ETSO Subpart A paragraph 2.2.

#### 3.1.4 - Electronic Hardware Qualification
- See CS-ETSO Subpart A paragraph 2.3.

#### 3.2 - Specific

##### 3.2.1 - The height (a), width (b), and depth (c) of the crash enclosure must each be 4 cm (1.5 inches) or greater.

##### 3.2.2 - Failure Condition Classification
- See CS-ETSO Subpart A paragraph 2.4
  - Failure of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a minor failure condition. Loss of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a minor failure condition.
  
  **Note:** The failure classification is driven by the accident investigation need.

#### 4 - Marking

##### 4.1 - General
- Marking as detailed in CS-ETSO Subpart A paragraph 1.2.

##### 4.2 - Specific
- None.

#### 5 - Availability of Referenced Document
- See CS-ETSO Subpart A paragraph 3.