
**Space systems — Non-flight items in
flight hardware — Identification and
control**

*Systèmes spatiaux — Articles non destinés au vol sur matériel volant —
Identification et contrôle*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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Introduction

It is essential that non-flight items which have been used for test, safety or as production aids are removed from flight hardware before flight, so that they do not interfere with mission performance. In order to achieve that requirement, positive identification of such non-flight items is needed. A log needs to be maintained of all critical non-flight items pertaining to a stated piece of flight hardware. Each item needs to be identified by coloured streamers and covers as appropriate. Upon removal from the hardware, evidence of removal needs to be recorded for each item, e.g. by placing the item in a dedicated accountability box that is then photographed when full to demonstrate complete removal of all non-flight items from the hardware. This International Standard addresses the identification of non-flight items and the control measures required to ensure their removal before launch.

Throughout this International Standard, the minimum essential criteria are identified by the use of the key word “shall”. Recommended criteria are identified by the use of the key word “should”, and while not mandatory, are considered to be of primary importance in providing serviceable, economical and practical procedures. Deviation from the recommended criteria is acceptable only after careful consideration, extensive testing and thorough service evaluation have shown alternative methods to be satisfactory.

Space systems — Non-flight items in flight hardware — Identification and control

1 Scope

This International Standard describes the identification of critical non-flight items in space flight hardware and the procedure to account for their complete removal prior to flight. This International Standard is used in context with project-specific quality requirements and procedures related to flight hardware and related activities prior to launch and at the launch site. Verification of removal of critical non-flight items is described in this International Standard.

Removal of other non-flight items is outside the scope of this International Standard and is verified by relevant inspection procedures.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

critical non-flight item

item of non-flight equipment whose presence in or on launched flight hardware would severely jeopardise mission performance

EXAMPLE Protective equipment cover, safety device, locking pin, fastener, ground support interface equipment.

2.2

other non-flight item

item of non-flight equipment that is not considered in the procedure described in this International Standard

EXAMPLE Tape and connector caps that can be used to provide temporary protection.

3 Control method

3.1 General

The control of critical non-flight items shall consist as a minimum of three elements, as follows:

- a) log of critical non-flight items;
- b) visual identification of critical non-flight items;
- c) storage of critical non-flight items.