

European Aviation Safety Agency

European Technical Standard Order (ETSO)

Subject: **NICKEL-CADMIUM AND LEAD-ACID BATTERIES**

1 - Applicability

This ETSO gives the requirements which Nickel-Cadmium and Lead-Acid Batteries that are manufactured on or after the effective 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

RTCA standard DO-293 *"Minimum Operational Performance Standards (MPS) for Nickel-Cadmium and Lead-Acid Batteries"* (from 29 July 2004).

3.1.2 - Environmental Standard

Nickel-cadmium and lead-acid batteries must be tested according to the conditions specified in RTCA/DO-293.

Were in RTCA/DO-293, the information references to ED-14D (RTCA DO-160D) *"Environmental Conditions and Test Procedures for Airborne Equipment"*, from July 29,1997, ED-14E (RTCA DO-160E) from March 2005 must be used instead of ED-14D (RTCA DO-160D).

3.1.3 - Computer Software

None

3.2 – Specific

None

4 - Marking

4.1. - General

Marking is detailed in CS-ETSO Subpart A paragraph 1.2.

4.2. - Specific

Each Nickel-Cadmium and Lead-Acid Battery must be permanently and legibly marked according to information provided in RTCA/DO-293, Section 1.10.

5 - Availability of Referenced Document

See CS-ETSO Subpart A paragraph 3