

NOTICE OF CHANGE
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METRIC
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MIL-HDBK-454  
NOTICE 1  
28 May 1997

DEPARTMENT OF DEFENSE  
HANDBOOK

GENERAL GUIDELINES FOR ELECTRONIC EQUIPMENT

TO ALL HOLDERS OF MIL-HDBK-454:

1. THE FOLLOWING PAGES OF MIL-HDBK-454, DATED 28 APRIL 1995, HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
iii	28 MAY 1997	iii	28 APRIL 1995
iv	unchanged		
5-1	28 MAY 1997	5-1	28 APRIL 1995
29-1	28 MAY 1997	29-1	28 APRIL 1995
64-1	28 MAY 1997	64-1	28 APRIL 1995
Blank	28 MAY 1997	64-2 thru -4	28 APRIL 1995

2. THE FOLLOWING ARE PEN AND INK CHANGES WITHIN THE HANDBOOK:

- a. Page 1. Paragraph 1.3. Delete and replace with the following: "1.3 Method of reference. This handbook is for guidance only. This document cannot be cited as a requirement. If it is, the contractor does not have to comply. If referenced for guidance purposes in individual specifications, specify by referencing MIL-HDBK-454 and the guideline number and clearly identify that it is for guidance only and does not have to be complied with."
- b. Page 1. Paragraphs 2., 2.1, 2.1.1 and 2.1.2. Delete and replace with:

2. Applicable documents.

2.1 General. The documents listed in the individual guidelines are those referenced within that guideline.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks The specifications, standards, and handbooks listed in section 2 of each individual guideline forms a part of this handbook to the extent specified in the guideline. Unless otherwise specified, the issues of these documents are those listed in the latest issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto."

- c. Page 30-1. Paragraph 4.1. delete in its entirety.

3. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

AMSC N/A

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DISTRIBUTION STATEMENT A. Approved for Public release; distribution is unlimited.

MIL-HDBK-454

4. Holders of MIL-HDBK-454 will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the handbook is completely revised or canceled.

Custodians:

Army-CR

Navy-AS

Air Force-11

Preparing Activity:

DLA-CC

(Project number GDRQ-0127)

Review Activity:

Army-AR, AV, ME, MI, TE

Navy-EC, OS, SH

Air Force- 17, 19, 85

**METRIC**

**MIL-HDK-454**

**28 APRIL 1995**

**SUPERSEDING**

**MIL-STD-454N**

**30 JUNE 1992**

# MILITARY HANDBOOK

GENERAL GUIDELINES FOR ELECTRONIC EQUIPMENT



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DEPARTMENT OF DEFENSE

Washington DC 20360

# **General Guidelines for Electronic Equipment**

MIL-HDBK-454

1. This Military Handbook is approved for use by all Departments and Agencies of the Department of Defense
2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to Defense Supply Center, Columbus, ATTN: DSCC-VS, 3990 E. Broad Street, Columbus, OH 43216, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

## FOREWORD

1. This handbook is the technical baseline for the design and construction of electronic equipment for the Department of Defense. It captures in one document, under suitable subject heading, fundamental design guidelines for multiple general electronic specifications. The opportunity to focus on a single document, afforded to contractors, results in substantial savings to the Government. This handbook was prepared by and is regularly updated through the cooperative efforts of Government and industry. The following Government documents are intimately associated with this handbook.

MIL-STD-2036	General Requirements for Electronic Equipment Specifications.
MIL-E-8189	Electronic Equipment, Missiles, Boosters and Allied Vehicles, General Specification for ( Not for New Design).
DOD-E-8983	Electronic Equipment, Aerospace, Extended Space Environment, General Specification for.
MIL-P-11268	Parts, Materials, and Processes Used in Electronic Equipment.
MIL-HDBK-11991	Design of Electrical, Electronic, and Electro-mechanical Equipment, Guided Missile and Associated Weapon Systems.
MIL-F-18870	Fire Control Equipment, Naval Shipboard, General Specification for.
MIL-PRF-28800	Test Equipment for Use with Electrical and Electronic Equipment, General Specification for.

2. This handbook is for guidance only. This handbook cannot be cited as a requirement. If it is, the contractor does not have to comply.

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GUIDELINE 5

SOLDERING

1. Purpose. There are no longer DoD guidelines in soldering of electrical and electronic equipment. There are guidelines for non-electrical soldering.
2. Documents applicable to guideline 5:

MIL-STD-1866 Soldering Process, General (Non-Electrical) (Metric)[Military Standard]

3. Definitions. Not applicable.
4. Guidelines.
  - 4.1 General. The guidelines of DOD-STD-1866 should be considered for non-electrical soldering of structures.
  - 4.2 Workmanship. Workmanship of soldered non-electrical assemblies may be checked in accordance with DOD-STD-1866 as appropriate.

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GUIDELINE 29

ELECTRON TUBES

1. Purpose. This guideline establishes that there are no longer any guidelines for electron tubes.

29-1  
MIL-HDBK-454

GUIDELINE 64

1. Purpose. This guideline establishes criteria for the selection and application of microelectronic devices. These criteria are based on the objectives of achieving technological superiority, quality, reliability, and maintainability in military systems.
2. Documents applicable to guideline 64:  

MIL-HDBK-179                      Microcircuit Application Handbook.
3. Definitions. Not Applicable.
4. Guidelines. The guidelines for use of microcircuits are provided in MIL-HDBK-179.