

DEPARTMENT OF THE ARMY SUPPLY BULLETIN

Storage Serviceability Standard for USAECOM Materiel

POWER SUPPLIES (FSC 6130)

Headquarters, Department of the Army, Washington, D. C.

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SECTION I.

INTRODUCTION

1. Purpose. This bulletin provides a storage serviceability standard which establishes uniform criteria for determining the acceptability of the items designated herein for continued storage and/or issue, on the condition that all specifications and requirements applicable to the items have previously been met at the time of receipt from new procurement, or after repair, overhaul, or rebuild by a CONUS

depot maintenance shop.

2. Scope. This bulletin applies to all activities engaged in the receipt storage, and issue of USAECOM Power Supplies (FSC 6130) listed in appendix B with the applicable Federal stock numbers.

3. General. It is the Army's objective to

attain and maintain a constant materiel readiness status for materiel in depot stocks. The scope of such an objective is of such magnitude that only general guidelines are provided by chapter 3, section VIII of TM 743-200-1 for the quality evaluation of materiel in the custody of supply and storage activities. This standard supplements TM 743-200-1 by providing a systematic procedure for storage cyclic inspection of the power supplies specified in paragraph 2 and indicates the limiting degree of deterioration damage, unsatisfactory storage practices, and other characteristics which are acceptable. It also establishes the basis for identifying materiel requiring segregation, remedial care and preservation, or reclassification action. Applicable requirements of the standard may be used for performing receipt and preshipment quality control inspections.

4. Definitions. a. Definitions for the majority of specialized terms used can be found in MIL-STD-109B.

b. Definitions for other specialized terms

are as follows:

(1) *Storage serviceability standard.* A written procedure providing storage methods and standards and prescribing the necessary requirements for the surveillance of materiel in storage.

(2) *Storage quality level (SQL).* That quality level applicable to storage sampling inspection expressed in terms of percent defective or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

5. Reporting of Supply Bulletin Improvements. Reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-ME-NMP-Em, Fort Monmouth, N. J. 07703.

SECTION II.

STORAGE AND SPECIAL INSTRUCTIONS

6. Preservation Packaging, and Packing. Preservation, packaging, and packing will be in accordance with the requirements listed in appendix C. Items designated by 17-digit code shall be preserved and packaged in accordance with MIL-STD-726; packing shall conform to the requirements specified in MIL-P-55585 (EL). Items designated by military specifications shall be preserved packaged, and packed in accordance with the requirements in the cited specification. Items designated by an asterisk (*) shall be preserved, packaged and packed in accordance with the special instructions cited for the item.

7. Marking. Marking will be in accordance with MIL-STD-129D.

8. Storage. a. *Type.* Controlled humidity warehouse or heated warehouse.

b. *Age Control.* Power supplies will be issued on a first-in-first-out (FIFO) basis by date of manufacture or date of rebuild.

c. *Shelf Life.* Power supplies are subject to deterioration during storage and are required to be inspected and tested as specified in appendix D.

APPENDIX A

REFERENCES

MIL-P-13302	Power Supply PP-1499()/G.
MIL-P-14173	Power Supply PP-351()/U.
MIL-P-55200	Power Supply PP-2953()/U.
MIL-P-55229	Power Supply PP-1654()/G, Power Supply PP-1655()/G, and Power Supply PP-1656()/G.
MIL-R-55515	Radar Set AN/APN-158 Packaging and Packing of.
MIL-P-55585 (EL)	Packing and Marking Requirements for Southeast Asia and Stratcom and Preparation for Delivery Requirements of Electronics Equipment and Components.
MIL-STD-109B	Quality Assurance Terms and Definitions.
MIL-STD-129D	Marking for Shipment and Storage.
MIL-STD-726C	Packaging Requirements Code.
TM 743-200-1	Storage and Materials Handling.

APPENDIX B

FEDERAL STOCK NUMBERS AND TEST REQUIREMENTS

<i>Type</i>	<i>FSN</i>	<i>Publication</i>	<i>Test requirements</i>
PP-315/GGA-I	6130-233-3539	*REP 595	Perform all tests.
PP-351/U	6130-565-0706	*REP 1363	Perform all tests.
PP-712/GRC-26A	6130-548-1682	*REP 578	Perform all tests.
PP-824/G	6130-256-9944	TM 11-5130	Paragraph 29.
PP-888/MPQ-10A	6130-284-0235	TM 11-5840-320-50	Chapter 2, section XIII.
PP-990/G	6130-547-1030	*REP 1183	Perform all tests.
PP-1097B/G	6130-660-8847	TM 11-5111	Paragraphs 36, 37, and 38.
PP-1104/G	6130-635-4900	*REP 1390	Perform all tests.
PP-1104A/G	6130-542-6385	*REP 1390	Perform all tests.
PP-1329/FRN-20	6130-500-3006	TM 11-5825-205-35	Paragraphs 523, 524, and 525.
PP-1331/FRN-20	6130-500-4108	TM 11-5825-205-35	Paragraphs 526, 527, and 528.
PP-1499/G	6130-542-6425	*REP 1222	Perform all tests.
PP-1654/G	6130-985-8127	TM 11-6130-234-45	Chapter 4.
PP-1655/G	6130-985-8126	TM 11-6130-234-45	Chapter 4.
PP-1656/G	6130-985-8130	TM 11-6130-234-45	Chapter 4.
PP-2166/TPS-25	6130-577-8483	TM 11-5840-217-35	Paragraph 508.
PP-2953/U	6130-985-7899	TM 11-6130-233-35	Chapter 4.
PP-3938/G	6130-985-8138	TM 11-6130-240-15	Chapter 7.
PP-3939/G	6130-985-8137	TM 11-6130-241-15	Chapter 5.
PP-3940/G	6130-985-8136	TM 11-6130-247-15	Chapter 6.
PP-3941/G	6130-985-8143	TM 11-6130-242-15	Chapter 7.
PP-4515/G	6130-943-5680	TM 11-5895-386-35	Chapter 29.

APPENDIX B

FEDERAL STOCK NUMBERS AND TEST REQUIREMENTS – Continued

Type	FSN	Publication	Test requirements
RA-66	6130-230-7260	*REP 633	Perform all tests.
RA-70	6130-2307273	*REP 917	Perform all tests.

*These REP publications may be obtained from Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-ME-NMP-PS, Fort Monmouth, N.J. 07703.

APPENDIX C

PRESERVATION, PACKAGING, AND PACKING

Type	Requirements
PP-315/GGA-1	4Q-1-1-00-00-JJ-X-ED-0-00-A.
PP-351/U	MIL-P-14173.
P1-712/GRC-26*	
PP-824/G*	
PP-888/MPQ-10A	4Q-1-1-00-00-JJ-X-ED-0-00-A.
PP-990/G	10-1-1-00-00-JN-X-ED-0-00-A.
PIP-1079B/G*	
PP-1104/G	MIL-R-55515.
PP-1104A/G	MIL-R-55515.
PP-1329/FRN-20*	
PP-1331/FRN-20*	
PP-1499/G	MIL-P-13302.
PP-1654/G	MIL-P-55229.
PP-1655/G	MIL-P-55229.
PP-1656/G	MIL-P-55229.
PP-2166/TPS-25*	
PP-2953/U	MIL-P-55200.
PP-3938/G	3Q-1-1-00-00-JJ-X-ED-0-00-A.
PP-3939/G	3Q-1-1-00-00-JJ-X-ED-0-00-A.
PP-3940/G	3Q-1-1-00-00-JJ-X-ED-0-00-A.
PP-3941/G	3Q-1-1-00-00-JJ-X-ED-0-00-A.
PP-4515/G*	
RA-66	4Q-1-1-00-00-JJ-X-ED-0-00-A.
RA-70	4Q-1-1-00-00-JJ-X-ED-0-00-A.

*Use special packaging instructions (para 1, 2, and 3 above).

1. Preservation and Packaging. Preservation and packaging shall be Level A or C, as specified.

a. Level A.

(1) *Cleaning.* Cleaning shall be accomplished in accordance with process C-1 of MIL-P-116.

(2) *Drying.* Drying shall be accomplished in accordance with the applicable procedure of MIL-P-116.

(3) *preservation application.* None required.

(4) *Unit packaging.* Unit packaging shall be in accordance with the methods prescribed in MIL-P-116 and as specified in this appendix.

(a) *Technical literature.* Each technical literature shall be packaged method 1C-1.

(b) *Packaging development.* Each power supply shall be packaged individually in accordance with method 11b of MIL-P-116. Packaging shall be developed in accordance with method 11b, using kinds and types of materials which, when applied, will afford adequate protection against corrosion, deterioration and damage during worldwide shipment, handling, and storage; The outer container of a method 11b package shall conform to the requirements of PPP-B-636, type CF, class weather-resistant. Closure shall be in accordance with the appendix of the box specification.

b. *Level C.* Each power supply shall be preserved and packaged in a reamer that will afford adequate protection against corrosion deterioration and damage during shipment from the supply source to the first receiving activity.

2. Packing. Packing shall be Level A, B, or C as specified.

a. Level A.

(1) Each power supply package as spec-

ified in paragraph 1 shall be packed in close-fitting boxes conforming to PPP-B-621, class 2, or box cleated plywood PPP-B-601 overseas type. Place the technical literature, packaged as specified in paragraph 1a(4)(a), on top of the packaged unit directly under the lid of the container.

(2) Closure shall be in accordance with the applicable container specification or appendix thereto.

(3) Metal strapping, conforming to QQ-S-781, type 1, class B, shall be applied to wood and wood-cleated shipping containers in accordance with the requirements of the applicable box specification or appendix thereto. Fiberboard shipping containers shall be reinforced by pressure-sensitive filament tape banding, or nonmetallic strapping conforming to PPP-T-97, type IV, and PPP-S-760, type II, respectively; selection of the material and ap-

plication shall be in accordance with the appendix of the applicable box specification.

b. *Level B.* Each power supply packaged as specified in paragraph 1 shall be packed as specified in a above, except that the nailed wood box shall conform to PPP-B-621, class 1 or PPP-B-601 class domestic.

c. *Level C.* Each power supply shall be packed in shipping containers in a manner that will afford adequate protection against damage to the package and its contents during shipment from the supply source to the first receiving activity. Shipping containers shall comply with the rules and regulations of the common carrier as applicable to the mode of transportation

3. Inspection, Inspection of military packaging shall be in accordance with MIL-P-1 16.

APPENDIX D

STORAGE QUALITY ASSURANCE PROVISIONS

1. Index Number. The four-digit index number of this storage quality assurance provision (SQAP) (reserved for future use in automatic data processing) is to be assigned.

2. Federal Stock Number. Each item listed in appendix B, with its Federal stock number, is subject to the provisions of this SQAP.

3. Definitions. Special terms used in this SQAP are defined as follows:

a. *Acceptance Quality Level (AQL).* The nominal value expressed in terms of percent defective, or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

b. *Storage Quality Level (SQL).* That quality level applicable to storage sampling inspection expressed in terms of percent defective, or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

c. *Defect.* Any nonconformance of the unit of product with specified requirements.

d. *Defective Unit.* A unit of product which contains one or more defects.

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

f. *Major Defect.* A defect other than critical that could result in failure, or materially reduce the usability of the product for its intended purpose.

g. *Minor Defect.* A defect that does not materially reduce the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

h. *Mechanical-Visual Inspection.* An inspection by visual means to observe the item and /or its packaging and packing to detect deficiencies. Mechanical-visual inspection may require disassembly.

i. Technical Inspection. A complete functional inspection including disassembly, where required, and performance testing and /or laboratory testing.

4. Specifications, Technical Manuals, and other Documents. The following documents, of the latest issue in effect, contain inspection and testing information data, and instructions applicable to these quality assurance provisions:

<i>Publication</i>	<i>Title</i>	<i>Publication</i>	<i>Title</i>
DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.	*REP 595	Power Supply PP-712/GRC-26A. Specific Standard for Power supply PP-315/GGA-1; Power Supply Teletype Model REC 30.
DA Pam 310-7	U. S. Army Equipment Index of Modification Work Orders.	*REP 633	Specific Standard for Rectifier RA-66.
AR 725-50	Requisitioning, Receipt, and Issue System.	*REP 917	Specific Standard for Rectifier RA-70.
MIL-P-116E	Preservation, Methods.	*REP 1183	Specific Standard for Power Supplies PP-966/FRC-31, PP-990/G.
MIL-P-11268F	Parts, Materials and Processes Used in Electronic Communication Equipment.	*REP 1222	Specific Standard for Power Supply PP-1499/G.
MIL-M-13231A	Marking of Electronic Items.	*REP 1363	Specific Standard for Power supply PP-351/u.
M1L-STD-105D	Sampling Procedures and Tables for Inspection by Attributes.	*REP 1390	Specific Standard for Power Supply PP-1104/G.
M1L-STD-109B	Quality Assurance Terms and Definitions.	TM 11-5111	Power Supplies PP-1097A/G and PP-1097B/G.
MIL-STD-129D	Marking for Shipment and Storage.	TM 11-5130	Power Supply PP-824/G.
MIL-STD-130	Identification Marking of U. S. Military Property.	TM 11-5825-205-35	Field and Depot Maintenance: Radio Transmitting Set AN/FRN-22A.
MIL-STD-252	Wired Equipment, Classification of Visual and Mechanical Defects.	TM 11-5840-217-35	DS, GS, and Depot Maintenance Manual: Navigation Sets, Radar AN/APN-129(V)1 and AN/APN-129A(V)1 Including Repair Parts and Special Tool Lists.
MIL-STD-726	Packaging Requirements Code.	TM 11-5840-320-50	Depot Maintenance Manual: Radar Sets AN/MPQ-10 and AN/MPQ-10A.
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment.	(C) TM 11-5895-386-35	DS, GS, and Depot Maintenance Manual: Surveillance Information Center AN/TAQ-1A (Ground Component of Surveillance System, Infrared AN/UAS-4A) (U).
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment.	TM 11-6130-233-35	DS, GS, and Depot Maintenance Manual Including Repair Parts List: Power Supply PP-2953/U.
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment.	TM 11-6130-234-45	GS and Depot Maintenance Manual: Power Supplies PP-1654/G, PP-1655/G, and PP-1656/G.
TB SIG 355-4	Depot Inspection Standard for Balancing Rotating Parts and Assemblies.	TM 11-6130-240-15	Organizational, DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists: Power Supply PP-3941/G.
TB 750-236	Calibration Requirements for the Maintenance of Army Material.	TM 11-6130-241-15	Organizational, DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists: Power Supply PP-3939/G.
*REP 578	Specific Standard for Radio Sets AN/GRC-26, AN/MRC-2; Rectifier Power Unit PP-193/TRA-7;		

<i>Publication</i>	<i>Title</i>
TM 11-6130-24215	Organizational, DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists: Power Supply PP-3941/G.
TM 11-6130-247-15	Organizational, DS, GS, and Depot Maintenance Manual (Including Repair Parts and Special Tool Lists): Power Supply PP-3940/G.
TM 38-750	Army Equipment Record Procedures.

*These REP publications may be obtained from Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-ME-NMP-PS, Fort Monmouth, N.J. 07703.

5. Other Directives.

<i>Publication</i>	<i>Title</i>
AR 795-17	General Policies and Principles for Furnishing Army Materiel on a Grant Aid Basis.
AR 795-204	General Policies and Principles for Furnishing Defense Articles and Services on a Sale or Loan Basis.

6. Inspection Criteria. a. *Lot Criteria.*

(1) *Lot definition.* A lot is defined as a group of like items from which a sample is to be drawn and inspected to determine conformance with the acceptability criteria. The following are examples:

(a) A group of like items in storage which were received in a shipment with the following identical markings:

1. Purchase order number.
2. Date packaged or packed.
3. Depot certification stamp and date.

(b) A group of like items repaired or rebuilt by the Maintenance Division in one production run

(2) *Lot information.* The items shall be assembled into identifiable lots. Each lot shall, as far as practicable, consist of units of product of a single type, grade, class, size, and composition manufactured, repaired, or rebuilt at the same time and stored under the same conditions.

(3) *Lot size.* The lot size is the total number of individual like items in the lot that is to be inspected.

b. *Sampling Procedure.*

(1) *Sample selection.* Select samples of materiel in a way which will assure that each unit in the lot has an equal chance of being selected. Biased methods, such as selecting items from the same position in a container, pallets, or stacks; taking items all from one location; or selecting items that appear defective, will not be used.

(2) *Sample size.* Use table 1 of MIL-STD-105D, General Inspection Level II, to obtain the sample size code letter, and table 2-A of MIL-STD-105D to obtain the sample size using the storage quality levels shown in (3) below.

(3) *Storage quality levels (SQL).*

(a) Mechanical -visual inspection: Critical SQL 1.0 percent; major SQL 2.5 percent minor SQL 10 percent.

(b) Electrical: Critical SQL 1.0 percent; major SQL 2.5 percent.

(c) Preservation packaging, packing, and marking: Major SQL 4.0 percent; minor SQL 10 percent.

(d) The acceptance or reject number for the above SQL's shall be the same as those shown for comparable acceptance quality levels (AQL's) in table 2-A of MIL-STD-105D.

c. *Inspection Requirements.* The following mechanical -visual inspections shall be performed:

(1) Inspect case for physical damage, condition, and finish.

(2) Inspect all controls and switches for proper operation and loose or missing hardware.

(3) Inspect all connectors, plugs, and cord receptacles for condition and damage.

(4) Inspect assembly for physical damage, condition, missing parts, foreign objects, and finish.

(5) Inspect cabling and wiring for potential short circuits, cuts, breaks, fraying, deterioration, kinks, and strain.

(6) Inspect solder connections for missing solder, cold solder, insufficient solder, excessive solder, and improper wrap.

(7) Inspect for corrosion dirt, moisture, and fungus.

(8) Inspector corrosion, dirt, moisture, and fungus.

(9) inspect all parts and hardware for damage and condition.

d. Test Requirements. Perform those tests that are specified for each power supply listed in appendix B.

e. Defect Classification.

(1) *Mechanical -visual.*

(a) *Critical.* Refer to the definition of a critical defect.

(b) *Major.*

1. Damage due to handling or storage (crushed, deformed, or broken).

2. Soldering defects as listed in MIL-STD-252A.

3. Solderless connectors: defects as listed in MIL-STD-252A.

4. Cabling and wiring: defects as listed in MIL-STD-252A.

5. Hardware: defects as listed in MIL-STD-252A.

6. Foreign objects: defects as listed in MIL-STD-252A.

7. Potential short circuits: defects as listed in MIL-STD-252A.

8. Finish: defects as listed in MIL-STD-252A.

9. Marking: defects as listed in MIL-STD-252A.

10. Parts: defects as listed in MIL-STD-252A.

11. Contacts defects as listed in MIL-STD-252A.

12. Plating, painting, or MFP missing.

13. Dimensional: a dimensional defect which directly affects interchangeability, assembly or operation.

(c) *Minor.*

1. Soldering defects as listed in MIL-STD-252A.

2. Solderless connectors: defects as listed in MIL-STD-252A.

3. Cabling and wiring: defects as listed in MIL-STD-252A.

4. Hardware: defects as listed in MIL-STD-252A.

5. Finish: defects as listed in MIL-STD-252A.

6. Marking: defects as listed in MIL-STD-252A.

7. Parts: defects as listed in MIL-STD-252A.

8. Contacts: defects as listed in MIL-STD-252A.

(2) *Electrical.*

(a) *Critical.* Refer to the definition of a critical defect.

(b) *Major.* Any electrical defect, other than critical, that does not meet the requirements specified for each item shall be considered a major defect.

(c) *Minor.* None. All electrical defects shall be considered critical or major, as applicable.

(3) *Packaging and marking, major.*

(a) Use of improper or defective material.

(b) Quantity in unit package not as specified.

(c) Incorrect packaging method applied.

(d) Cushioning or padding omitted.

(e) Cushioning or padding inadequate for the protection of the barrier material from projections, sharp edges, or other similar features of the item.

(f) Cushioning inadequate for the physical and mechanical protection of the item.

(g) Unsealed, punctured, or improperly sealed barrier bag, wrap, or envelope.

(h) Stock number omitted, incorrect or illegible.

(i) Nomenclature omitted, incorrect or illegible.

(j) Marking of quantity of items in package omitted, incorrect, or illegible.

(k) Different stock numbered items in the same unit package.

(4) *Packaging and marking, minor.*

(a) Item not properly blocked or braced within the unit package to prevent movement.

(b) Packaging material damaged.

(c) Conforming or cushioning wraps are not snug fitting and contain voids.

(d) Air not expelled from barrier prior to sealing.

(e) Any item of marking information other than (3)(h), (i), and (j) above listed under major defects omitted, incorrect or illegible.

(5) *Packing and marking, major.*

(a) Use of improper or defective material.

(b) Quantity in pack not as specified.

(c) Gross weight in excess of specified amount.

(d) Box closure not as specified.

(e) Type, grade, class, and style of the shipping container not as specified.

(f) Strapping omitted (when required).

(g) Strapping inadequate or incorrectly applied (when required).

(h) Items not adequately blocked, braced, or cushioned within the shipping container to prevent movement or damage.

(i) Shipping documents or packing list omitted.

(j) Stock number omitted, incorrect, or illegible.

(k) Nomenclature omitted, incorrect or illegible.

(l) Marking of quantities of items in pack omitted, incorrect, or illegible.

(m) Destination marking omitted, incorrect, or illegible.

(n) Special marking or labeling (when required) omitted, incorrect, or illegible.

(o) Overseas code marking (when required) omitted, incorrect, or illegible.

(6) *Packing and marking, minor.*

(a) Unsealed carton.

(b) Defective taping or sealing of carton.

(c) Any other box defect which may be considered minor by definition of MIL-STD-105.

(d) Any item of required marking information other than (5)(j) through (o) above listed under major defects omitted, incorrect or illegible.

f. *Calibration of Measuring and Test Equipment.* All measuring and test equipment shall

have been calibrated and certified within its prescribed period, in accordance with TB 750-236 before use. Certification shall be affixed in such a way as to preclude any altering or tampering.

g. *Storage Inspection Records.* Results of inspections and tests shall be recorded on data sheets and a copy attached to each unit.

7. *Inspection Frequency.* a. Controlled humidity warehouse: 60 months.

b. Heated warehouse: 36 months.

c. Unheated warehouse: 18 months.

8. *Type of Storage.* Controlled humidity warehouse or heated warehouse.

9. *Other Instructions.* a. *Rejected Lots.* Each rejected lot shall be tagged and reclassified into the proper condition code in accordance with AR 725-50. For other than new material, all defective units in a lot shall be repaired, or disposition requested in accordance with AMC and depot procedures.

b. *Repackaging of Samples Inspected.* Restore the packaging of the samples inspected and accepted to the level of the lot from which the samples were drawn.

10. *Special Requirements.* If the subject items are allocated for Foreign Military Sales, Grant Aid or Loan, the following additional requirements must be met:

a. *Policies and Special Conditions.*

Publication	Title
AR 79517	General Policies and Principles for Furnishing Army Materiel on a Grant Aid Basis.

AR 795-204	General Policies and Principles for Furnishing Defense Articles and Services on a Sale or Loan Basis.
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DD Form 1513 Offer and Acceptance.

Note. Special terms, conditions, and agreements with the customer country and shown on the DD Form 1513 must be complied with as well as any special instructions from the responsible commodity command.

b. *Basic Issue List Items (BILI).* BILI deck, normally furnished to the depots by USAECOM BILI Office, Lexington Blue Grass Army Depot, Lexington, Ky. office symbol AMSEL-ME-NMP-MR-L, shall be used.

c. *Level A Packaging and Packing.* Level A packaging and packing is mandatory for

Foreign Military Sales and Grant Aid shipments.

d. *Depot Documentation.* Depot documen-

tation of final acceptance shall be furnished the ECOM quality check team *before* ECOM inspection.

By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

W. C. WESTMORELAND,
General, United States Army,
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USCONARC (5)
ARADCOM (2)
OS Maj Cored (4)
USASTRATCOM (2)
LOGCOMD (2) except
 1st & 9th (5)
USAMI COM (3)
USAECOM (3)
USATECOM (3)
USANNJCOM (3)

USAMECOM (3)
USAWECOM (3)
Armies (2)
corps (2)
USAESC (40)
USARV (5)
Depots (2) except
 SAAD (50)
 LBAD (20)
 TOAD (20)
 LEAD (7)
 ANAD (10)
 ATAD (10)
Gen Deps (2)
Sig Sec Gen Deps (5)
Sig Deps (12)

NG: State AG (3)

USAR: None

For explanation of abbreviations used, see AR 310-50.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN...JOT DOWN THE
DOPE ABOUT IT ON THIS FORM.
CAREFULLY TEAR IT OUT, FOLD IT
AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE
NO.

PARA-
GRAPH

FIGURE
NO.

TABLE
NO.

IN THIS SPACE, TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

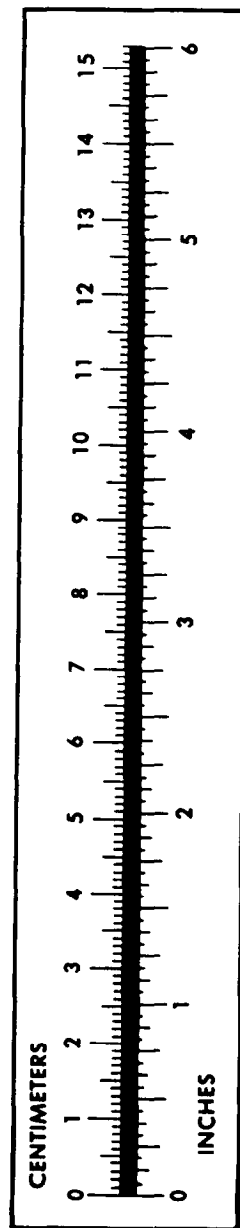
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



PIN: 011747-000