

NOT MEASUREMENT SENSITIVE
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NOTICE OF CHANGE
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MIL-STD-1476B  
NOTICE 1  
23 August 1991

# MILITARY STANDARD

## METRIC SYSTEM APPLICATION IN NEW DESIGN

TO ALL HOLDERS OF MIL-STD-1476B:

1. THE FOLLOWING PAGES OF MIL-STD-1476B HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
2	10 May 1991	2	23 August 1991
3	10 May 1991	3	23 August 1991
6	10 May 1991	6	23 August 1991

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

3. Holders of MIL-STD-1476B 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 page(s), is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

### Custodians:

Army - MI  
Navy - SH  
Air Force - 01

### Preparing Activity:

Army - MI

(Project No. MISC-0142)

### Review activities:

Army - AV  
Air Force - 70, 71, 80, 82, 84, 99  
DLA - GS

### User activities:

Navy - YD  
Air Force - 90

AMSC N/A

AREA MISC

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

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2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

STANDARDS

FEDERAL

FED-STD-376 - Preferred Metric Units for General Use by the Federal Government

MILITARY

MIL-STD-970 - Standards and Specifications, Order of Preference for the Selection of

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094).

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM E 380 - Standard for Metric Practice

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (IEEE)

IEEE 268 - Standard Metric Practice

(Application for copies should be addressed to the Institute of Electrical and Electronics Engineers, Inc., 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331.)

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(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents may also be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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5. DETAILED REQUIREMENTS

5.1 Metric units. Metric units, practices, and usages shall be in accordance with ASTM E 380 and IEEE 268.

5.1.1 Preferred units. Unless otherwise specified, the preferred metric units for the commonly-used quantities shall be in accordance with FED-STD-376.

5.2 New design. New items designed under contract shall be of metric design. Hybrid design, however, is acceptable where required to accommodate existing customary items selected in accordance with 5.3. Where applicable U.S. Government, non-Government (adopted for use by DoD), U.S. National or international documents exist which establish preferred metric modular sizes or other design standards, they shall be used to the maximum practical extent. Where a U.S. standard is established with greater definition or restriction than a prevailing international standard, the U.S. standard shall apply.

5.3 Existing items. Existing items shall be selected for use in accordance with the following guidelines, giving due consideration to interchangeability.

5.3.1 Material sizes. Metric sizes (e.g., sheet, plate, bar, rod, wire, etc.) shall be used when no cost or performance penalty will be incurred, or when additional first cost is justified by other considerations.

5.3.2 Components. Components shall be selected as follows:

a. Items designated as metric items in documents identified in Groups I, II, and III of MIL-STD-970.

b. All other items on the basis of lowest life cycle cost, whether metric or inch-pound.

5.3.3 Instrumentation. Unless otherwise specified or required by international agreement, instrumentation and gaging (temperature, pressure, etc.) shall show the indications in metric units. The actual construction of the instrument or gage may be either metric or inch-pound in accordance with 5.3.2.

5.4 Modification of existing inch-pound designs. Unless otherwise specified, the extent to which metric design is required in the modification of existing inch-pound designs shall be determined on an individual case basis, considering technical and economical feasibility or other factors.

Supersedes page 6, dated 10 May 1991.