MIL-STD-1325-149 MILITARY STANDARD (NAVY) CARLOADING 24 APRIL 1973 GUIDED WEAPON MK 5 & MODS (WALLEYE) SUPERSEDING IN CONTAINER CNU-154 A/E OR CNU-154 B/E WR-52/149 23 MAY 1972 CONTAINER DATA CNU-154 A/E CNU-154 B/E WEIGHT, EMPTY 650 LBS. 610 LBS. 2910 I BS 172 L x 28-3/4 W x 32-21/32 H 32-11/32 93.5 CU.FT. DOT HAZARD CLASSIFICATION EXPLOSIVES A EXPLOSIVES A INDEX ITEM PAGE GENERAL NOTES 2 42'-6" FLATCAR, COML 2.3.4.586 NOTES: 1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. FOR CROSS REFERENCE TO ASSOCIATED PALLETIZING, TRUCKLOADING AND CONTAINERLOADING MILITARY STANDARDS, REFER TO INDEX TO STANDARDS MIL-HDBK-*U.S. GOVERNMENT PRINTING OFFICE: 1981-703-023/6697 236 (NAVY). APPROVED BY BUREAU OF EXPLOSIVES **AUTHORIZED AND RELEASED** FOR GENERAL USE -h.J. MILITARY ASSISTANT 4/13/23 SIGNATURE DATE 417/73 K Bude ORIGINATOR NWHL 4/18/13 SIGNATURE TECHNICAL DIRECTION AGENT (TDA) SIGNATURE DATE NAVAL WEAPONS HANDLING LABORATORY

N A D EARLE, NEW JERSEY

PAGE 1 OF 6

4/18, 73 SIGNATURE (AIR) SYSCOM, BY DIRECTION DATE

MIL-STD-1325-149 (NAVY)

GENERAL NOTES

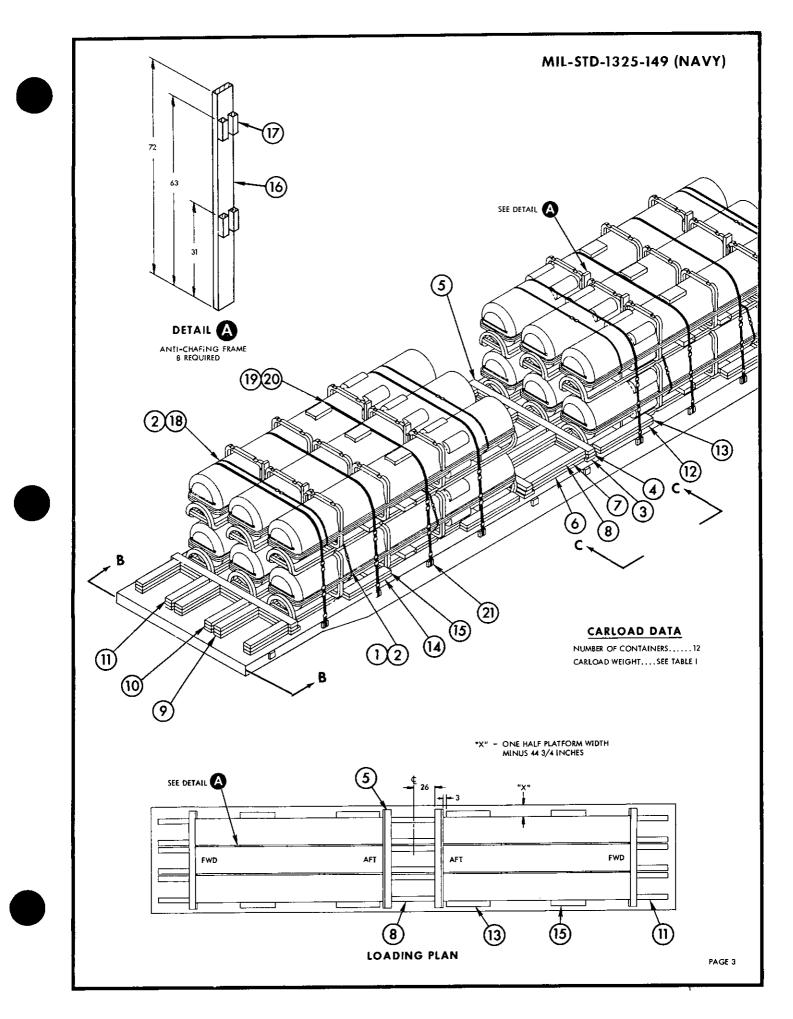
- FOR GENERAL INFORMATION CONCERNING ORDERING, INSPECTING, AND PREPARING CARS, AND FOR DUNNAGING MATERIALS, DESIGN, AND INSTALLATION OF DUNNAGE SEE THE GENERAL DOCUMENT. MIL-STD-1325 (NAVY) "RAILCAR LOADING OF HAZARDOUS MATERIALS".
- 2. WHEN PLANNING SHIPMENTS ORDER THE MINIMUM NUMBER OF CARS OF THE CAPACITY REQUIRED FOR THE SHIPMENT.
- 3. LOADING PLANS SHOWN ARE FOR A FLATCAR WITH A PLATFORM 42 FT 6 'NCHES LONG AND 9 FT 0 INCHES WIDE WITH STAKE POCKETS SPACED 42 INCHES ON CENTERS. FLATCARS WITH STEEL FLOOR ENDS AND OR EXPOSED STEEL BOLSTERS SHALL NOT BE USED.
- 4. THE "LOAD LIMIT" OF A CAR MUST NOT BE EXCEEDED NOR SHOULD THE RAILCAR BE LOADED SO THAT MORE THAN ONE-HALF OF THE "LOAD LIMIT" IS CARRIED BY ONE SET OF TRUCKS.
- 5. THE LOAD CONSISTS OF GUIDED WEAPONS MK 5 AND MODS (WALLEYE) IN EITHER CNU-154 A/E OR CNU-154 B/E CONTAINER.
- 6. THE CONTAINERS ARE HANDLED AND LOADED WITH A FORK LIFT TRUCK OR A SUITABLE HOISTING DEVICE EQUIPPED WITH A SUITABLE FOUR LEG BRIDLE.
- 7. UNLESS OTHERWISE SPECIFIED NAILING SHALL BE IN ACCORDANCE WITH MIL-STD-1325 (NAVY).
- 8. APPLICABLE MATERIAL SPECIFICATIONS:
 - DUNNAGE LUMBER FED. SPEC MM-L-75
 - NAILS FED, SPEC FF-N-105
 - STRAPPING FED. SPEC QQ-S-781, TYPE 1, HEAVY DUTY, CLASS A, DRY (UNLUBRICATED).
 - SEALS FED. SPEC QQ-S-781, STYLE III, HEAVY DUTY
- 9. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED ATTACH SHIPPING DOCUMENTS IN AN ACCESSIBLE AREA AND ATTACH APPLICABLE PLACARDS TO THE CAR AS PRESCRIBED IN OP 2165 (VOL. 1).

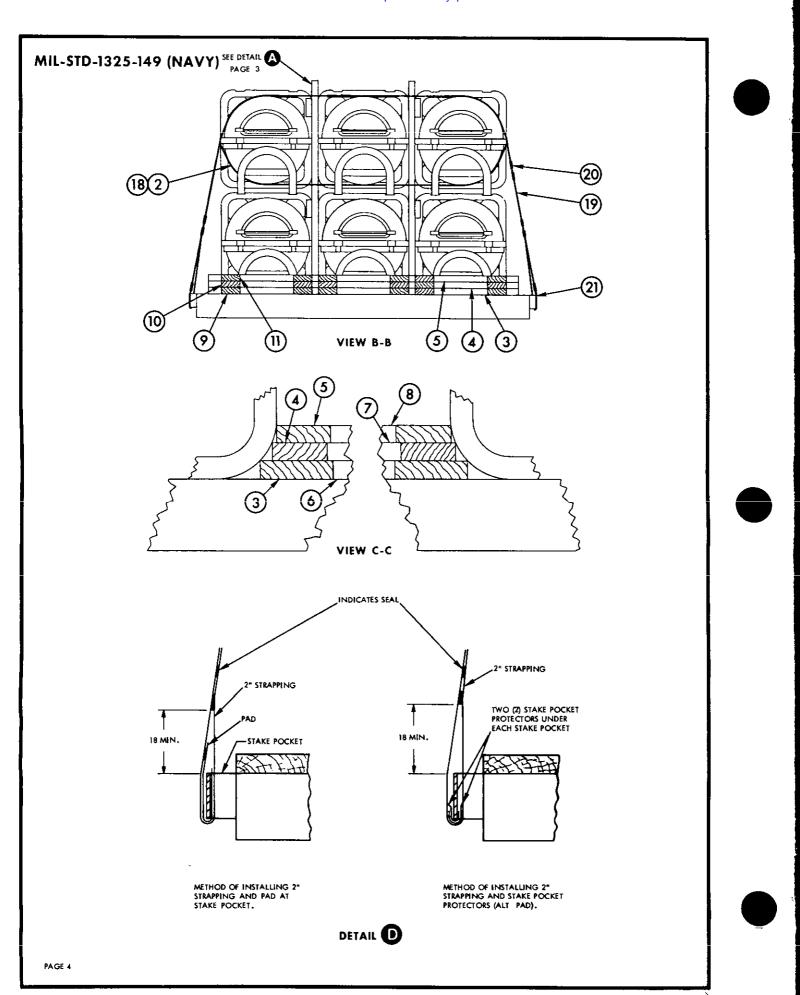
42 FT 6 IN. FLATCAR, COMMERCIAL

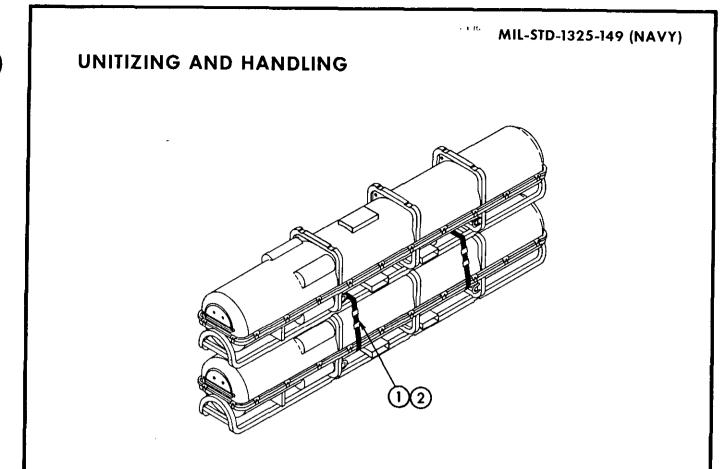
- 1. THE CARLOAD CONSISTS OF I2 CONTAINERS (2 STACKS OF 3 ROWS 2 LAYERS). THE CONTAINERS MAY BE EITHER THE CNU-154 A/E OR CNU-154 B/E TYPE, HOWEVER EACH LAYER OF EITHER STACK MUST BE OF LIKE CONTAINERS.
- 2. WHEN LESS THAN CARLOAD (LCL) QUANTITIES ARE REQUIRED TO BE SHIPPED ON COMMERCIAL FLATCARS, THE PROCEDURES OUTLINED ON PAGE 6 SHALL BE FOLLOWED. THE WEIGHT DISTRIBUTION REQUIREMENTS OF THE AAR MUST BE COMPLIED WITH, SEE MIL-STD-1325 (NAVY).
- 3. CONTAINERS SHALL BE STACKED TWO HIGH AND STRAPPED TOGETHER AS DESCRIBED ON PAGE 5.
- 4. AS ROWS ARE PLACED AGAINST EACH OTHER, PLACE TWO ANTI-CHAFING FRAMES, DETAIL A, BETWEEN CONTAINERS. ANTI-CHAFING FRAMES ARE POSITIONED VERTICALLY WITH THE CLEATS STRADDLING THE CONTAINER STACKING RINGS.
- 5. STRAP THE TOP LAYER OF EACH STACK OF CONTAINERS TOGETHER WITH TWO BANDS OF STEEL STRAPPING (PIECE 18), POSITIONED AS SHOWN, AND SECURE WITH TWO DOUBLE CRIMPED SEALS (PIECE 2) PER BAND.

 6. STRAP THE LOAD TO THE CAR WITH FOUR BANDS OF STEEL STRAPPING OVER EACH GROUP OF 6 CONTAINERS, POSITIONED AS SHOWN. TENSION AND SECURE TIE-DOWN STRAPPING TO THE CAR AS FOLLOWS: CUT STRAPPING (PIECE 19) IN TWO SECTIONS TO ALLOW TENSIONING IN A DESIRABLE AREA. THREAD ONE END OF ONE SECTION OF STRAP THROUGH STAKE POCKET ON ONE SIDE OF CAR, SEAL STAKE POCKET PAD (PIECE 21) IN PLACE, SEE DETAIL D, PAGE 4. SECURE THIS END WITH TWO DOUBLE CRIMPED SEALS (PIECE 20) AND BRING STRAP OVER THE LOAD. SECURE OTHER SECTION OF STRAP TO STAKE POCKET ON 			21	STAKE POCKET PAD	2 x .050 x 24	16	-	-	-	
			20	SEAL	2	64	-	-	-	
			19	TIE-DOWN STRAPPING	2 × .050 × 28 FT	8	-	-	-	
			18	CROSS STRAPPING	1 1/4 x .035 x 21 FT 6	4	-	-	-	
			17	CLEAT	2 × 2 × 6	32	16	2 PER JOINT	10 .	
			16	ANTI-CHAFING MEMBER	2 × 6 × 72	8	SEE 17	-	-	
			15	SIDE BLOCKING	2 × 6 × 34	4	14	5	30d	
			14	SIDE BLOCKING	2 x 6 x 34	4	CAR FLOOR	5	30d	
			13	SIDE BLOCKING	2 x 6 x 42	4	12	6	30d	
			12	SIDE BLOCKING	2 x 6 x 42	4	CAR FLOOR	6	30d	
OPPOSITE SIDE IN A SIMILAR MANNER, THEN			13	END BLOCKING	2 x 6 x 30	12	10	5	60d	
TENSION AND SEAL THE ENDS OF THE TWO SECTIONS TOGETHER WITH TWO DOUBLE CRIMPED SEALS. 7. AS AN ALTERNATE, TWO COMMERICAL STAKE POCKET PROTECTORS MAY BE USED UNDER EACH STAKE POCKET IN PLACE OF STAKE POCKET PAD (PIECE 21), SEE DETAIL D. TABLE I			10	END BLOCKING	2 x 6 x 30	12	9	5	604	
			9	END BLOCKING	2 x 6 x 30	12	CAR FLOOR	5	30d	
			8	INTERMEDIATE BLOCKING	2 x 6 x 52 REF	6	.2	7	60d	
			7	INTERMEDIATE BLOCKING	2 x 6 x 52 REF	6	6	7	60d	
			6		2 x 6 x 52	6	CAR FLOOR	7	30d	
			5	CROSS MEMBER	2 x 6 x 96	4	4	1 EVERY 8 INCHES	60d	
			4	CROSS MEMBER	2 x 6 x 96	4	3	1 EVERY 8 INCHES	60d	
		3	CROSS MEMBER	2 × 8 × 96	4	CAR FLOOR	1 EVERY 8 INCHES	30d		
CONTAINER	LOADED CONTAINER WEIGHT (LBS.)	CARLOAD WT. (LBS.)	2	SEAL	1 1/4	32	-	-	-	
CNU-154 A/E	2950	36,268	1	VERTICAL STRAPPING	1 1/4 x .035 x 11 FT 6	12	-	-	-	
CNU-154 B/E	2910	35,788	PLECE	DESCRIPTION	SIZE	NO. OF PIECES	NAIL	NUMBER	SIZE	
		NO.			REQ'D	TO	NAI	ILS		
ESTIMATED WEIGHT OF DUNNAGE (868 LBS.) LINCLUDED IN CARLOAD WEIGHT.				LIST OF MATERIALS & NAILING DATA						









CONTAINER UNITIZING AND BANDING PROCEDURE:

- 1. USING FORK LIFT TRUCK OR A SUITABLE HOISTING DEVICE EQUIPPED WITH A SUITABLE FOUR LEG BRIDLE, STACK CONTAINERS TWO HIGH.
- 2. BE CERTAIN THAT NESTING FEATURES AND BEARING SURFACES ARE PROPERLY POSITIONED TO PREVENT SHIFTING IN LATERAL AND LONGITUDINAL DIRECTIONS.
- 3. SECURE BOTTOM CONTAINER TO TOP CONTAINER WITH TWO STRAPS (PIECE 1) POSITIONED AS INDICATED ABOVE.
- 4. SEAL WITH TWO SEALS (PIECE 2) EACH STRAP AND DOUBLE CRIMP.

CONTAINER HANDLING PROCEDURE:

 UNITIZED CONTAINERS CNU-154 A/E OR CNU-154 B/E FOR GUIDED WEAPON MK 5 & MODS (WALLEYE) ARE HANDLED AND POSITIONED ON FLAT CARS WITH A FORK LIFT TRUCK. IF NECESSARY CONTAINERS MAY BE LOADED ON FLAT CAR ONE AT A TIME USING A SUITABLE HOISTING DEVICE EQUIPPED WITH A SUITABLE FOUR LEG BRIDLE, AND UNITIZED IN POSITION.

WARNING

TO AVOID TOPPLING SPECIAL CARE SHOULD BE TAKEN WHEN MOVING STACKS OF CON-TAINERS. THE UNITIZING OF THE CONTAINERS IS ONLY AUTHORIZED AS PART OF THE CARLOADING PROCEDURE. UNITIZING IS TO ENSURE CONTINUOUS ENGAGEMENT OF THE STACKING FEATURES AND MOVEMENT OF UNITIZED CONTAINERS SHOULD BE LIMITED TO THAT NECESSARY TO LOAD OR UNLOAD THE FLAT CAR.



