

## DEPARTMENT OF THE ARMY SUPPLY BULLETIN

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*Storage Serviceability Standard for USAECOM Material*

### CONVERTERS, TELEPHONE SIGNAL AND TELEGRAPH TELEPHONE SIGNAL

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Headquarters, Department of the Army, Washington, D. C.  
12 November 1969

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#### SECTION I. INTRODUCTION

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**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 Converters, Telephone Signal and Telegraph Telephone Signal listed in appendix B with the applicable Federal stock number(s).

**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 converters 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 material 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-109A.

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

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### **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.* Converters will be issued on a first-in-first-out (FIFO) basis by date of manufacture, or date of rebuild.

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

## APPENDIX A

### REFERENCES

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MIL-C-14468 Converter, Telephone  
Signal TA-187/U.  
MIL-C-55607 Converter, Telephone  
Signal CV-1548/G.

MIL-P-55585 (EL) Packing and Marking Requirements for Southeast Asia and Stratcom and Preparation for De-

	livery Requirements of Electronics Equipment and Components.	MIL-STD-726C	Packaging Requirements Code.
MIL-STD-109A	Quality Assurance Terms and Definitions.	MIL-T-10267	Terminal, Telegraph Telephone AN/TCC-14.
MIL-STD-129D	Marking for Shipment and Storage.	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>
CV-425/U	5805-985-9088	TM 11-5805-356-35	Chapter 9 (DOS)
CV-542/TRC-47	5805-563-1888	TM 11-212-35-C2	Para 65.14 and 65.15
CV-566/GT	5805-610-0939	TM 11-5805-203-15	Para 83
CV-870/GT	5805-600-0624	TM 11-5805-314-35	Para 56
CV-884/GT	5805-600-0622	TM 11-5805-314-35	Para 56
CV-1170/G	5805-444-9704	TM 11-5805-322-35-C2	Chapter 6 (DIS)
CV-1180/G	5805-889-3962	TM 11-5805-343-15-C2	Chapter 7 (DIS)
CV-1548/G	5805-069-8795	TM 11-5805-367-35/5	Chapter 6 (DOS)
TA-182/U	5805-263-3326	TM 11-5805-247-35	Chapter 5
TA-187/U	5805-581-9674	TM 11-5805-212-35	Chapter 3

## APPENDIX C

### PRESERVATION, PACKAGING, AND PACKING

<i>Type</i>	<i>Requirements</i>	<i>Type</i>	<i>Requirements</i>
CV-425/U*		CV-1170/GT	
CV-542/TRC-47	4Q -1- 1-00-00-JJ-X-ED-0-00-A	CV-1180/G*	
CV-566/GT*		CV-1548/G	MIL-C-55607
CV-870/GT*		TA-182/U	MIL-T-10267
CV-884/GT*		TA-187/U	MIL-C-14468

**1. Preservation and Packaging.** Preservation and packaging shall be level A.

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

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

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

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

(2) *Electron tubes.* All tubes not securely clamped in place shall be removed and packaged individually in accordance with MIL-E-75.

(3) *Running spares, accessories and, ancillary items.* Running spares, accessories, and ancillary items shall be packaged in accordance with MIL-E-17555.

(4) *Stowage within compartments.* When stowage space is provided in the equipment,

\*Special Packaging Instructions (paragraphs 1, 2, and 3).

the applicable items packaged as specified above will be stowed within the compartments provided. Overflow packages will be consolidated as specified in *d* below.

*d. Consolidated Package.* Consolidate the items packaged as specified above within a close fitting fiberboard box conforming to PPP-B-636, type CF, class weather-resistant. Fill all voids with paperboard conforming to PPP-P-291, type III, to prevent movement. Box closure shall be as specified in the appendix of the box specification.

*e. Packaging Development.* Packaging shall be developed in accordance with method IIb, 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 IIb 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.

## **2. Packing.** Packing shall be level A.

*a.* The converters packaged as specified in paragraph 1, shall be packed in containers selected from table 1, based on the most economical container required to provide minimum, adequate protection for the packaged items for this packing level of protection.

*b.* When the containers being placed directly into the shipping container are not waterproofed, waterproofing shall be effected by use of an individual wrap or a caseliner conforming to MIL-L-10547, grade B, and

appendix thereto, before packing. Dunnage not inclosed within the waterproof wrap or caseliner shall consist of materials treated to resist water. Wraps or caseliners may be omitted from fiberboard boxes if all seams, corners, and manufacturer's joints are waterproofed by sealing with tape, not less than 2 inches wide, conforming to PPP-T-76. The tape shall be centered over the seams and joints and extend over all corners and edges of the box a minimum of 2 inches onto the adjacent box panels. Tape shall be applied over the lengthwise seams of the outer flaps closing the openings of the box and over the manufacturer's joint before the tape is applied to the edge seams of the box. The tape applied to the manufacturer's joint shall fully cover only the joint and not extend over the corners of the box onto the adjacent panels.

*c.* Closure shall be in accordance with the applicable container specification or appendix thereto.

*d.* 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 application shall be in accordance with the appendix of the applicable box specification.

**3. Inspection.** Inspection of military packaging shall be in accordance with MIL-P-116.

Table 1. Container Requirements

Container	Specification	Level A	Level B	Max gross weight limitation (lb)
Boxes, Wood, Nailed and Lock-Corner Style 4.	PPP-B-621	Class 2	Class 1	200 <sup>1</sup>
Box, Cleated Plywood.	PPP-B-601	Overseas type	Domestic type	200 <sup>1</sup>
Boxes, Fiberboard, Corrugated, Triple Wall, Style E.	PPP-B-640	Class 2	Class 2	200 <sup>1</sup>
Box, Fiberboard, Type CF.	PPP-B-636	Class weather-resistant	Class weather-resistant	See footnote <sup>2</sup>
Box, Fiberboard; Corrugated Double Wall, Weather-Resistant.	MIL-B-43291	Type CF	Type CF	

<sup>1</sup>When the weight of a single item together with the shipping container exceeds 200 pounds, the maximum gross weight limitation of the container specification shall apply. Also, skids or pallet bases shall be applied in accordance with the requirements of the container specification or, if not specified in the specification, in a way which will adequately support the item and facilitate the use of material handling equipment.

<sup>2</sup>The maximum gross weight limitation for special requirements as cited in PPP-B-636 shall apply.

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

**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:

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.	TB 750-236	Calibration Requirements for the Maintenance of Army Materiel.
DA Pam 310-7	U.S. Army Equipment Index of Modification Work Orders.	TM 38-750	Army Equipment Record Procedures.
AR 725-50	Requisitioning, Receipt, and Issue System.	TM 11-212-35	Field and Depot Maintenance Manual: Radio Set AN/TRC-47.
MIL-P-116E	Preservation Methods of Parts, Materials and Processes Used in Electronic Communication Equipment.	TM 11-5805-203-15	Operator, Organizational, Field and Depot Maintenance Manual: Converter, Telephone Signal CV-566/GT.
MIL-P-11268F		TM 11-5805-212-35	Field and Depot Maintenance Manual: Converter, Telephone Signal TA-187/U.
MIL-M-13231A	Marking of Electronic Items.	TM 11-5805-247-35	DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists: Converter, Telegraph-Telephone Signal TA-182/U.
MIL-STD-105D	Sampling Procedures and Tables for Inspection by Attributes.	TM 11-5805-314-35	Field and Depot Maintenance Manual: Converters, Telephone Signal CV-870/GT and CV-884/GT.
MIL-STD-109A	Quality Assurance Terms and Definitions.	TM 11-5805-322-35	Field and Depot Maintenance Manual: Converter, Telephone-Telegraph Signal CV-1170/G.
MIL-STD-129D	Marking for Shipment and Storage.	TM 11-5805-343-15	Operator, Organizational, Field, and Depot Maintenance Manual: Converter, Telegraph-Telephone Signal CV-1180/G (Voice Plus Telegraph Terminal Stelma Model VPT-2).
MIL-STD-130C	Identification Marking of U.S. Military Property.	TM 11-5805-356-35	DS, GS, and Depot Maintenance Manual (Including Repair Parts and Special Tool Lists): Terminal Telegraph-Telephone AN/TCC-29 (Including Terminal, Telegraph TH-22/TG and Con-
MIL-STD-252A	Wired Equipment, Classification of Visual and Mechanical Defects.		
MIL-STD-726	Packaging Requirements Code.		
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment.		
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment.		
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment.		

verter, Telegraph-  
Telephone Signal  
CV-425/U).

TM 11-5805-  
367-35/5

DS, GS, and Depot  
Maintenance Manual:  
Converter, Telephone  
Signal CV-1548/G.

## 5. Other Directives.

AR 795-17            General Policies and  
Principles for Furnish-  
ing Army Materiel on  
a Grant Aid Basis.

AR 795-204        General Policies and  
Principles for Furnish-  
ing 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 formation.* 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 I of MIL-STD-105D, General Inspection Level II, to obtain the sample size code letter, and table II-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 II-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 illegible, incorrect, or missing markings.

(8) Inspect for 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 converter 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), (z'), 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) [terns 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.*

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.

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, Kentucky 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 documentation of final acceptance shall be furnished

the ECOM quality check team before ECOM inspection.

By Order of the Secretary of the Army:

W. C. WESTMORELAND,  
General, United States Army,  
Chief of Staff.

Official:

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

Distribution

Active Army:

CNGB (1)	USAMECOM (3)
OACSC-E (2)	USAWECOM (3)
USAARENBD (1)	Armies (2)
USACDCCEA (1)	Corps (2)
USACDCCEA (Ft Huachuca) (1)	USAESC (40)
USAMC (1)	USMACV (10)
USCONARC (5)	USARV (5)
ARADCOM (2)	Army Depots (2) except
OS Maj Comd (4)	SAAD (50)
USASTRATCOM (2)	LBAD (20)
LOGCOMD (2) except	TOAD (20)
1st LOGCOMD (5)	LEAD (7)
9th LOGCOMD (5)	ANAD ( 10)
USAMICOM (3)	ATAD ( 10)
USAECOM (3)	Gen Depots (2)
USATECOM (3)	Sig See, Gen Depots (5)
USAMUCOM (3)	Sig Depots ( 12)

NG: State AG (3).

USAR: None.

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

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