LOCKHEED MARTIN
Aeronautics Company

Quality Clause Q6R
Revision: 5
Released: 02 October 2024
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Quality Clause Q6R

Software Firmware & Non-Deliverable

The latest issue of this document is the version on the Lockheed Martin website:
https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/quality-requirements/clauses.html.

APPLICABILITY

This quality clause excludes Commercial Off-the-Shelf (COTS) Software, as defined by AS9115A.

NOTES

1. The terms "Software," "Firmware" and "Deliverable" are defined in AS9115A, and "Non-Deliverable" is defined in AS9125.

REFERENCE DOCUMENTS

1. SAE AS9115A, Quality Management Systems – Requirements for Aviation, Space & Defense Organizations - Deliverable Software (Supplement to 9100:2016)

2. SAE AS9125, Aerospace Series - Non-Deliverable Software Requirements

REQUIREMENTS

1. Software Quality Management System (SQMS)

A. Seller shall define, implement and maintain a Software Quality Management System (SQMS) acceptable to Buyer and documented as part of Seller's Quality Management System, regardless of whether or not the Software Quality Plan (SQP) is contractually defined as a Supplier Data Requirements List (SDRL).

   i. As part of its SQMS, seller shall establish and maintain processes for evaluation of each non-deliverable software item used, whether in the automated manufacturing of deliverable hardware or in the qualification or acceptance of deliverable software or hardware. Seller shall ensure these processes provide for the following:

      a. Required functions of the non-deliverable software are defined, in writing, and objective evidence exists prior to the intended use of such software, that such software performs the required functions.

      b. The non-deliverable software is placed under internal configuration control prior to its use, and such internal configuration control is maintained throughout its use.

2. Software Development Plan (SDP)

A. For Deliverable Software, the organization shall develop and maintain a software development plan in accordance with AS9115A. The plan must be acceptable to Buyer.

   i. Seller shall produce a software development and testing schedule commensurate with the complexity of the software development.

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    iii.   Equipment, tools and utilities for product and documentation archival and storage, replication, change management, configuration management, software loading and verification, transmittal, disaster recovery protection, and software quality;

    iv.

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