(R) Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations - Deliverable Software (Supplement to 9100:2016)

RATIONALE

This standard supersedes the initial release of 9115 published in April 2010. This standard has been revised to incorporate the new clause structure and content of ISO 9001:2015. In addition, industry requirements, definitions, and notes have been revised in response to ISO 9001:2015 and 9100:2016 revisions and stakeholder needs.

This is the second revision of 9115 which is an international supplement to 9100 providing clarification of the corresponding 9100 requirements, as necessary, for deliverable software. In some cases, where clarification is needed, it was necessary due to the complexity of software to decompose "shall" statements in 9100 into more granular requirements. Where no software clarification is required of the 9100 requirements, the following phrase is presented: "The requirements of 9100 apply. No clarification required for software."

NOTE: This document must be used in conjunction with 9100:2016; references throughout the text to 9100 are understood to mean 9100:2016.

FOREWORD

This document standardizes, to the greatest extent possible, the software quality management system requirements for the aviation, space, and defense industry. This was accomplished through the harmonization of quality management system requirements from international aviation, space, and defense software standards and other applicable documents and good practice. The establishment of common requirements for use at all levels of the supply-chain by organizations around the world should result in improved quality, schedule, and cost performance by the reduction or elimination of organization unique requirements and wider application of good practice.

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INTENDED APPLICATION

The requirements of 9100 apply with the following clarification for software.

Organizations whose products are deliverable software or contain deliverable software should use the supplemental 9115 standard when planning and evaluating the software design, development, release, procurement, and management activities of the organization. The 9115 standard provides guidance to the requirements of 9100 when it is desired to add "deliverable software" to the organization's 9100-registration certificate, and a greater depth of specificity and granularity to the requirements for assuring that the objectives of 9100 will be met for deliverable software.

NOTE: This document is independent of the life cycle models (e.g., waterfall, spiral, agile, evolutionary, incremental) or methodology (e.g., objected oriented design, unified modeling language).

INTRODUCTION

0.1   General

The requirements of 9100 apply. No clarification required for software.

0.2   Quality Management Principles

The requirements of 9100 apply. No clarification required for software.

0.3   Process Approach

The requirements of 9100 apply. No clarification required for software.

0.3.1   General

The requirements of 9100 apply. No clarification required for software.

0.3.2   Plan-Do-Check-Act Cycle

The requirements of 9100 apply. No clarification required for software.

0.3.3   Risk-Based Thinking

The requirements of 9100 apply. No clarification required for software.

0.4   Relationship with Other Management System Standards

The requirements of 9100 apply. No clarification required for software.