1. (normative)  
   Verification report - DRD
   1. DRD identification
      1. Requirement identification and source document

This DRD is called from ECSS-Q-ST-70-61, requirement 13.1.6a.

* + 1. Purpose and objective

The purpose of the Verification report DRD is to summarize all the verification test specifications, procedures and test results which are relevant for the approval of the assembly component verifications.

* 1. Expected response
     1. Scope and content

The verification documentation shall contain as a minimum the following:

Indication of process of the assembly:

soldering process

repair process.

PCB information:

PCB material and manufacturer

PCB footprint surface finish

Number of layers

Thickness

Build up with identification of signal and full copper plane

Connection of the footprints to the internal layer representative of the FM

Location of the components on the PCB

For through hole component, ratio of hole to lead diameter

Location of the mechanical fixation or stiffeners if any

Number of PCB used for the verification programme.

Materials used

Solder paste and wire designation, commercial trademark, and composition with associated flux class

Flux class used for pretinning and soldering

Conformal coating

Adhesive for mechanical, and for thermal

Solvent

Others.

List of components with their materials leads and finish (including traceability).

Mechanical specification of the component with associated manufacturer specification.

Environmental test conditions and facility

Visual inspection report established in conformance with the requirements of clause 12

Summary of cleanliness test results in conformance with clause 11.1.2 of ECSS-Q-ST-70-61 or equivalent process when applicable

Tests results concerning the warp (bow) and twist of circuit board in conformance when applicable

Electrical continuity test report for multilayer boards when applicable

Verification method Microsection or Electrical monitoring

Microsection laboratory

PID and Manufacturing document process references

Verification workflow

Verification by similarity

NCRs

Certification status of the operators and inspectors

Compliance status of the operators and inspectors

Compliance of the manufacturing room

Quality records

Additional information.

The verification report shall contain the results of all tests performed according to clauses 12 and 14.

The verification report shall contain photographic evidence of the tested assembled boards where possible.

The verification report shall contain the manufacturing soldering log according to clause 13.2.4.

The verification report shall contain the list of all NCRs referring to assembly and test of verification boards and associated reports.

* + 1. Special remarks

None.