1. (normative)  
   Mechanism analytical verification (MAV) - DRD
   1. DRD identification
      1. Requirement identification and source document

This DRD is called from ECSS-ST-E-33-01, requirement 4.10b.

* + 1. Purpose and objective

The purpose of the mechanism analytical verification (MAV) is to provide the customer with a comprehensive functional and performance analysis of the mechanism.

* 1. Expected response
     1. Scope and content

Introduction, references and terminology

The MAV shall contain a description of the purpose, objective, content and the reason prompting its preparation.

1. For example: This document provides all functional and performances analyses of the “name” mechanism for the “name” project. This document is part of the verification files and ensures that the mechanism is sized to meet the related requirements.

The MAV shall list:

all the applicable documents regarding requirements related to design and performance;

the design definition file reference of the mechanism being analysed;

the list of documents providing inputs to analyses presented in this document;

any other applicable and reference documents to support the generation of the document.

1. 1 to item 3: For example, thermal analysis, structural analysis, and test reports.
2. 2 to item 3: Subsystems and parts data to be included.

The MAV shall include any additional definition, abbreviation or symbol used.

Mission and mechanism main functions

The MAV shall describe the mission and the role of the mechanism in achieving the mission.

The primary functions of the mechanism shall be described.

Analytical verification

The MAV shall provide all analyses regarding analytical verification as defined in 4.8.2

For each of the analyses of C.2.1<3>a, the results shall be summarized in a table and compared to the requirements.

1. Each specific analysis can be provided in a separate document or grouped together.
   * 1. Special remarks

None.