

National Aeronautics and Space Administration
George C. Marshall Space Flight Center
Marshall Space Flight Center, AL 35812



August 28, 2013

Reply to Attn of:

ED01

TO: DA01/Director
THRU: IS20/MSFC Directives Manager

FROM: ED01/Engineering Directorate

SUBJECT: Cancellation of MWI 8050.1 "Verification and Validation of Hardware, Software, and Ground Support Equipment for MSFC Projects"

In accordance with MPR 1410.2, 2.1.5, ED01 requests approval for cancellation of MWI 8050.1, "Verification and Validation of Hardware, Software, and Ground Support Equipment for MSFC Projects."

MSFC's Systems Engineering Working Group (SEWG) review of MWI8050.1G, "Verification and Validation of Hardware, Software, and Ground Support Equipment for MSFC Projects," resulted in most requirements being incorporated into MPR7123.1, "MSFC Systems Engineering Process and Requirements," Revision B. One requirement was deleted, "Demonstration shall be used as the method on the product to satisfy such requirements as accessibility, replaceability, and human factors."

The following verification and validation method requirements in MWI8050.1G, Table 1, were changed from requirements to guidance. This guidance is published in MSFC-HDBK-3173, "Project Management and Systems Engineering Handbook," section 4.2.2.1.

- Validation of records shall be used as the method to satisfy incorporation of requirements for such items as commercial off-the-shelf products and products purchased to standards.
- Similarity shall only be used when each of the following criteria are met:
 1. Engineering evaluation reveals that design configurations between the item under assessment and the similar item would produce the same results if the verification/validation activity was performed on the item under assessment.
 2. The similar item was designed for and verified/validated to equal or higher environmental levels than those required for the item under assessment.
 3. The item under assessment was built by the same manufacture using the same manufacturing processes and the same quality control procedures as the similar item.
 4. Similarity assessment shall undergo an independent evaluation by a technically qualified person or group other than the person performing the assessment.

- Similarity shall not be used when either of the following conditions exists:
 1. The similar item used in the assessment was itself verified/validated using similarity as the method.
 2. Items whose criticality is 1 or 1R.

Therefore, MWI 8050.1 is no longer required:

Approved by:

A handwritten signature in black ink, appearing to read "Patrick E. Scheuermann", with a long horizontal line extending to the right.

Patrick E. Scheuermann
Director