European Aviation Safety Agency

European Technical Standard Order (ETSO)

SUBJECT: Data Link Recorder Equipment

1 – Applicability
This ETSO gives the requirements that new models of data link recorder systems that are designed and 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
Standards set forth in the applicable sections of EUROCAE document ED-112A 'Minimum Operational Performance Specification for Crash Protected Airborne Recorder Systems' dated September 2013 that pertain to the data link recorder types as defined in table 1 below, except for the following exclusions: Chapters IV-1 and IV-6, and Sections 2-1.1, 2-1.5, 2-1.6, 2-1.11, 2-1.12, 2-3.1, 2-5, 3-1.1, 3-1.2, 3-1.3, 3-1.4, 3-1.5, 3-1.7, 3-4 and Annex IV-B

<table>
<thead>
<tr>
<th>Recorder Type</th>
<th>ED-112A Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single DLR</td>
<td>Section 2 and Part IV</td>
</tr>
<tr>
<td>DLR function in a deployable recorder</td>
<td>Section 2, Section 3 and Part IV</td>
</tr>
<tr>
<td>DLR function in a combined recorder</td>
<td>Section 2, Section 4 and Part IV</td>
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Table 1: MPS Requirements per recorder type

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.
3.2 - Specific

3.2.1 Failure Condition Classification
See CS-ETSO, Subpart A, paragraph 2.4.
Loss or erroneous behaviour 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 is detailed in CS-ETSO, Subpart A, paragraph 1.2

4.2 – Specific
See EUROCAE document ED-112A 2-1.16.3.

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