



AEROSPACE STANDARD	AS9017™	
	Issued Reaffirmed	2009-11 2017-03
Control of Aviation Critical Safety Items		

RATIONALE

AS9017 has been reaffirmed to comply with the SAE Five-Year Review policy.

FOREWORD

To assure customer satisfaction, aerospace industry organizations must produce and continually improve safe, reliable products that meet or exceed customer and applicable statutory and regulatory authority requirements. The globalization of the aerospace industry and the resulting diversity of regional/national requirements and expectations have complicated this objective. Organizations have the challenge of purchasing products from suppliers throughout the world and at all levels of the supply chain. Suppliers have the challenge of delivering products to multiple customers having varying quality requirements and expectations.

Industry has established the International Aerospace Quality Group (IAQG), with representatives from companies in the Americas, Asia/Pacific, and Europe, to implement initiatives that make significant improvements in quality and reductions in cost throughout the value stream. This standard has been prepared by the Americas Aerospace Quality Standards Committee (AAQSC).

This document standardizes, to the greatest extent possible, minimum requirements for the control of aviation Critical Safety Items (CSIs) throughout the supply chain. The establishment of common requirements, for use at all levels of the supply-chain, by organizations should result in improved quality and safety, and decreased costs, due to the elimination or reduction of organization-unique requirements and the resultant variation inherent in these multiple expectations.

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1. SCOPE

1.1 General

- 1.1.1 This document is intended to prescribe consistent requirements for CSI management for organizations and suppliers who perform work for prime contractors receiving direct contracts from U.S. government agencies (i.e., first-tier or prime suppliers).
- 1.1.2 The contractor, which receives the initial government contract, will receive their CSI requirements directly from the U.S. government agency and will be required per those contracts to maintain a CSI management system that ensures compliance to all requirements.
- 1.1.3 The flow down of this document shall be in addition to any specific contract clauses (e.g., Federal Acquisition Regulations, Defense Federal Acquisition Regulations) required by the government to be flowed by contract to sub-tier sources.

1.2 Application

- 1.2.1 This standard will be auditable with the expectation that the prime contractor will flow CSI requirements to the supply chain and periodically assess, audit, validate, and recognize compliance to AS9017 per their own processes.
- 1.2.2 All manufacturers of CSIs shall comply with the requirements of SAE AS9100 or a technically equivalent quality management system standard. Special process suppliers may meet this quality management system requirement through their Nadcap certification.
- 1.2.3 Any operation, process, or other action associated with the new manufacture/production of any CSI, shall only be performed by sources meeting the applicable requirements of this document.

2. NORMATIVE REFERENCES

This standard shall be used in conjunction with:

- | | |
|-------------------------|--|
| SAE AS9100 | "Quality Management Systems – Requirements for Aviation, Space and Defense Organizations", or a technically equivalent quality management standard. |
| U.S. Public Law 108-136 | "National Defense Authorization Act for Fiscal Year 2004"; Section 802, "Quality Control in Procurement of Aviation Critical Safety Items and Related Services". |

3. TERMS AND DEFINITIONS

3.1 Aviation Critical Safety Item (CSI)

A part, an assembly, installation equipment, launch equipment, recovery equipment, or support equipment for an aircraft or aviation weapon system that contains a characteristic which failure, malfunction, or absence of could cause a catastrophic or critical failure resulting in the loss of or serious damage to the aircraft or weapon system, an unacceptable risk of personal injury or loss of life, or an un-commanded engine shutdown that jeopardizes safety.

3.2 Critical Characteristic

Any feature throughout the life cycle of a critical item (e.g., dimension, tolerance, finish, material or assembly, manufacturing or inspection process, operation field maintenance, depot overhaul requirement) that if nonconforming, missing, or degraded may cause the failure or malfunction of the critical item.