Examination Procedure

Rubrik / Title
Verification of software specification

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1   Scope

This Examination Procedure is applied to documentation for application software for programmable electronics.

This corresponds to:

Verification of "Specification of software requirements" based on IEC 60880
Verification of "Software safety requirements specification" based on IEC 61508-3
Verification of "Architectural Design" based on ISO/IEC 90003:2004

2   Purpose

To ensure that the documentation for the production of the application software meets the requirements set out in the system specification.

3   Definitions

System specification

The Manufacturers/Suppliers document covering the functions and performance of the system.

Software specification

Document setting out the function and performance requirements to be met by the application software.

4   Method

The documentation for the application programming consists of database and signal address lists, commands, parameter values, etc., which are specific for the relevant type of programmable equipment.

Verification is carried out by the V&V-team as a review against the requirements set out in the system specification. The recommended method is to "design backwards" starting from the documentation and to compare with systems and logic diagrams in the system specification.

5 Acceptance Criteria

Verification is carried out against the requirements set out in the system specification. Identified errors and unclear points are noted in the non-conformity report. They shall be corrected before work can begin on coding of application software or other subsequent steps in the development or design process. When the system specification has been approved it shall be locked and placed under configuration control and shall not be changed without the process being backed up to the stage when development of the software specification had still not been completed. It will therefore be necessary to carry out a re-verification and handling in accordance with the Manufacturers/Suppliers principles for documentation control.

6 Documentation

The verification shall be documented in a report from the review of the V&V-team.

The report shall at least contain the following information:

- Inspected item (system, program etc.)

Product, designation or other identification shall be stated, as well the Purchasers order number.

- Review procedure

The review procedure shall be described.
A checklist shall be attached or a reference to it shall be given.

- Result

The extent of conformity with the requirements shall be stated.

- Inspectors/reviewers

Date and signatures of the examination team.

- Open items, nonconformities

Open items and any non-conformities with respect to the system specification shall be stated.

- Approval

The document shall be examined and approved by the unit responsible for quality and in other respects in accordance with the internal QA/QC instructions of the Manufacturer/Supplier.