

Army Regulation 700–37

Logistics

Packaging of Army Materiel

**Headquarters
Department of the Army
Washington, DC
22 February 2013**

UNCLASSIFIED

SUMMARY

AR 700-37

Packaging of Army Materiel

This new Army regulation, dated 22 February 2013--

- o Establishes responsibilities for the Deputy Chief of Staff, G-4; the Commander, U.S. Army Materiel Command; Commanders of Army commands and/or Army service component commands; commanders of U.S. Army Materiel Command life cycle management commands and research, development, and engineering centers; program executive officers, program managers, managers of research, development, and engineering programs; other materiel developers; commanders of shipping and storage activities; Chief, U.S. Army Logistics Support Activity Packaging, Storage, and Containerization Center; and adjutants general, and Army National Guard (chap 1).
- o Establishes policy for the developing, prescribing, controlling, and evaluating of packaging requirements for life cycle support of weapon systems, components, and spares (chaps 2 and 4).
- o Provides guidance for the use of military, industrial, and consumer (retail) packaging in acquisition (chap 3).
- o Establishes requirement for materiel offered for storage and shipment to be adequately protected, consolidated for effective handling, safe for transport, and properly marked and identified per MIL-STD-129 (chaps 3 and 6).
- o Defines policy for Army asset protection and phytosanitary measures for wood packaging material programs (chaps 5 and 6).
- o Establishes the Army Packaging Policy Work Group (chap 7).
- o Defines the Army-unique packaging policies (throughout).
- o Provides policy and defines responsibilities for the packaging of Army-used, Army-owned, and Army-managed supplies and equipment (throughout).

Logistics

Packaging of Army Materiel

By Order of the Secretary of the Army:

RAYMOND T. ODIERNO
General, United States Army
Chief of Staff

Official:


JOYCE E. MORROW
Administrative Assistant to the
Secretary of the Army

History. This is a new Department of the Army regulation.

Summary. This regulation defines the policies and requirements of Army-unique packaging. It also supports DOD 4140.1–R, AR 700–15/NAVSUPINST 4030.28E/AFJMAN 24–206/MCO 4030.33E/DLAR 4145.7, AR 700–127 and DA Pam 700–142.

Applicability. This regulation applies to the Active Army, the Army National Guard/Army National Guard of the United

States, and the U.S. Army Reserve, unless otherwise stated.

Proponent and exception authority. The proponent of this regulation is the Deputy Chief of Staff, G–4. The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or field operating agency, in the grade of colonel or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity’s senior legal officer. The commander or senior leader of the requesting activity will endorsed all waiver requests and forwarded through their higher headquarters to the policy proponent. Refer to AR 25–30 for specific guidance.

Army internal control process. This regulation contains internal control provisions in accordance with AR 11–2 but does not contain evaluations for conducting internal control reviews.

Supplementation. Supplementation of this regulation and establishment of command and local forms are prohibited without prior approval from the Deputy Chief of Staff, G–4 (DALO–SUS), 500 Army Pentagon, Washington, DC 20310–0500.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the Deputy Chief of Staff, G–4 (DALO–SUS), 500 Army Pentagon, Washington, DC 20310–0500.

Distribution. Distribution of this publication is available in electronic media only and is intended for command levels C, D, and E for the Active Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve.

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Glossary

Section I General

1-1. Purpose

This regulation provides policy and defines responsibilities for the packaging of supplies and equipment within the Army. Detailed procedural guidance is contained in DA Pam 700-32. Packaging of stocked, stored, and shipped Army-used, Army-owned, and Army-managed materiel will conform to this publication, DODD 4140.1, AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7, and MIL-STD 2073-1, regardless of where performed. Materiel offered for storage and shipment will be adequately protected, be consolidated for effective handling, be safe for transport, and be properly marked and identified per MIL-STD-129.

1-2. References

Required and related publications and prescribed and referenced forms are listed in appendix A.

1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this regulation are explained in the glossary.

Section II Responsibilities

1-4. Responsibilities

- a. *The Deputy Chief of Staff, G-4.* The DCS, G-4 will—
 - (1) Provide oversight of the Army Packaging Program.
 - (2) Provide logistics policy guidance and program oversight and oversee the development of doctrine.
 - (3) Provide interagency coordination on packaging and packaging related issues.
 - (4) Appoint the Chair, Army Packaging Policy Work Group (APPWG) and in this capacity will—
 - (a) Approve annual meeting site and agenda.
 - (b) Direct Army command (ACOM), Army service component command (ASCC), and direct reporting unit (DRU) participation.
 - (c) Assign projects and suspenses.
 - (d) Approve work group recommendations.
 - (e) Initiate coordination with other Services and/or agencies, as applicable.
 - (f) Recognize the Army candidates selected to compete for the Department of Defense (DOD) packaging awards at the APPWG Meeting.
- b. *The Commander, U.S. Army Materiel Command.* The Commander, AMC will—
 - (1) Provide technical support to Headquarters, Department of the Army, ACOMs, ASCCs, and/or DRUs on packaging policy issues.
 - (2) Define data format and content of packaging technical data for contracted materiel acquisition programs for transfer into Army data repositories and for transfer into DOD data repositories (see AR 708-1 and DA Pam 708-2).
 - (3) Provide command representation to the APPWG.
 - (4) Ensure all Army installations appoint and maintain a primary installation packaging specialist and packers competent in packaging knowledge, skills, and abilities and have adequate packaging materials, tools, and equipment to perform all packaging operations in support of Army worldwide operations.
 - (5) Assess the current and future packaging training needs, identify and incorporate green procurement packaging requirements for training needs, and—
 - (a) Ensure that these requirements (quota allocations) are inputted into the Total Army Centralized Individual Training Solicitation (TACITS) and the Army Training Requirements and Resources System (ATRRS) through the quota source manager. The TACITS Survey is available only on the ATRRS Channels Web site (<https://www.atrrs.army.mil/LogonCenter/Logon.aspx>). The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.
 - (b) Budget for adequate time and funding for packaging and packaging related training.
- c. *The Commander, U.S. Army Installation Management Command.* The Commander, IMCOM will—
 - (1) Provide command representation to the APPWG and an alternate. Those representatives will—
 - (a) Serve as advisory staff for the Army on matters related to packaging.
 - (b) Provide agenda topics and discussion papers for meetings.
 - (c) Participate at APPWG meetings.

- (d) Provide a channel for the interchange of information on packaging problems and information.
 - (e) Coordinate with the Deputy Chair prior to local test evaluations on packaging or packaging related materials, equipment, or processes.
 - (f) Complete special studies and surveys and provide recommendations on all actions directed by the DCS, G-4.
 - (g) Possess a thorough knowledge of packaging regarding that individual's command.
 - (h) Inform the Deputy Chair of changes to command representative and/or alternates.
- (2) Assess the current and future packaging training needs, identify and incorporate green procurement packaging requirements for training needs, and—
- (a) Ensure that these requirements (quota allocations) are inputted into TACITS Survey and the ATRRS through the quota source manager. The TACITS Survey is available only on the ATRRS Channels Web site (<https://www.atrrs.army.mil/LogonCenter/Logon.aspx>). The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.
 - (b) Budget for adequate time and funding for packaging and packaging related training.
- d. The Commanders of Army commands, Army service components commands, and direct reporting units. The Commanders of ACOMs, ASCCs, and/or DRUs will—*
- (1) Provide command representation to the APPWG and an alternate. Those representatives will—
 - (a) Serve as advisory staff for the Army on matters related to packaging.
 - (b) Provide agenda topics and discussion papers for meetings.
 - (c) Participate at APPWG meetings.
 - (d) Provide a channel for the interchange of information on packaging problems and information.
 - (e) Coordinate with the Deputy Chair prior to local test evaluations on packaging or packaging related materials, equipment, or processes.
 - (f) Complete special studies and surveys and provide recommendations on all actions directed by the DCS, G-4.
 - (g) Possess a thorough knowledge of packaging regarding that individual's command.
 - (h) Inform the Deputy Chair of changes to command representative and/or alternates.
- (2) Assess the current and future packaging training needs, identify and incorporate green procurement packaging requirements for training needs, and—
- (a) Ensure that these requirements (quota allocations) are inputted into TACITS Survey and ATRRS through the quota source manager. The TACITS Survey is available only on the ATRRS Channels Web site (<https://www.atrrs.army.mil/LogonCenter/Logon.aspx>). The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.
 - (b) Budget for adequate time and funding for packaging and packaging related training.
- e. The Commanders, U.S. Army Materiel Command, Life Cycle Management Commands and Research, Development, and Engineering Centers (Army Packaging Design Activity). The Commanders, AMC, LCMCs and RDECs (Army Packaging Design Activity) will—*
- (1) Provide requirements for format and content of military packaging technical data to materiel acquisition programs as part of the data management strategy section of the acquisition strategy.
 - (2) Provide packaging functional support to the program manager (PM) through a memorandum of agreement, which will be used to detail the support to be provided (see AR 700-127).
 - (3) Provide packaging functional support to the PM's supportability integrated product team (see AR 700-127).
 - (4) Provide packaging functional input to the systems supportability strategy (see AR 700-127).
 - (5) Provide packaging functional input to the systems corrosion prevention and control plan, a section of the systems acquisition strategy (see AR 70-1).
 - (6) Conduct research and development of new military packaging technology in support of current and future materiel acquisition needs for materials and processes unique to their assigned weapon systems (see AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7).
 - (7) Support updates to packaging data for item engineering and logistic changes.
 - (8) Provide for entry of and updates of specified military packaging technical data in the prescribed format to data repositories.
 - (9) Provide applicable military packaging requirements received from acquisition programs in all spare and repair part acquisitions and supply transactions for supported items and/or commodities.
 - (10) Procure military packaging technical data at the time of acquisition of new system components through contract data requirements, where current military packaging technical data are not available from materiel development programs.
 - (11) Provide in-the-clear or coded military packaging technical data for applicable items.
 - (12) Provide resources and funding to designated activities for necessary packaging support including upgrades and

care of supplies in storage (COSIS) as required for stock readiness (SR) in accordance with AR 740-3/DLAI 4145.4/AFJMAN 23-231/NAVSUPINST 4400.100/MCO 4450.15.

(13) Provide resources and funding for projects involving effort for packaging and give storage activities advance notice of any deliveries that will require packaging upgrades.

(14) Stay current on new methods and materials.

(15) Comply with all national and international environmental laws and regulations.

(16) Consider the environmental effect and cost of disposal of a packaging material before specifying its use.

(17) Specify materials that can be reused or recycled in all applications to the extent practical.

(18) Ensure the research, design, development, applicable testing, documentation, and maintenance of military packaging requirements support occur through the coordination with project and/or product managers and managers for RDEC.

(19) Maintain an electronic copy of each prepared special packaging instruction (SPI). The AMC Packaging Design Activity maintains an electronic copy of each prepared SPI. SPIs will be input into the central library of SPIs upon fielding of the enterprise solution.

(20) Maintain configuration control of packaging technical data.

(21) Electronically notify the gaining command of the availability of SPI information upon the transfer of an item.

(22) Ensure solicitations and resulting contracts contain packaging and marking requirements.

(23) Ensure packaging requirements in technical publications (technical bulletins and technical manuals) align with the packaging requirements developed and entered into the packaging data system.

(24) Ensure the acquisition of appropriate packaging through coordination with procurement offices.

(25) Ensure the acquisition of green procurement products, if available.

(26) Ensure supportability planning addresses military packaging as an element of logistics.

(27) Provide command subject matter expert representation to the APPWG and an alternate. Those representatives will—

(a) Serve as advisory staff for the Army on matters related to packaging.

(b) Provide agenda topics and discussion papers for meetings.

(c) Participate at APPWG meetings.

(d) Provide a channel for the interchange of information on packaging problems and information.

(e) Coordinate with the Deputy Chair prior to local test evaluations on packaging or packaging related materials, equipment, or processes.

(f) Complete special studies and surveys and provide recommendations on the DCS, G-4 directed actions.

(g) Possess a thorough knowledge of packaging regarding that individual's command.

(h) Inform the Deputy Chair of changes to command representative and/or alternates.

(28) Assess the current and future packaging training needs, identify and incorporate green procurement packaging requirements for training needs, and—

(a) Ensure that these requirements (quota allocations) are inputted into TACITS Survey and the ATRRS through their quota source manager. The TACITS Survey is available on the ATRRS Channels Web site (<https://www.atrrs.army.mil/LogonCenter/Logon.aspx>). The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.

(b) Budget for adequate time and funding for packaging and packaging related training.

f. Program executive officers, program managers, managers of research, development, and engineering programs, and other materiel developers managing and funding the development of military packaging requirements. Program executive officers, PMs, managers of research, development, and engineering programs, and other materiel developers managing and funding the development of military packaging requirements will—

(1) Establish a memorandum of agreement for technical support with packaging functional subject matter experts in accordance with AR 700-127.

(2) Implement integrated product teams throughout the acquisition process as prescribed in AR 70-1.

(3) Ensure packaging functional subject matter experts are included in integrated product team membership, especially the systems engineering and/or supportability integrated product teams.

g. Commanders of shipping and storage activities. Commanders of shipping and storage activities will—

(1) Apply the specified levels of pack when packaging materiel (see MIL-STD-2073-1).

(2) Follow the applicable packaging requirements-drawings, packaging management data, packaging and related instructions, specifications, and standards.

(3) Use the prescribed practices and materials to consolidate and unitize shipments.

(4) Inspect materiel upon receipt, in storage, and at time of shipment. Report any packaging or shipping discrepancies, including materiel returns, attributable to the shipper (including contractors and/or manufacturers or vendors).

(a) Use Standard Form (SF) 364 (Report of Discrepancy (ROD)) or DD Form 1225 (Storage Quality Control

Report). The term report of discrepancy has been changed to supply discrepancy report; however, the SF 364 has not been updated.

(b) Use DD Form 361 (Transportation Discrepancy Report (TDR)) for transportation discrepancy reports per Defense Travel Regulation 4500.9-R.

(c) Use SF 368 (Product Quality Deficiency Report (PQDR)) per DA Pam 738-751 and DA Pam 750-8 for quality discrepancies.

(5) Correct reported deficiencies and take action to prevent future discrepancies.

(6) Consult the Army Logistics Information Warehouse for latest Army packaging data.

(7) Consult source of supply packaging points of contact if data not available.

(8) Keep all published requirements and references readily available to packaging personnel.

(9) Assess, budget, staff, and provide any training and packaging material needed at the operational level.

(10) Ensure COSIS is performed on stock and it is rotated (on a first-in/first-out basis) and shipped. Stock will be packaged in accordance with instructions in DA Pam 700-32.

(11) Assess the current and future packaging training needs and identify and incorporate green procurement packaging requirements for training needs.

(a) Ensure that these requirements (quota allocations) are inputted into TACITS Survey and ATRRS through the quota source manager. The TACITS Survey will be available only on the Internet at the ATRRS Channels Web site (<https://www.atrrs.army.mil/LogonCenter/Logon.aspx>). The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.

(b) Budget for adequate time and funding for packaging and packaging related training.

h. The Chief, U.S. Army Logistics Support Activity Packaging, Storage, and Containerization Center. The Chief, LOGSA PSCC will—

(1) Provide the Army representation to the Defense Packaging Policy Group.

(2) Act as the Army DOD component point of contact for the Army Wood Packaging Material (WPM) Program.

(3) Provide the Deputy Chair to the APPWG and in this capacity will—

(a) Serve as Deputy Chair or Chair in the absence of the DCS, G-4 representative.

(b) Coordinate meeting dates and arrange for facilities through host activity.

(c) Notify members of the meeting and request agenda topics.

(d) Prepare agenda, meeting minutes, and correspondence for the DCS, G-4 approval.

(e) Serve as the coordinator and point of contact for all activities of the APPWG and task groups and provide to the DCS, G-4 the status on all directed actions.

(f) Maintain and distribute a current list of APPWG members, phone numbers, addresses, and e-mail addresses.

(4) Obtain packaging information from industry trade shows, periodicals, and other sources and distribute all information obtained to the packaging community.

(5) Review test reports concerning research and development in the field of packaging.

(6) Assess the current and future packaging training needs.

(a) Ensure that these requirements (quota allocations) are inputted into ATRRS through their quota source manager. The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.

(b) Budget for adequate time and funding for packaging and packaging related training.

i. The adjutants general and Army National Guard. The AGs and ARNG will—

(1) Assess the current and future packaging training needs and identify and incorporate Green procurement packaging requirements for training needs.

(2) Ensure that these requirements (quota allocations) are inputted into TACITS Survey and ATRRS through the quota source manager. The TACITS Survey is available only on the Internet at the ATRRS Channels Web site (<https://www.atrrs.army.mil/LogonCenter/Logon.aspx>). The military packaging training requirements based on an individual's functional packaging responsibilities will be as specified in AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7.

(3) Budget for adequate time and funding for packaging and packaging related training.

1-5. Training

a. General. Army packaging operations will have a trained workforce with functional knowledge in the latest and most effective concepts and techniques of military packaging. This will include policies, procedures, design criteria, application, verification, and/or inspection techniques used to protect Army materiel from deterioration or degradation during storage, multiple handling, and shipment associated with the military distribution system.

b. Training responsibilities. Personnel managing packaging functions will be responsible for the following:

(1) Identify positions requiring training.

- (2) Assess current and future training needs.
- (3) Develop and update individual development plans in coordination with employee.
- (4) Budget, time, and funding for training.

c. Packaging specialties. Training for personnel with functional packaging responsibilities falls within the following areas:

(1) Preservation and packing includes, but is not limited to, civilian and military personnel performing the preservation and packing at forts, bases, distribution depots, and contractors performing on behalf of DOD.

(2) Requirements development and interpretation includes, but not limited to, personnel assigned responsibilities of developing the technical data package baseline packaging requirements during weapon system development and contract awards or contractors performing those functions on behalf of the DOD.

(3) Verification and/or inspection includes, but is not limited to, personnel that are conducting care of supplies in storage inspections and inspecting compliance with contract packaging requirements either at contractor plants or at time of receipt at forts, bases, and distribution depots.

(4) Packaging, handling, storage and transportation logistics element manager (LEM), component staff, or subject matter expert includes, but is not limited to, personnel assigned responsibility for developing policy and procedures for packaging functions.

(5) Hazardous materials (HAZMAT) certifier.

d. Requirements. Military packaging training will be as follows for each functional area. It is further required that training for each area be completed within the first 2 years in the position.

(1) Preservation and packing.

(a) Defense Ammunition Center (DAC) PACK 1A–DL, Military Preservation and Packaging for Storage and Shipment (Phase 1) – Distributed Learning, and PACK 1B, Military Preservation and Packaging for Storage and Shipment (Phase 2) course. The course consists of the following elements as a minimum:

1. Basic preservation, packing, blocking and bracing, and unitization.

2. Marking for shipment and storage.

3. MIL–STD–2073–1 code and/or requirements interpretation.

4. Packaging and handling of electrostatic discharge sensitive items.

5. Interpretation and understanding of military specifications and nongovernment standards.

(b) DOD WPM Web-based training course is available at <https://tarp.navsisa.navy.mil/wpm>.

(c) Shelf-life training and/or workshop, complete one of the following trainings or workshop:

1. The DOD Shelf-Life Training Course at Navy Supplement Weapon Systems Support, Mechanicsburg, PA, https://www.shelflife.hq.dla.mil/Training_Reg.aspx.

2. Defense Acquisition University (DAU) computer-based shelf-life training (CLL 120), <http://www.dau.mil>.

3. LOGSA PSCC’s 1-day onsite “Principles of Shelf-Life Operations” workshop, (570) 615–7685/7070.

(2) Requirements development.

(a) Prerequisite is paragraph 1–5c(1).

(b) DAC PACK 2, Military Packaging Design course. The course consists of the following elements as a minimum:

1. MIL–STD–2073–1 requirements development.

2. Packaging design.

3. Advanced preservation and packing.

(c) DAU Continuous Learning Logistics 013, DOD Packaging course.

(3) Verification and/or inspection.

(a) Prerequisites are paragraph 1–5c.

(b) On-the-job training or courses in the following subjects as determined by the employee and supervisor:

1. MIL–STD–2073–1, quality assurance provisions.

2. International Organization for Standardization 9000.

3. Discrepancy reporting.

4. Contracts interpretation.

(4) Packaging, handling, storage and transportation LEM, component staff, or subject matter expert.

(a) Prerequisites are listed paragraph 1–5c.

(b) Defense Acquisition Workforce Improvement Act, Life Cycle Logistics, Level Courses, as appropriate, for grade. If not an Acquisition Workforce position, then ACQ 101 and LOG 101 will be required as a minimum.

(c) LEM training as determined by the employee and supervisor (for example, rotational assignments, integrated product team participation, and field support).

(5) HAZMAT certifier.

(a) Prerequisite is listed in paragraph 1–5c.

(b) Training for packaging and marking of HAZMAT will comply with the requirements of the Defense Travel Regulation 4500.9-R.

e. Training sources.

(1) Located at McAlester, OK, DAC is the DOD prime source for military packaging training. DAC offers resident courses, onsite courses, and distance-learning courses. The schedule and descriptions of these courses, which cover all aspects of military packaging, may be viewed at the DAC Web site (<http://ammo.okstate.edu>). This information is also available in the ATRRS course catalog available online at the ATRRS Web site (<https://atrrs.army.mil/atrrscc>). In addition to maintaining student input, the ATRRS maintains a database of course information on virtually every course that is taught at military and DOD training institutions. The school code for DAC is 910. Register as follows:

(a) If the nominating official or training coordinator has access to ATRRS, nominations must be made through ATRRS.

(b) If ATRRS is not available, contact the registrar by e-mail at mcal.dac.sjmac-as@conus.army.mil.

(2) The DAU offers training for acquisition workforce. Information about DAU courses and the achievable certification levels are found at http://icatalog.dau.mil/icatalog_home.aspx. These DAU courses are offered by the following modes: resident; local or onsite; distance learning; facilitated online learning environment; or a hybrid (combination of classroom and distance learning). Acquisition workforce, civilian, and military personnel desiring DAU training can apply for a course through the ATRRS Web site or the DAU Web site (<http://www.dau.mil>) by selecting "I Need Training," then "Apply for DAU Course," then the applicable status of the employee (or if contractor, "Employee working for a Company that Supports DOD").

(3) NAVSUP Weapon Systems Support, Mechanicsburg, PA, register at https://www.shelflife.hq.dla.mil/Training_Reg.aspx.

(4) LOGSA PSCC provides a one-day workshop at your installation if you have 10 or more participants. PSCC can also provide a walkthrough of your warehouse during the workshop. Additional information can be obtained by calling (570) 615-7685/7070.

Chapter 2 Preparation and Documentation of Packaging Requirements

Section I Preparation

2-1. Developing requirements

Military packaging requirements will conform to DOD 4140.1-R, AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7, MIL-STD 2073-1, and this regulation and follow the procedures in DA Pam 700-32.

2-2. Coordinating requirements

Army activities that prepare and coordinate MIL-HDBK-967, MIL-STD-961, MIL-STD-962, and commercial item descriptions/Federal specifications and standards (Federal Standardization Manual), and technical publications that contain packaging requirements, in detail or by reference, will submit draft copies to the Chief, LOGSA PSCC (AMXLS-AT), 11 Hap Arnold Boulevard, Tobyhanna, PA 18466-5097, for review and comments.

a. Standardization documents include the following:

- (1) Documents relevant to the pack area (to include all "packaging of" documents).
- (2) Documents having packaging requirements applying to Army-managed or Army-used items. (Army preparing activities and document custodians will ensure that Army policy is included in commodity specifications.)
- (3) Industry standards dealing with packaging machinery, methods, materials, procedures, or packaging operations being considered or being used within DOD packaging operations.
- (4) Documents for packaging related items and materials (for example, MIL-PRF-131 and MIL-STD-147).

b. Excluded documents includes the following:

- (1) Publications dealing with installation, operation, maintenance, and repair parts in support of Army materiel.
- (2) SPI and coded packaging data listings.

Section II Documentation

2-3. Prescribing requirements

a. Preparing activities and product support providers will refer to appropriate data items descriptions and MIL-STD-2073-1 when determining military packaging requirements. In addition, they will—

(1) Use the concept of military packaging design for the item. Item characteristics, including size, weight, fragility, and related data, will be identified to ensure item integrity in the packaged configuration.

(2) Use the concept of minimum weight and cube. Protect items within the minimum weight and cube consistent with efficient distribution. Maximum weight and dimensions will be cited in solicitations and resulting contracts to ensure the executor of the packaging requirements will not exceed the shape and volume intended by the package designer.

b. A SPI will be developed in accordance with MIL-STD-2073-1, when preservation-packing data and supplemental data do not provide sufficient detail to allow reproduction of the complete package.

(1) The first position of the SPI number must be an "A" for Army.

(2) The second position of the SPI number must equal the first position of the Army materiel category code listed in the Logistics Modernization Program, AMC data tab, Federal Logistics Information System controlled data subtab.

c. When logistics management information for distribution and packaging is provided in electronic format, the format will be in accordance with packaging data in the Government Electronics and Information Technology Association (GEIA)-STD-0007.

2-4. Packaging data development

a. Capture packaging data from Army installations and activities other than AMC and LCMCs.

b. Army installations that perform the actual packaging of items are authorized to develop packaging data for an item only when the data is not available in the Logistics Information Warehouse or from any other source and urgency dictates immediate action and the appropriate AMC Packaging Design Activity cannot be contacted (see DA Pam 700-32).

c. When weight and dimension data for a given item are not available in automated data systems, develop the data locally (except for items having acquisition advice codes L, N, T, V, W, and Y).

Chapter 3 Packaging Requirements for Life Cycle Support

3-1. Procurement work directive

a. *Procurement work directive.* Packaging personnel at the buying activity will review PWDs to ensure that packaging requirements are technically adequate and cost effective. Packaging personnel will consider the anticipated distribution and environmental requirements of the materiel being procured from the time of acquisition to consumption by the end user. If packaging requirements are either missing or require update, the packaging design activity will be immediately contacted for packaging requirements.

b. *Government-owned, Government-operated, or a Government-owned contractor-operated facility.* The PWD process at a GOGO or a GOCO facility starts after a decision is made to obtain the needed parts from a GOGO or a GOCO facility. A scope of work will need to be developed that describes the part to be obtained. Within the scope of work, there will be a technical section that provides all the necessary technical information to include, but not limited to, packaging requirements. If the packaging requirements have not been developed and/or approved, the packaging design activity will be immediately contacted and packaging requirements developed prior to the documents being released to the GOGO or GOCO for a quote.

3-2. Military packaging

a. Military packaging will be accomplished in accordance with MIL-STD-2073-1 and DA Pam 700-32.

b. Military packaging will be provided to, but not limited to the following:

(1) Items that cannot be protected and preserved in a cost-effective manner using standard practices for industrial or retail packaging.

(2) Items delivered during wartime for deployment with or sustainment to operational units.

(3) Items that are depot-level repairables.

(4) Items requiring reusable containers.

(5) Items intended for delivery at sea.

(6) Security assistance, foreign military sales, and/or Grant Aid (unless otherwise directed by the destination country).

c. Marking will be in accordance with MIL-STD-129.

3-3. Industrial packaging

a. When items are not entering the Military Distribution System and will be used in the assembly of major end items or sets, kits, and outfits, industrial packaging is authorized in accordance with AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7 and MIL-STD-2073-1. Industrial packaging must meet the

requirements of specific industry packaging standard for the commodity being purchased. Tailoring may be required to ensure proper marking and safe arrival at destination.

b. When MIL-STD-2073-1 requires the use of military packaging, industrial packaging will not be used.

c. Marking will be in accordance with MIL-STD-129.

d. Use of industrial packaging is contingent upon its ability to provide adequate protection to the item with no increase in packaging charges, size, weight, or delay in delivery. Bulk practices used in interplant and intraplant movements or shipments to jobbers are acceptable when they are the usual trade practices for individual commodities such as coal, bulk petroleum, and fresh produce.

e. Items packed in industrial packing must be used 90 days from packaging date.

3-4. Consumer (retail) packaging

a. When items are entering the Military Distribution System and will be used in an installation repair shop, consumer packaging is authorized in accordance with AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7 and MIL-STD-2073-1.

b. Consumer packaging must meet the requirements of American Society for Testing and Materials (ASTM) D3951-98 or the specific industry packaging standard for the commodity being purchased. Tailoring may be required to ensure proper marking and safe arrival at destination.

c. Marking will be in accordance with MIL-STD-129.

d. Use of consumer packaging is contingent upon its ability to provide adequate protection to the item, with no increase in packaging charges, size, weight, or delay in delivery.

e. When MIL-STD-2073-1 requires military packaging, consumer packaging will not be used.

Chapter 4

Control and Evaluation of Packaging Requirements

4-1. Control of packaging requirements in shipment and storage applications

a. *Request to change packaging.* Packaging design activities responsible for the item packaging requirements receive, evaluate, and approve requests for waivers from specified packaging.

b. *Coordination.* Proposed waivers affecting packaging are coordinated with the activity responsible for the item (see DA Pam 700-32 for detailed instructions).

4-2. Analysis of packaging requirements and applications

Packaging analysis is used to find improved requirements where inadequate, excessive, or nonstandard requirements are apparent. Packaging analysis will be applied when inadequate methods, materials, or designs are suspected in a packaging requirement.

a. Value engineering principles are used in analyzing packaging design and performance. Standardizing packaging material, reducing footprint, and reducing cost are also considered.

b. Packaging analysis complements the Supply Discrepancy Report Program and does not lessen the need for reporting packaging deficiencies. Packaging analysis will be focused on items likely to result in cost saving and supply efficiency.

c. Follow procedures in DA Pam 700-32.

4-3. Evaluation of suggestions

a. *Submission to Logistics Support Activity Packaging, Storage, and Containerization Center.* A suggestion dealing with packaging, storage, transportation, or hazardous materials is sent to LOGSA PSCC (toby.pt@us.army.mil) for evaluation when—

(1) The suggestion has been locally adopted and is deemed to have a broader than local application.

(2) The subject of the suggestion does not pertain to any local activity, although it is considered useful to other activities.

(3) The suggestion is recommended for adoption, but approval is not within the authority of the office making the evaluation because of commodity or functional level.

b. *Participation by U.S. Army Materiel Command life cycle management commands and research, development, and engineering centers, installations, and activities.* Each AMC LCMC and RDEC, installation, and activity will—

(1) Provide a supporting evaluation per AR 672-20.

(2) Provide LOGSA PSCC an estimate of tangible and intangible benefits to be derived, if adopted.

(3) Provide comments and recommendations to LOGSA PSCC on suggestions initiated elsewhere, when requested.

(4) Evaluate suggestions received from LOGSA PSCC covering single stock numbered items or single commodities. Replies directly to the activity requesting evaluation with an information copy to LOGSA PSCC.

- c. The Logistics Support Activity Packaging, Storage, and Containerization Center.* This center will—
- (1) Receive and evaluate suggestions based on data on hand or obtained through DOD-wide coordination.
 - (2) Forward suggestions covering a single stock numbered item or single commodity to the applicable LCMC or RDEC for evaluation and direct reply to the activity requesting evaluation.

Chapter 5

Asset Protection Programs

5-1. General

This chapter defines the actions for an activity that prepares materiel, including all classes of supply for shipment and storage. The marking of shipments of supplies, equipment, and ammunition will be in accordance with MIL-STD-129.

5-2. Care of Supplies in Storage Program

The COSIS Program is defined in DLAR 4145.4. Included in the COSIS is the SR Program, which was developed to ensure that all DOD materiel is properly identified, classified, packaged, and stored. The SR Program policy and guidance for Joint Service Management is in accordance with AR 740-3/DLAI 4145.4/AFJMAN 23-231/NAV-SUPINST 440.100/MCO 4450.15. The definitive SR Program guidance for Army operations is in DA Pam 700-32. Packaging discrepancies must be documented on SF 364 or DD Form 1225 for reimbursement.

5-3. Army prepositioned stock

- a. For storage.* Army prepositioned stock materiel will be prepared for storage in accordance with TM 38-470.
- b. For shipments in support of deployments.*
 - (1) Shipments of nonself-propelled equipment will be packaged in accordance with MIL-STD-2073-1.
 - (2) In line with AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7, when the total shipment weight is less than 25 pounds and the total shipment cube is less than 1 cubic foot, a Level B pack can be specified.
 - (3) Self-propelled equipment will be prepared for shipment and remain safe to drive (drive-on/drive-off condition). The exceptions will be when the equipment is in a roll-on/roll-off condition because—
 - (a)* It was or will be weather-deck loaded on the ship.
 - (b)* The site or theater commander specifically requested roll-on/roll-off condition.
- c. For packaging.* All Class V is packaged in accordance with appropriate packaging drawings and palletization procedures.

5-4. Retrograde materiel

Serviceable and unserviceable returns are protected in accordance with AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7, MIL-STD-2073-1, DA Pam 700-32, and this regulation.

5-5. Excess materiel

Consumable, serviceable excess returns for credit will be retrograded from the materiel collection points and will be turned in using the standard procedures contained in AR 710-2 and associated pamphlets. To prevent deterioration and damage, consumable, serviceable excess returns will be packaged in accordance with procedures in DA Pam 700-32.

5-6. Defense Reutilization and Marketing Office

Shipments to the Defense Reutilization and Marketing Office must be prepared for safe transport and carrier acceptance but do not require preservation, a reusable container, or WPM conformance. All communications security equipment items and unclassified controlled cryptographic items are specifically prohibited from disposal through Defense Reutilization and Marketing Office channels. If any of these items are unserviceable and/or uneconomically repairable, they must be evacuated through supply channels to the Commander, Tobyhanna Army Depot, Tobyhanna, PA.

Chapter 6

Army Phytosanitary Measures for Wood Packaging Material Transiting International Borders

6-1. Phytosanitary requirements

The United Nations guidelines protecting forests worldwide against pest infestation has imposed these requirements. WPM includes pallets, crates, boxes, reels, and dunnage composed of nonmanufactured wood. Manufactured wood products are not affected—for example, plywood, particleboard, oriented strand board, and finished woods used in

furniture. Army activities engaged in packaging of materiel for transnational shipments will comply with the procedures contained within DA Pam 700-32 and DOD 4140.1-R in order to gain access to aerial and water ports. Failure to follow these procedures creates a strong risk that uncertified, unmarked, or improperly marked materiel will become frustrated cargo and destroyed at the port of debarkation, or will be required to be repacked at the port or consolidation and containerization point, causing increased cost and time delays to the Army. The Army will actively promote, implement, monitor, and measure procedures within DOD 4140.01-R to ensure the elimination of undesirable organisms using WPM as a host. As such, the intent is to treat, test, replace, or phase-out inventory of all noncompliant WPM overtime.

6-2. Management controls

ACOMs, ASCCs, and/or DRUs will maintain documentation for compliance purposes throughout the process. ACOMs, ASCCs, and/or DRUs will audit, report, and enforce WPM standards and measures. Audit and enforcement will include onsite inspections and may also include the use of a centralized DOD Web-based program. Each activity certifying WPM will be audited in accordance with Army audit procedures. ACOM, ASCC, and/or DRU activities will provide monthly reports, coordinated through their chain of command, to the DOD centralized Web site. The reports must be posted to the DOD centralized Web site within 2 weeks of the end of the reported month. The reporting instructions in DOD 4140.65-M are required.

Chapter 7 The Army Packaging Policy Work Group

7-1. Army Packaging Policy Work Group

The APPWG is a permanent forum established to develop and recommend changes to policy, guidance, and standardization of packaging throughout the Army as they relate to the overall Federal and DOD distribution system. Details are in DA Pam 700-32. The APPWG provides a forum to discuss and disseminate items of interest to the Army packaging community. Army concerns and recommendations are carried forward to the Defense Packaging Policy Group forum, where DOD Services meet to discuss on the DOD level what the APPWG members discuss.

7-2. Department of Defense packaging awards

The Army participates in the DOD packaging awards as identified in DOD 4140.1-R. The APPWG is the forum to announce, solicit, and recognize Army candidates for these awards.

Appendix A Reference

Section I Required Publications

DA Pam 700-32

Packaging of Army Materiel (Cited in paras 1-1, 1-4g(10), 2-1, 2-4b, 3-2a, 4-1b, 4-2c, 5-2, 5-4, 5-5, 6-1, and 7-1.)

Section II Related Publications

A related publication is a source of additional information. The user does not have to read it to understand this regulation. CFRs are available at <http://ecfr.gpoaccess.gov>. DOD publications are available at <http://www.dtic.mil/whs/directives>. MIL-HDBKs, MIL-PRFs, MIL-STDs, and PPP-Bs are available at <http://assist.daps.dla.mil/quicksearch>.

AR 11-2

Managers' Internal Control Program

AR 25-30

The Army Publishing Program

AR 70-1

Army Acquisition Policy

AR 672-20

Incentive Awards

AR 700-15/NAVSUPINST 4030.28E/AFJMAN 24-206/MCO 4030.33E/DLAR 4145.7

Packaging of Materiel

AR 700-127

Integrated Logistics Support

AR 708-1

Logistics Management Data and Cataloging Procedures for Army Supplies and Equipment

AR 710-1

Centralized Inventory Management of the Army Supply System

AR 710-2

Supply Policy Below the National Level

AR 715-13/DLAR 3200.1/NAVSUPINST 4120.30/MCO 4000.18C

Engineering Support for Items Supplied by Defense Logistics Agency and General Services Administration

AR 740-1

Storage and Supply Activity Operations

AR 740-3/DLAI 4145.4/AFJMAN 23-231/NAVSUPINST 440.100/MCO 4450.15

Stock Readiness

ASTM D3951-98

Standard Practice for Commercial Packaging (Available at <http://www.astm.org>.)

ASTM D4169-08

Standard Guide for Performance Testing of Shipping Containers and Systems, E1-2000 (Available at <http://www.astm.org>.)

DA Pam 700-142

Instructions for Materiel Released, Fielding, and Transferred

DA Pam 708-2

Cataloging and Supply Management Data Procedures for the Army Central Logistics Data Bank

DA Pam 738-751

Functional Users Manual for the Army Maintenance Management System (TAMMS-A)

DA Pam 750-8

The Army Maintenance Management System (TAMMS) Users Manual

DMM

Domestic Mail Manual (Available at www.usps.com/publications/manuals/welcome.htm.)

DOD 4140.01

Supply Chain Materiel Maintenance Regulation

DTR 4500.9-R

Parts I (Passenger Movement), II (Cargo Movement), III (Mobility), and IV (Personal Property) (Available at <http://www.transcom.mil/j5/pt/dtr/cfm>.)

GEIA-STD-0007

Logistics Product Data, Version 1.0 (Available at <http://webstore.ansi.org>.)

GSA Federal Supply Service

Defense Demilitarization Manual

Medical Marking Standard No. 1

Marking requirements for all contractor-originated shipments of medical materiel to military supply depots and to medical treatment facilities (Available at www.dscc.dla.mil/Offices/packaging/medical.html.)

MIL-PRF-131K

Barrier Materials, Water, Vaporproof, Greaseproof, Flexible, Heat Sealable

MIL-STD-129

Military Marking for Shipment and Storage

MIL-STD-147

Palletized Unit Loads

MIL-STD-961

Defense and Program-Unique Specifications Format and Content

MIL-STD-962

Defense Standards Format and Content

MIL-STD-967

Defense Handbooks Format and Content

MIL-STD-2073-1

DOD Standard Practice for Military Packaging

PPP-B-1672

Boxes, Shipping, Reusable with Cushioning (Available at <http://assist.daps.dla.mil/quicksearch>.)

SB 742-1

Inspection of Supplies and Equipment Ammunition Surveillance Procedures

TM 38-470

Storage and Maintenance of Army Prepositioned Stock Materiel (Available at <https://www.logsa.army.mil>.)

29 CFR

Labor

40 CFR

Protection of Environment

49 CFR

Transportation

Section III

Prescribed Forms

This section contains no entries.

Section IV

Referenced Forms

Unless otherwise indicated below, DA Forms are available at the Army Publishing Directorate Web site <http://www.apd.army.mil>. DD Forms are available at <http://www.dtic.mil/whs/directives/infomgt/forms/formsprogram.htm>. SFs are available at <http://www.gsa.gov>.

DA Form 2028

Recommended Changes to Publications and Blank Forms

DD Form 61

Request For Nomenclature

DD Form 361

Transportation Discrepancy Report (TDR)

DD Form 1225

Storage Quality Control Report

SF 364

Report of Discrepancy (ROD)

SF 368

Product Quality Deficiency Report (PQDR)

Glossary

Section I Abbreviations

ACOM

Army command

AG

adjutant general

AMC

U.S. Army Materiel Command

APPWG

Army Packaging Policy Work Group

ARNG

Army National Guard

ASCC

Army service component command

ASTM

American Society for Testing and Materials

ATRRS

Army Training Requirements and Resources System

CFR

Code of Federal Regulation

COSIS

care of supplies in storage

DA

Department of the Army

DAC

Defense Ammunition Center

DAU

Defense Acquisition University

DCS, G-4

Deputy Chief of Staff

DLA

Defense Logistics Agency

DOD

Department of Defense

DRU

direct reporting unit

FOC

full operating capability

GEIA

Government Electronics and Information Technology Association

GOGO

Government-owned, Government-operated

GOCO

Government-owned, contractor-operated

IMCOM

U.S. Army Installation Management Command

HAZMAT

hazardous materials

LCMC

Life Cycle Management Command

LOGSA

Logistics Support Activity

PEO

program executive officer

PM

program manager

PPP-B

preservation, packaging, and packing-box

PSCC

Packaging, Storage, and Containerization Center

PWD

procurement work directive

RDEC

Research, Development, and Engineering Center

SPI

special packaging instruction

SR

stock readiness

TACITS

Total Army Centralized Individual Training Solicitation

Section II**Terms****Army Packaging Design Activity**

The RDEC or LCMC responsible for the development and maintenance of packaging technical information required to protect a weapon system and its components and spare parts during their life cycle. Packaging design and data management responsibility for items transferred to Defense Logistics Agency (DLA) under the consumable item transfer will remain the responsibility of the engineering support function retained by a Service during partial inventory control point function transfer to another Service or agency. Packaging design and data management responsibility for items transferred to DLA under the consumable item transfer will be determined in accordance with the requirements of AR 715-13/DLAR 3200.1/NAVSUPINST 4120.30/MCO 4000.18C and any memorandums of agreement that may exist between an RDEC and DLA or an LCMC and DLA.

Box

Rigid, closed container usually rectangular/prismatic in shape.

Bundle

Two or more articles held together by whatever means (for example, banding, strapping, tying, or shrink/stretch wrap) so as to form a shipping unit.

Consignor (shipper)

Party who ships materiel and whose name and address appear in the "From" block of the shipping label.

Consolidation container

A container used to consolidate more than one line item into a single shipping container to be shipped to one destination, but not necessarily to one addressee.

Crate

A rigid shipping container of framed construction joined together with nails, bolts, or other means of fastening. The framework may or may not be enclosed with sheathing. It may be demountable or nondemountable.

Cushion

Protection of an item from physical damage by using materials designed to absorb shocks and vibrations by compression.

Dimensions

The measurement of length, width (or diameter), and depth of containers, expressed in that order, it will be stated as "inside" or "outside."

Drum

A cylindrical shipping container having straight sides and flat, convex, or embossed ends, designed for storage and shipment as an unsupported outer package that may be shipped without boxing or crating. It may be made of metal, plywood, or fiber with wooden, metal, or fiber ends. Drums are also made of rubber or plastics.

Dunnage

Materials not constituting a part of the container, frequently a byproduct or scrap, used for filling space, for blocking and bracing, or otherwise to protect and secure the contents dunnage. Wood packaging material used to secure or support a commodity but which does not remain associated with the commodity.

Exterior container

A container, bundle, or assembly that is sufficient due to material, design, and construction to protect unit packs, intermediate containers, and their contents during shipment and storage. It can be a unit pack or a container with a combination of unit packs or intermediate containers. An exterior container may or may not be used as a shipping container.

Exterior pack

A container, bundle, or assembly that is sufficient by design and construction to protect unit and intermediate packs and contents during shipment and storage. This can be a unit pack or a container with any combination of unit or intermediate packs.

Federal Logistics Database

Federal Logistics Database is a logistics information system that allows retrieval of information from the Federal Logistics Information System and service specific databases (see <http://www.dlis.dla.mil/fedlog>).

Federal Logistics Information System

A logistics database more than million active and six million inactive items of supply providing information for the military services, civilian agencies, contractors, North Atlantic Treaty Organization countries, and other friendly foreign governments. The Federal Logistics Information System contains information about manufacturers, item characteristics, item logistics, management, transportation, packaging, and use for specific items. The system collects, stores, processes, sorts, and distributes data to provide information products and services to thousands of customers, worldwide (see <http://www.dtic.mil/whs/directives/corres/pub1.html>).

Fiberboard box

A container made of one or more pieces of corrugated or solid fiberboard.

Hazardous materials

An item of supply consisting of materiel that because of its quantity, concentration, or physical, chemical, or infectious

characteristics, may either cause or significantly contribute to an increase in mortality or an increase in serious, irreversible, or incapacitating reversible illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed (this includes all items listed as hazardous in 29, 40, 49 Code Federal Regulation, and other applicable modal regulations effective at the time of shipment).

Industry standards

Published guidelines derived from a voluntary consensus among manufacturers, consultants, and designers.

Intermediate pack

A wrap, box, or bundle that contains two or more unit packs of identical items. Item description (nomenclature). The name and description of an item as it appears in the contract, purchase order, or requisition. The source document for this information is DD Form 61 (Request for Nomenclature), which contains the exact name and description of an item.

Label

A piece of paper or other material to be affixed to a package, container, or article and on which is printed either information concerning the product or addressees.

Load

Types of loads are determined by the degree of structural strength supplied to the shipping container by the contents.

Marking

Application of numbers, letters, labels, tags, symbols, or colors for handling of identification during shipment and storage.

Pack

To place materiel into a container for handling, storage, or transport.

Package

One or more articles or pieces contained or secured into a single unit.

Packaging

An all-encompassing term describing the methods and materials used to protect materiel from deterioration or damage. Packaging includes the processes of preservation, cleaning, drying, packing, marking, and unitization.

Packing

The assembly of items into unit packs and intermediate or exterior containers, with the necessary blocking, bracing, cushioning, weatherproofing, reinforcement, and marking.

Phytosanitary

Plant health including the protection of natural flora and plant products. It also includes both direct and indirect damage by pests.

Phytosanitary measure

Any legislation, regulation, or official procedure used to prevent the introduction and/or spread of quarantine pests, or to limit the economic impact of regulated nonquarantine pests.

Preservation

The processes and procedures used to protect materiel against corrosion, deterioration, and physical damage during shipment, handling, and storage. As applicable, preservation includes cleaning, drying, application of preservative, wrapping, cushioning, containers (unit and intermediate), and complete identification markings up to but not including the exterior shipping container. Military methods of preservation are defined in MIL-STD-2073-1.

Preservative

A substance which when applied directly to an item provides initial environmental protection.

Quantity

The number of units of issue contained in a unit pack, intermediate pack, shipping, container, bundle, or secure lift.

Recycled

Diverted, separated, or removed from the solid waste stream, processed and returned to use in the form of raw materials or products.

Reel

A cylindrical device that has a rim at each end and an axial hole for shaft or spindle, and on which a product is wound to facilitate handling and shipping.

Reusable

Intended to be used for its original purpose one or more times.

Reusable container

A shipping and storage container that is designed for reuse without impairment of its protective function. A shipping and storage container that can be repaired, refitted, or both to prolong its life or to adapt it for shipment of items other than that for which it was originally intended.

Shipping container

A container, which meets minimum carrier regulations and is of sufficient strength due to material, design, and construction to be shipped safely without further packing.

Skid

An adjustable flat surface pallet designed to fit the size of the container being shipped. One of a pair of series of parallel runners, usually wood, affixed to the underside of boxes, crates, or an item to allow entry of trucks, forks, or to facilitate sliding.

Stretch wrap

A thermoplastic material having elastic properties to permit stretching and wrapping around small unit packs or pallet loads.

Unitization

Assembly of exterior packs of one or more line items of supply into a single load so that the load can be handled as a unit through the distribution system. Unitization (unitized loads or unit loads) encompasses consolidation in a container, placement on a pallet or load base, or securely binding together.

Unit load

A single item or an assembly of items (in or out of containers) designed so that the whole is handled as a single entity.

Unit pack

The first tie, wrap, or container applied to a single item, or a quantity thereof, or to a group of items of a single stock number, preserved or unpreserved, that constitutes a complete or identifiable package. A unit pack is also often referred to as a package or merely as a pack.

Weight

Force exerted by a mass due to acceleration submitted; force measured by a scale.

Wood packaging material

Hardwood and softwood packaging material used in supporting, protecting, or carrying a commodity (includes dunnage). Examples of WPM include, but are not limited to, pallets, skids, pallet collars, containers, crates, boxes, cases, bins, reels, drums, load boards, and dunnage. Wood packaging made of exempt materials but combined with solid wood components must still be treated and marked. Does not include processed wood materials and manufactured wood products. (WPM was previously known as nonmanufactured wood packaging or solid wood packaging material.)

Wrap

Piece of flexible material either precut or cut to length for manual or mechanical wrapping of the item to be packaged.

Section III
Special Abbreviations and Terms

LEM

logistics element manager

WPM

wood packaging material

UNCLASSIFIED

PIN 103358-000