

Attachment 28

INSPECTION PROCEDURES

A28.1. Inspection General Requirements. Inspect hazardous materials before entering into the military airlift system. The inspection ensures hazardous materials are properly prepared and documented. Follow the guidelines in this attachment when inspecting hazardous materials, including opening an external container to inspect the internal packagings.

A28.1.1. Originating Shipping Activities. This activity prevents entry of improper shipments into the transportation system. Establish a quality control program that ensures packing, marking, labeling, and certifying of hazardous materials comply with this manual and safety of airlift criteria.

A28.1.1.1. Inspect each package to ensure the packaging is correct and in good condition.

A28.1.1.2. Open exterior containers if there is physical evidence to support suspected damage of the inner receptacles or if the external markings do not correspond to the type of container. Reseal opened containers according to the applicable test report or SPI.

A28.1.1.3. Provide graduated dip-stick with any vehicle or wheel engine-powered SE without an operational fuel gauge containing fuel-in-tank. Not required if the item is drained and purged or drained to 500 ml (17 ounces) or less of residual fuel.

A28.1.1.4. Check shipper's certification for overall accuracy including correct packaging paragraph.

A28.1.1.5. Immediately remove damaged or improperly prepared packages from the transportation system.

A28.1.1.6. Periodically inspect cylinders or spheres to ensure they have been retested and marked as required by 49 CFR Part 180, Subpart C and DLA I 4145.25/AR 700-68/NAVSUPINST 4440.128/MCO 10330.2B/ AFMAN 23-227_IP, *Storage and Handling of Compressed Gases and Cylinders*. Do not offer for transportation any cylinder or sphere not meeting this requirement.

A28.1.2. Inspectors Other Than Originating Shipping Activity. Establish an inspection program at each Aerial Port of Embarkation to prevent improperly prepared hazardous material from entering the transportation system.

A28.1.2.1. As a minimum, visually inspect all exterior containers and equipment for damage or leakage. Reject packages showing evidence of leakage (moisture or staining) or other suspected damage until corrective action is taken to make sure the item is safe for air shipment (see paragraph 1.7.). Rigged airdrop loads do not have to be de-rigged. Inspect airdrop loads only as an outer package.

A28.1.2.2. Remove improperly prepared or damaged containers from the transportation system and advise the shipper to immediately coordinate corrective action. Properly store suspect packages containing explosive material pending repair or disposition.

A28.1.2.3. Use accurate fuel gauges, graduated dip-sticks or other positive means to determine the amount of fuel-in-tank for vehicles and equipment. If positive means is not available, drain and refill fuel tank to appropriate level in the presence of an inspector.

A28.1.2.4. Review all Shipper's Declarations for Dangerous Goods for accuracy. Make sure special instructions and warning labels are complete and being followed.

A28.1.2.5. Enter "Inspected by (followed by name of inspector, location, and date)" in key 6 of the Shipper's Declaration form. The "Inspector" cannot be the same individual who completes the Shipper's Declaration for Dangerous Goods and signs Key 22.

A28.1.2.6. Do not violate compatibility requirements (Attachment 18) in the consolidation or makeup of cargo loads.

A28.1.2.7. Report deficiencies in accordance with the procedures detailed in the DTR 4500.9-R, Part II, Chapter 210. Report supply discrepancies including item, packaging, and documentation discrepancies under official Supply Discrepancy Report (SDR) guidance contained in Defense Logistics Manual (DLM) 4000.25-M, Defense Logistics Management System (DLMS), Volume 2, Chapter 17, Supply Discrepancy Reporting (or equivalent reporting means as designated by the Service Focal Points and coordinated with HQ AMC) for any deficiencies discovered.

A28.1.2.8. The Contingency Response Group (CRG), Departure Airfield Control Group (DACG), or Contingency Response Element/Team (CRE/CRT) or Cargo Deployment Function (CDF) provides qualified joint inspectors for the mobility movement inspection function during tactical or contingency deployments, redeployments, and exercises (see paragraph 1.2.6.).

A28.1.2.9. Figure A28.1. is an example of inspection record format.

A28.2. Inspection Packaging Procedures. Design inspection procedures to validate safety of the shipment. Do not physically damage the package or perform any function that adversely affects the integrity or original performance capability of the packaging.

A28.2.1. Packaging Areas of Emphasis. As a minimum, inspection addresses the following areas:

A28.2.1.1. Single Packaging.

A28.2.1.1.1. Drum ullage.

A28.2.1.1.2. External visual condition and serviceability. Dents or corrosion at chime or seam, or dents causing paint chipping is considered damaged and requires removal from the transportation system.

A28.2.1.1.3. External package marking and labeling. Verify UN specification code (including package type and gross weight), for air eligibility, hazard and handling markings/labels.

A28.2.1.2. Combination Packaging.

A28.2.1.2.1. Inner receptacle orientation.

A28.2.1.2.2. Inner receptacle ullage.

A28.2.1.2.3. Inner receptacle secondary closure.

A28.2.1.2.4. Absorbent and cushioning material.

A28.2.1.2.5. Leak-proof liner (covering item or lining outer container).

A28.2.1.2.6. Air-eligible.

A28.2.1.2.7. External package markings including UN specification code, air-eligible, hazard and handling marking/labels, orientation markings for combination packagings and drums used as overpacks.

A28.2.1.3. Vehicles and Equipment.

A28.2.1.3.1. Fuel gauges operative or graduated dip-stick available.

A28.2.1.3.2. Fuel in tank quantity, including verifying presence of additional fuel tanks.

A28.2.1.3.3. Fuel leaks.

A28.2.1.3.4. Battery terminal posts protected against short circuit.

A28.2.1.3.5. Fire extinguishers secured in properly configured and approved holders.

A28.2.1.3.6. Spare fuel and secondary loads properly identified, packaged, stowed, and restrained.

A28.2.2. Packaging Opening and Closing. The following instructions provide acceptable procedures for opening external containers to inspect the internal packaging configuration. Comply with these procedures to maintain the performance capability of the package and the original shipper's certification. Noncompliance with any of these procedures constitutes repacking and requires a new certification.

A28.2.2.1. Fiberboard box opening.

A28.2.2.1.1. Cut original tape along seam using a shallow blade knife. Do not tear tape.

A28.2.2.1.2. If adhesive sealed on inside box flaps or the flaps are stitched/stapled (not closed by tape) opening may damage packaging components.

A28.2.2.2. Fiberboard box closure.

A28.2.2.2.1. Apply new tape over the existing tape using same method as original.

A28.2.2.2.2. Use only ASTM D 5486, Type I, Class 2 (film backed, pressure-sensitive adhesive, weather resistant) tape to reclose package.

A28.2.2.2.3. ensure the ends of sealing tape extends over the original tape a minimum of one-inch adhering to the fiberboard on the ends of the package.

A28.2.2.2.4. Use three-inch wide tape or two strips of two-inch wide tape.

A28.2.2.2.5. Ensure surface is clean and dry before applying tape and box flaps meet squarely.

A28.2.2.2.6. Do not cover markings or labels with tape.

A28.2.2.2.7. When reclosed using these procedures a new shipper's certification is not required. Based on DOD testing the packaging is considered returned to original condition and is not considered repacking.

A28.2.2.2.8. If adhesive sealed on inside box flaps or flaps are stitched/stapled (not closed by tape) then reclosure is considered repacking and requires a new shipper's certification.

A28.2.2.3. Wood box opening.

A28.2.2.3.1. Opening causes damage to packaging material.

A28.2.2.3.2. To reduce damage to wood material, use a nail puller to remove nails.

A28.2.2.3.3. Do not pry open wood box panels using crowbars, etc.

A28.2.2.4. Wood box closure.

A28.2.2.4.1. Do not close by nailing through existing holes.

A28.2.2.4.2. Replace damaged components. Use prescribed materials and specifications required by the applicable test report, special packaging instruction, or drawing.

A28.2.2.4.3. Replacing packaging material components is considered repacking and requires a new shipper's certification.

A28.2.2.5. Drum opening. Only open drums used as a combination package or overpack. Do not open drums used as a single package for liquid hazardous material.

A28.2.2.6. Drum closure.

A28.2.2.6.1. Replace old gaskets with new gaskets and seals. Old gaskets may "set" and not reseal properly.

A28.2.2.6.2. Use the torque and closing instructions required by the applicable test report.

A28.2.2.6.3. Reclosure of drum is considered repacking and requires new shipper's certification.

A28.2.2.7. Overpacks.

A28.2.2.7.1. Outer packaging used as an "Overpack" (for ease of handling) may be opened for inspection of contents. Follow inspection guidance for specific opening and closing of inside shipping containers according to A28.2.2.

A28.2.2.7.2. Close overpacks in a similar manner as received. A new shipper's declaration is not required.

A28.2.2.8. Non-Specification (strong outside) Packaging.

A28.2.2.8.1. Non-specification packaging may be opened for inspection.

A28.2.2.8.2. Close non-specification packaging in a similar manner as received. A new shipper's declaration is not required.

A28.2.2.9. UN Specification Jerricans.

A28.2.2.9.1. Caps may be removed for inspection.

A28.2.2.9.2. Re-secure cap (hand-tight) ensuring there is no "cross-threading." A new shipper's declaration is not required.

A28.2.2.10. Shrink Wrap Packages. Do not cut, tear, or remove stretch or shrink wrap to verify packaging. Reject shipments if stretch or shrink wrap is cut, torn, or damaged so that it would prevent packages containing liquid hazardous materials from tipping or becoming loose in flight, or for any package that would be a hazard during handling operations.

A28.2.3. Inner package inspection.

A28.2.3.1. Perform visual inspection. Do not rearrange inner packaging contents or configuration.

A28.2.3.2. Do not cut wraps or barrier material.

A28.2.3.3. Any change to the inner configuration is considered repacking and requires a new shipper's certification.

A28.2.4. **Exceptions** to inspection. Some item packaging requires specialized training for opening, interior inspection, and closure. Only individuals trained and qualified in these specialized areas are authorized to open the following packagings:

A28.2.4.1. Radioactive material

A28.2.4.2. Class 1 (ammunition and explosives)

A28.2.4.3. Etiological Agents or Infectious Substances

A28.2.4.4. Pressurized metal shipping containers or drums

A28.2.4.5. Material identified as "inhalation hazard"

A28.3. Inspection Checklist. Inspection activities establish programs that standardize the local inspection process and ensure continuous level of quality. Figure A28.1. provides a suggested checklist to use during the inspection process. Use DD Form 2133, *Joint Airlift Inspection Record/Checklist*, for all cargo, vehicles, equipment prepared per DTR 4500.9-R, Part III, *Mobility*, as required by DTR 4500.9-R, Part III, Appendix O, *Preparation Inspection of Equipment and Supplies and Joint Inspection (JI) Procedures for Military Airlift*.

Figure A28.1. Hazmat Inspection Checklist.

HAZMAT INSPECTION AND ACCEPTANCE CHECKLIST				TCN	
INSPECTION VALIDATION					
THIS SHIPMENT HAS BEEN INSPECTED AND		COMPLIES WITH ALL REGULATORY REQUIREMENTS	DOES NOT COMPLY WITH ALL REGULATORY REQUIREMENTS AS INDICATED		
DATE (YYYYMMDD)	INSPECTED BY (NAME)		DATE (YYYYMMDD)	CORRECTED BY (NAME)	
DATE (YYYYMMDD)	RE-INSPECTED BY (NAME)		CORRECTIVE ACTIONS CHECKED. SHIPMENT COMPLIES WITH ALL REGULATORY REQUIREMENTS.		
ENTER "X" TO IDENTIFY NONCOMPLIANCE. USE COMMENTS BLOCK TO PROVIDE ADDITIONAL DETAILS. CIRCLE "X" WHEN CORRECTIVE ACTION IS COMPLETED. SIGN INSPECTION VALIDATION BLOCK AND ATTACH TO SHIPPER'S DECLARATION FILED WITH STATION MANIFEST. THOSE ITEMS THAT APPLY ONLY TO RADIOACTIVE MATERIAL ARE IDENTIFIED BY AN "R." ADDITIONAL CHECKPOINTS ON THE REVERSE.					
SHIPPER'S DECLARATION			CARGO IDENTIFICATION (IF APPLICABLE) (CONTINUED)		
1. THREE ORIGINAL DOCUMENTS FOR EACH PROPER SHIPPING NAME (PSN) UNDER A SINGLE TCN (MAY VARY BASED ON AFMAN 24-204 AND/OR LOCAL IDP REQUIREMENTS)			33. CRYOGENICS VENTING REQUIREMENTS		
2. SHIPPER'S ADDRESS AND PHONE NUMBER			34. SECONDARY HAZARD PSN, CLASS OR DIVISION NET QUANTITY		
3. CONSIGNEE DODACC OR ADDRESS (OR WORLDWIDE MOBILITY)			35. HANDLING INSTRUCTIONS		
4. TRANSPORTATION CONTROL NUMBER (TCN)			36. OTHER		
5. AIRPORT OF DEPARTURE AND DESTINATION (OR WORLDWIDE MOBILITY)			PACKAGING--OUTER		
6. NAME AND TITLE OF PREPARER WITH SIGNATURE			37. CONTAINER SERVICEABLE; DAMAGE, LEAKAGE OR LOSS CONTENTS		
7. PLACE AND DATE MATERIAL CERTIFIED			38. APPROVED OUTER CONTAINER (IF REQUIRED)		
8. PEN AND INK CHANGES SIGNED			39. PACKAGE PERMITTED BY PACKAGING REFERENCE		
9. EMERGENCY RESPONSE NUMBER			40. OTHER		
10. OTHER			IF APPLICABLE		
CARGO IDENTIFICATION (NATURE & QUANTITY OF HAZMAT)			41. ULLAGE		
11. IDENTIFIES WHETHER PACKED WITHIN PASSENGER OR CARGO AIRCRAFT ONLY			42. UN SPECIFICATION OR POP CONTAINER MATCHES CORRESPONDING PACKING GROUP		
12. IDENTIFIES RADIOACTIVE OR NONRADIOACTIVE SHIPMENT			43. GROSS WEIGHT OF PACKAGE IS EQUAL TO OR LESS THAN TESTED WEIGHT INDICATED AS PART OF POP MARKING		
13. IDENTIFICATION NUMBER (UN, ID, NA)			44. SINGLE PACKAGE (CONTAINING A LIQUID) TESTED PRESSURE (KPA) AGREES WITH CONTAINER REQUIREMENTS		
14. PSN (WITH TECHNICAL NAME IF REQUIRED)			45. OTHER		
15. PRIMARY HAZARD CLASS OR DIVISION (COMPATIBILITY GROUP FOR EXPLOSIVES)			PACKAGING--INNER (IF INSPECTED AND APPLICABLE)		
16. SUBSIDIARY RISK CLASS OR DIVISION, IF ASSIGNED			46. ABSORBENT MATERIAL		
17. PACKAGING GROUP			47. LEAK OR ACID PROOF LINER		
18. NUMBER AND TYPE OF PACKAGES			48. INNER RECEPTACLE ORIENTATION		
19. NET QUANTITY PER PACKAGE (METRIC UNLESS EXCEPTED)			49. SECONDARY CLOSURE		
20. R--ACTIVITY PER PACKAGE GIVEN IN BECQUEREL SYSTEM			50. OTHER		
21. R--NAME AND SYMBOL OF MATERIAL			MARKING		
22. R--MATERIAL PHYSICAL AND CHEMICAL FORM			53. PSN AND IDENTIFICATION NUMBER		
23. PACKAGING PARAGRAPH (FROM ATTACHMENTS 5-13)			IF APPLICABLE		
A. "A3.1.7.3" USED WHEN PACKAGING SPECIFICATION CERTIFIED PACKAGE IS OVERPACKED TO MEET AIR ELIGIBILITY REQUIREMENTS IAW AFMAN 24-204, A17.1.3.			54. UN OR POP SPECIFICATION MARKING		
B. PACKAGING REFERENCE FROM ATTACHMENT 27 USED FOR EXPLOSIVES MEETING GRANDFATHER CLAUSE			55. "RQ"		
C. UNPACKAGED EXPLOSIVES AUTHORIZED IAW "A3.2"			56. "WASTE"		
24. DOT-E, COE,CAA OR OTHER APPROVED DOCUMENT USED AS CERTIFICATION REFERENCE (COPY ACCOMPANIES SHIPMENT)			57. "AIR ELIGIBLE" MARKING OR SYMBOL		
25. 49 CFR,IATA OR ICAO REFERENCE USED AS CERTIFICATION REFERENCE (IF MEETING PASSENGER RESTRICTIONS)			58. "OVERPACKS" IDENTIFIED		
26. R--CATEGORY OF RADIOACTIVE PACKAGE			59. "ORIENTATION ARROWS"		
27. R--TRANSPORT INDEX			60. LIMITED QUANTITY IDENTIFIED		
IF APPLICABLE			61. "INSIDE CONTAINERS COMPLY WITH PRESCRIBED SPECIFICATIONS"		
28. "RQ" IDENTIFIES A PSN AS HAZARDOUS SUBSTANCE			62. DOT SPECIAL PERMIT (WHEN USED AS CERTIFICATION REFERENCE)		
29. "WASTE" IF MARKED OR LABELED			63. COE NUMBER (WHEN USED AS CERTIFICATION REFERENCE)		
30. "INHALATION HAZARD (ZONE)" (IF MATERIAL MEETS THIS DEFINITION)			64. CAA NUMBER (IF REQUIRED BY CAA)		
31. IF OVERPACKED, THE WORDS "OVERPACK USED"			65. FLASHPOINT (FOR FLAMMABLE LIQUIDS)		
32. "LIMITED QUANTITY" OR "LTD QTY"			66. NSN (OR PART NUMBER) FOR EXPLOSIVES		
			67. OTHER		

ENTER "X" TO IDENTIFY NONCOMPLIANCE. USE COMMENTS BLOCK TO PROVIDE ADDITIONAL DETAILS. CIRCLE "X" WHEN CORRECTIVE ACTION IS COMPLETED. SIGN INSPECTION VALIDATION BLOCK AND ATTACH TO SHIPPER'S DECLARATION FILED WITH STATION MANIFEST.	
THOSE ITEMS THAT APPLY ONLY TO RADIOACTIVE MATERIAL ARE IDENTIFIED BY AN "R"	
LABELING	
68. PRIMARY RISK LABEL	
69. R-RADIOACTIVE MATERIAL LABELS ON OPPOSITE SIDES OF PACKAGE	
IF APPLICABLE	
70. SUBSIDIARY RISK LABELS	
71. "CARGO AIRCRAFT ONLY" (NOT MANDATORY FOR MOBILITY SHIPMENTS, SEE AFMAN 24-204, A17.3.5. FOR MORE INFORMATION)	
72. "MAGNETIZED MATERIAL"	
73. "EMPTY"	
74. OTHER	
VEHICLES AND EQUIPMENT	
75. FUEL GAUGE OPERATIVE OR DIP STICK AVAILABLE	
76. VEHICLES/SELF-PROPELLED EQUIPMENT W/FUEL QTY NOT EXCEEDING 1/2 TANK (MAY EXCEED WHEN AUTHORIZED, REFERENCE AFMAN 24-204)	
77. SUPPORT EQUIPMENT DRAINED	
78. NO EXISTING FUEL LEAKS	
79. ALL ADDITIONAL HAZARDS IDENTIFIED (SEE BLOCK 36)	
80. SECONDARY LOADS CERTIFIED, PACKAGED AND MARKED	
81. BULK FLAMMABLE LIQUID FUEL TANKS DRAINED OR PURGED AS REQUIRED	
82. SPARE FUEL IN AUTHORIZED CONTAINERS	
83. BATTERY POSTS PROTECTED	
84. FIRE EXTINGUISHERS IN APPROVED HOLDER	
85. OTHER	
86. COMMENTS/REASON(S) FOR FRUSTRATION	
OPENED FOR INSPECTION: <input type="checkbox"/> YES <input type="checkbox"/> NO	OPTIONAL USE
	87. PCS:
	88. WT:
	89. CUBE: