



AEROSPACE RECOMMENDED PRACTICE	ARP9013™/3	REV. A
	Issued 2005-10 Cancelled 2018-06	
	Superseded by AS9138	
Statistical Product Acceptance Requirements Using Process Control Methods		

RATIONALE

This document is Cancelled and Superseded by AS9138. AS9138 is an upgrade and replacement for the Aerospace Recommended Practice (ARP) 9013-series of documents (i.e., ARP9013, ARP9013/1, ARP9013/2, ARP9013/3, ARP9013/4) prepared and published by the Americas Aerospace Quality Group (AAQG) in 2005. Technically equivalent standards are published in all International Aerospace Quality Group (IAQG) sectors (i.e., Americas, Asia-Pacific, Europe).

CANCELLATION NOTICE

This Technical Report has been declared "CANCELLED" as of June 2018 and has been superseded by AS9138. By this action, this document will remain listed in the respective index, if applicable. Cancelled Technical Reports are available from SAE.

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FOREWORD

To assure customer satisfaction, aerospace industry organizations shall produce, and continually improve, safe, reliable products that meet or exceed customer and regulatory authority requirements. The globalization of the aerospace industry, and the resulting diversity of regional/national requirements and expectations, has complicated this objective. End-product organizations face the challenge of assuring the quality of, and integrating, product purchased from suppliers throughout the world and at all levels within the supply chain. Aerospace suppliers and processors face the challenge of delivering product to multiple customers having varying quality expectations and requirements.

The aerospace industry established the International Aerospace Quality Group (IAQG) for the purpose of achieving significant improvements in quality and safety, and reductions in cost, throughout the value stream. This organization includes representation from aerospace companies in the Americas, Asia/Pacific, and Europe. This recommended practice has been prepared by the Americas Aerospace Quality Group (AAQG).

This document standardizes, to the greatest extent possible, the requirements on product acceptance using process control and monitoring techniques in the aerospace industry.

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1. SCOPE:

1.1 Purpose:

ARP9013/3 recommended practice specifies a product acceptance system using process control methods. Its purpose is to assure conformance for specified characteristics. Use of process control techniques for product acceptance requires maintaining process stability and capability. A stable and capable process is the best assurance of conforming hardware for the customer. There can be lower inspection costs associated with a process control acceptance approach.

1.2 Field of Application:

These methods can be used for product acceptance when the process is well understood and stability is monitored. The rules provided herein ensure protection for the customer in the event that a deterioration in process stability or capability occur; and an incentive to reduce inspection costs by means of process controls to consistently achieve good quality.

2. REFERENCES:

2.1 Applicable Documents:

The following publications form a part of this recommended practice to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

- 2.1.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

ARP9013	Statistical Product Acceptance Requirements
AS9100	Quality Systems - Aerospace - Model for Quality Assurance in Design, Development, Production, Installation and Servicing
AS9103	Variation Management of Key Characteristics

- 2.1.2 ANSI/ASQC Publications: Available from the American Society for Quality (ASQ), 600 North Plankinton Avenue, Milwaukee, WI 53203, Tel: 800-248-1946 or 414-272-8575, www.asq.org.

ANSI/ASQC B1	Guide for Quality Control Charts
ANSI/ASQC B2	Control Chart Method of Analyzing Data
ANSI/ASQC B3	Control Chart Method of Controlling Quality During Production