

1. Present Requirement: 2.1 Government documents, Page 10

MIL-STD-105 Sampling Procedures & Tables for Inspection Attributes  
MIL-STD-45662 Calibration System Requirements

Change Requirement: Delete MIL-STD-105 and MIL-STD-45662 references

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:  
456300C60-BS50.93 dated SEP 29 1995 and Ser: 456300C60-50.111 dated 1 October 1995.

2. Present Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications, Page 11

Not required

Change Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications, After the

“American Society for Testing Materials”, Page 11 add

AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI/ISO 10012-1 Quality Assurance Requirements for Measuring Equipment

AMERICAN SOCIETY FOR QUALITY CONTROL

ASQC Z1.4, SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

NATIONAL CONFERENCE OF STANDARDS LABORATORIES

NCSL Z540-1, -General Requirements for Calibration Laboratories and Measuring and Test Equipment

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:  
456300C60-BS50.93 dated SEP 29 1995, and Ser: 456300C60-50.111 dated 1 October 1995.

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3. Present Requirement: 2.4 Sources of documents, 2.4.2 Sources for non-government publications, Page 11  
Not required

Change Requirement: 2.4 Sources of documents, 2.4.2 Sources for non-government publications, Page 11

- c. American National Standards Institute, 11 West 42<sup>nd</sup> Street, New York, NY 10036  
d. American Society of Quality Control, PO Box 3005, 611 East Wisconsin Ave, Milwaukee, WI 53201-46004  
e. National Conference of Standards Laboratories, 1800 30<sup>th</sup> Street, 305B, Boulder, CO 80301-1032

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-BS50.93 dated SEP 29 1995, and Ser: 456300C60-50.111 dated 1 October 1995.

4. Present Requirement: Table II, Contact resistance limits, Page 16

TABLE II. Contact resistance limits.

Contact			Wire size	Test current (amperes)	Resistance (millivolts drop maximum)	
Part No.	Mating end size	Wire barrel size			Initial	After condition
M39029/1-507	20	22D	22	5.0	55	65
			28	1.5	40	45

Change Requirement: Table II, Contact resistance limits, Page 16

TABLE II. Contact resistance limits.

Contact			Wire size	Test current (amperes)	Resistance (millivolts drop maximum)	
Part No.	Mating end size	Wire barrel size			Initial	After condition
M39029/1-507	20	22D	22	5.0	55	65
			28	1.5	50	55

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-MRS/M29.09 dated 27 June 1995.

5. Present Requirement: Section 4. QUALITY ASSURANCE PROVISIONS, 4.1.2 Test equipment and inspection facilities, last sentence, Page 20

4.1.2 "Calibration of the standards which control the accuracy of inspection equipment shall comply with the requirements of MIL-STD-45662."

Change Requirement: Section 4. QUALITY ASSURANCE PROVISIONS, 4.1.2 Test equipment and inspection facilities, last sentence, Page 20

4.1.2 "Calibration of the standards which control the accuracy of inspection equipment shall comply with ANSI/NCSL Z540-1 or ISO 10012-1."

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-50.111 dated 1 October 1995.

6. Present Requirement: Table IV, Qualification tests, Page 22

TABLE IV. Qualification tests

Title	Requirement Paragraph	Test Paragraph	Test Groups			
			1	2	3	4
Vibration	3.5.8	4.6.8	X			X
Mechanical shock	3.5.9	4.6.9	X			X

Change Requirement: Table IV, Qualification tests, Page 22

TABLE IV - Qualification tests

Title	Requirement Paragraph	Test Paragraph	Test Groups			
			1	2	3	4
Sine vibration	3.5.8	4.6.8	X			X
Random vibration	3.5.8	4.6.8		X		X
Mechanical shock	3.5.9	4.6.9	X	X		X

Note 1: For Group 4 half the sample shall be subjected to the Sine and half the samples to the Random Vibration.

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 10380, 916 dated June 30, 1989

7. Present Requirement: 4.5 Quality conformance inspection, 4.5.1.3.1 Sampling plan, Page 27

"4.5.1.3.1 Sampling plan: Statistical sampling and inspection shall be in accordance with MILSTD-105 for general inspection Level II. The acceptable quality level (AQL) shall be 1.0 for major and 4.0 for minor defects."

Change Requirement: 4.5 Quality conformance inspection, 4.5.1.3.1 Sampling plan, Page 27

"4.5.1.3.1 Sampling plan: Statistical sampling and inspection shall be in accordance with ANSI/ASQC Z1.4 for general inspection Level II. The acceptable quality level (AQL) shall be 1.0 for major and 4.0 for minor defects (see 6.8)."

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-BS50.93 dated SEP 29 1995

8. Present Requirement: 4.5 Quality conformance inspection, 4.5.1.4.1 Sampling plan, Page 28

"4.5.1.4.1 Sampling plan: The sampling plan shall be in accordance with MIL-STD-105, inspection level S-3 and the AQL shall be 4.0."

Change Requirement: 4.5 Quality conformance inspection, 4.5.1.4.1 Sampling plan, Page 28

"4.5.1.4.1 Sampling plan: The sampling plan shall be in accordance with ANSI/ASQC Z1.4, inspection level S-3 and the AQL shall be 4.0 (see 6.8)."

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-BS50.93 dated SEP 29 1995

9. Present Requirement: 6.8 Definitions, Page 48

Not required

Change Requirement: 6.8 Definitions, Page 48

"6.8.16 Critical Defect: A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the product, or a defect that judgment and experience indicate is likely to prevent performance of the tactical function of a major end item such as a ship, aircraft, tank, missile, or space vehicle.

6.8.17 Defect: A defect is any nonconformance of the unit of product with specified requirements.

10. Present Requirement: 6.3 Qualification, Page 52

"With respect to products requiring qualification, awards will be made only for products which are at the time set for opening of bids, qualified for inclusion in applicable qualified products list (QPL) whether or not such products have actually been so listed by that date. The attention of the manufacturers is called to this requirement, and they are urged to arrange to have products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered by this specification. Information pertaining to the qualification of products may be obtained from the Naval Air Warfare Center Aircraft Division Patuxent River, Code 4.4.4, Building 1461, 48256 Shaw Road, Unit 4, Patuxent River, MD 20670."

Change Requirement: 6.3 Qualification, Page 52

"With respect to products requiring qualification by the government, awards will be made only for products, which are at the time set for opening of bids, qualified for inclusion in the applicable Qualified Products List (QPL), whether such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers (suppliers) are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts for the products delineated in this specification. Qualification is required for U.S. Government procurement. The qualifying activity, for U.S. Department of Defense procurement purposes, is the Naval Air Systems Command (Code 4.4.5.3), 22229 Elmer Road, Bldg. 2360, Room 107, Patuxent River, MD 20670. Application for qualification tests shall be made in accordance with provisions governing qualification in SD-6. Unless otherwise specified by contract, commercial procurement of these products shall meet these requirements."

Rationale for Change: The qualifying activity has requested the paragraph to be changed to establish the correct address and qualification submittal requirements which may be impacting timely procurement of SAE designated components.

**Amendment A1: June 2004****1. Present Requirement:** 2.1 Government documents, Page 10

MIL-STD-105 Sampling Procedures & Tables for Inspection Attributes  
MIL-STD-45662 Calibration System Requirements

**Change Requirement:** Delete MIL-STD-105 and MIL-STD-45662 references

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d. American Society of Quality Control, PO Box 3005, 611 East Wisconsin Ave, Milwaukee, WI 53201-46004

e. National Conference of Standards Laboratories, 1800 30<sup>th</sup> Street, 305B, Boulder, CO 80301-1032

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**5. Present Requirement:** Section 4. QUALITY ASSURANCE PROVISIONS, 4.1.2 Test equipment and inspection facilities, last sentence, Page 20

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**Rationale for Change:** Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-50.111 dated 1 October 1995.