NOTICE OF VALIDATION

INCH-POUND
MIL-STD-1325/144(OS)
NOTICE 1
1 March 1989

### MILITARY SPECIFICATION

RAILCAR LOADING OF HAZARDOUS MATERIALS
DISPENSER AND BOMB, AIRCRAFT CBU-59/B, COMPLETE (APAM) OR
DISPENSER AND BOMB, AIRCRAFT CBU-59(T-1)/B TRAINING IN
CONTAINER MK 427 MOD 0 FLEET ISSUE UNIT LOAD

MIL-STD-1325/144(OS) dated 05 APR.1976, has been reviewed and determined to be valid for use in acquisition.

Preparing Activity: Navy - OS

AMSC N/A

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### **MILITARY STANDARD**

MIL-STD-1325-144

(NAVY)

5 APRIL 1976

SUPERSEDING WR-52/144 8 FEBRUARY 1972

### RAILCAR LOADING OF HAZARDOUS MATERIALS

DISPENSER AND BOMB, AIRCRAFT CBU-59/B, COMPLETE (APAM) OR DISPENSER AND BOMB, AIRCRAFT CBU-59(T-1)/B TRAINING IN CONTAINER MK 427 MOD 0

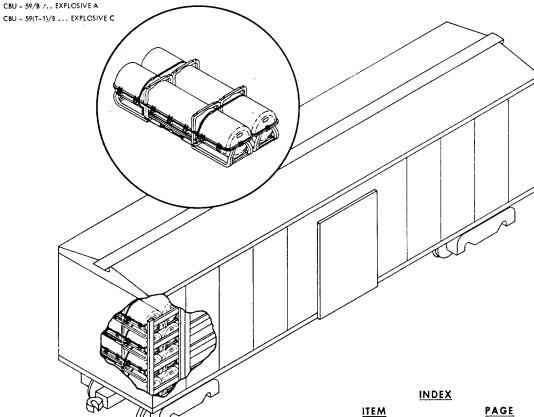
FLEET ISSUE UNIT LOAD

#### UNIT LOAD DATA

UNIT LOAD DRAWING ..... WR-54/215 WEIGHT ..... 2300 LBS. DIMENSIONS ..... 102 17/32 L X 46 5/16 W X 25 31/32 H STACKING HEIGHT 25 17/32 CUBE ..... 71.4 CU. FT.

DOT HAZARD CLASSIFICATION ......

CBU - 59/B :.. EXPLOSIVE A



- 1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
- FOR CROSS-REFERENCE TO ASSOCIATED PALLETIZING, TRUCK-LOADING AND CONTAINERLOADING MILITARY STANDARDS, REFER TO INDEX TO STANDARDS MIL-HDBK-236 (NAVY).

ITEM GENERAL NOTES

50' 6" CARLOAD, COM'L

DODX CARLOAD

2 & 3 4.5 & 6

FSC 8140

## **AUTHORIZED AND RELEASED FOR GENERAL USE**

NWHL TECHERICAL DIRECTION AGENT (TDA) AN SYSCOM, BY DIRECTION

APPROVED BY BUR	EAU OF	EXPL	<b>DSIVES</b>
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SUPERVISOR, MILITARY AND INTERMODAL SERVICES SIGNATURE

**ORIGINATOR** 

Mc/Bude 3/30/76 SIGNATURE

NAVAL WEAPONS HANDLING LABORATORY

WPNSTA EARLE, NEW JERSEY

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#### MIL-STD-1325-144 (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".
- WHEN PLANNING SHIPMENTS ORDER THE MINIMUM NUMBER OF CARS OF THE CAPACITY REQUIRED FOR THE SHIPMENT.
   DODX UTILITY LOADER CARS SHALL NOT BE USED FOR ITEMS WITH EXPLOSIVES A OR B HAZARD CLASSIFICATION.
- LOADING PLANS SHOWN ARE FOR DODX UTILITY LOADER CAR WITH 50 FT 6 IN INSIDE LENGTH, 107 3/4 IN INSIDE
  WIDTH BETWEEN RAILS (111 IN INSIDE WIDTH BETWEEN SIDE WALLS), AND COMMERCIAL BOXCARS WITH 50 FT 6 IN
  INSIDE LENGTH. 110 IN INSIDE WIDTH.
- 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. IF END WALLS OF CARS ARE NOT SQUARE THEY MUST BE SQUARED OFF BEFORE STARTING TO LOAD CAR.
- 6. THE LOAD CONSISTS OF AIRCRAFT DISPENSER AND BOMB, CBU-59/B, COMPLETE (APAM) OR AIRCRAFT DISPENSER AND BOMB, CBU-59/T-1)/B, TRAINING IN CONTAINER MK 427 MOD 0. THE CONTAINERS ARE UNITIZED TWO TO A UNIT LOAD AS SHOWN IN WR-54/215.
- 7. THE UNIT LOADS ARE HANDLED AND LOADED WITH A SUITABLE FORK LIFT TRUCK.
- 8. UNLESS OTHERWISE SPECIFIED NAILING SHALL BE IN ACCORDANCE WITH MIL-STD-1325 (NAVY).
- 9. APPLICABLE MATERIAL SPECIFICATIONS:

DUNNAGE LUMBER - FED. SPEC MM-L-751

NAILS - FED. SPEC FF-N-105

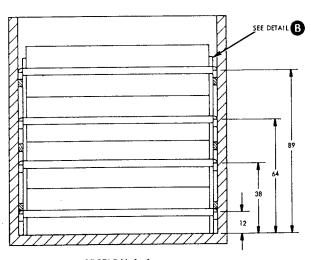
STRAPPING - FED. SPEC QQ-S-781, TYPE 1, HEAVY DUTY, CLASS A

SEALS - FED. SPEC QQ-5-781, STYLE III, HEAVY DUTY

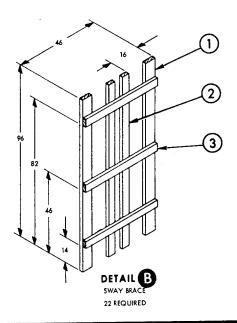
10. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED ATTACH SHIPPING DOCUMENTS INSIDE THE CAR IN AN ACCESSIBLE
AREA, CLOSE AND SEAL BOXCAR DOORS, AND ATTACH APPLICABLE PLACARDS TO THE OUTSIDE OF CAR AS PRESCRIBED IN
OP 2165 (VOL. 1)

## 50 FT 6 IN BOXCAR, DODX

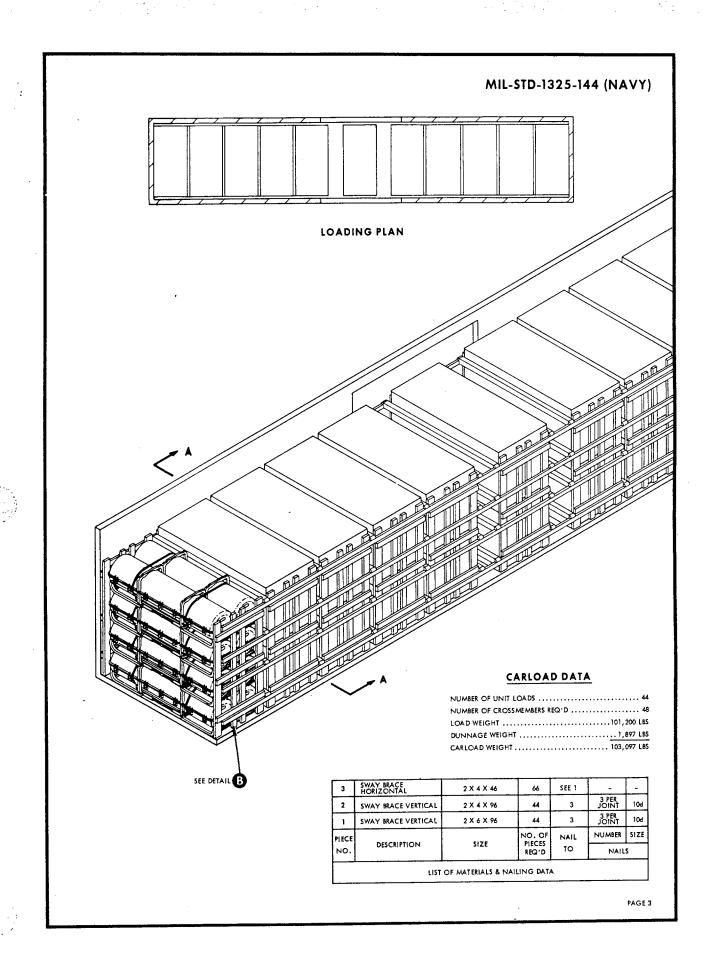
- THE CARLOAD CONSISTS OF 44 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS
  PROCEDURAL DRAWING.
- 2. A DETAILED DESCRIPTION AND OPERATING INSTRUCTIONS FOR THE UTILITY LOADER ARE CONTAINED IN OP 1750.
- TO PREVENT UNUSED "DF" EQUIPMENT FROM BECOMING DISLODGED DURING TRANSIT OF DODX CARS SECURE IT AT ANY LOCATION IN THE BOXCAR WHICH WILL NOT INTERFERE WITH UNLOADING.
- 4. WHEN LESS THAN CARLOAD (LCL) QUANTITIES ARE REQUIRED TO BE SHIPPED IN DODX BOXCARS THE SAME PROCEDURES AND METHODS OF BLOCKING ARE APPLICABLE. ANY BAYS OR PORTION THEREOF MAY BE USED PROVIDING THE WEIGHT DISTRIBUTION REQUIREMENTS OF THE AAR ARE COMPLIED WITH (SEE MIL-STD-1325 (NAVY). EACH CROSSMEMBER WILL BE USED IN SUCH A MANNER THAT IT WILL RETAIN NOT MORE THAN 2400 LBS OF THE LADING.







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## MIL-STD-1325-144 (NAVY)

# 50 FT 6 IN BOXCAR, COMMERCIAL

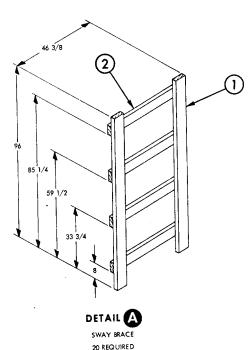
- 1. THE CARLOAD CONSISTS OF 48 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS PROCEDURAL
- 2. WHEN LESS THAN CARLOAD (LCL) QUANTITIES ARE REQUIRED TO BE SHIPPED IN COMMERCIAL BOXCARS AND A PARTIAL LAYER RESULTS, THE PARTIAL LAYER OF LADING SHALL BE BRACED BY MEANS OF END BRACING AND/OR PARTIAL LAYER BRACING CONSTRUCTED IN ACCORDANCE WITH MIL-STD-1325-100 (NAVY) OR PARTIAL UPPER LAYER BRACING IN ACCORDANCE WITH MIL-STD-1325-102 (NAVY). SELECT THE TYPE OF BRACE TO COMPLY WITH THE WEIGHT OF THE UNITS TO BE RETAINED. THE WEIGHT DISTRIBUTION REQUIREMENTS OF THE AAR MUST BE COMPLIED WITH, SEE MIL-STD-1325 (NAVY).
- 3. THE LOADS AS SHOWN ARE BASED ON CARS WHICH HAVE 10 FT WIDE DOORWAY OPENINGS AND ARE EQUIPPED WITH CONVENTIONAL SLIDING TYPE DOORS. THE DEPICTED PROCEDURES AND METHODS OF BLOCKING ARE APPLICABLE TO BOXCARS EQUIPPED WITH CONVENTIONAL SLIDING TYPE DOORS OTHER THAN 10 FT WIDE.
- 4. THE DEPICTED PROCEDURES AND METHODS OF BLOCKING ARE ALSO APPLICABLE TO BOXCARS EQUIPPED WITH PLUG TYPE DOORS.

  STACKS WITH MORE THAN HALF OF THE UNIT LOAD IN THE DOORWAY AREA MUST HAVE THE SWAY BRACE EACH SIDE OF THE

  STACK SECURED TO THE STACK WITH TWO LATERALLY APPLIED 1 1/4 IN. STEEL STRAPS PER STACK, EACH TENSIONED AND SEALED

  WITH TWO DOUBLE CRIMPED SEALS. IF THE CAR FLOOR IS NOT A NAILABLE FLOOR DOORWAY PROTECTION AS PER MIL-STD
  1325 (NAVY) IS REQUIRED. CLOSE DOORS SECURELY AND WIRE TOGETHER WITH A FLEXIBLE STRONG STEEL WIRE INSERTED THROUGH

  THE HOLES IN THE DOOR LATCH ASSEMBLY ONE OR MORE TIMES AND THE WIRE ENDS TWISTED TOGETHER.
- 5. WHEN BOXCARS WIDER THAN 9 FT 2 IN ARE USED, INCREASE THE THICKNESS OF PIECE 1 BY LAMINATING AN APPROPRIATLY
  THICK PIECE TO IT. IF THE WIDTH OF BOXCARS USED IS LESS THAN 9 FT 2 IN DECREASE THE THICKNESS OF PIECE 1 AS NECESSARY.



- \* 2 X 6 STRUTS DOUBLED AND LAMINATED WITH 10d NAILS MAY BE SUBSTITUTED IN PLACE OF 4 X 4 1.
- \*\* WHEN BOXCAR HAS A NON-NAILABLE FLOOR DOORWAY PROTECTION AS PER MIL-STD-1325 (NAVY) IS REQUIRED.

NO.	DESCRIPTION	SIZE	PIECES REQ'D		NAILS	
) PIECE	VERTICAL		NO. OF		NUMBER	SIZ
2	HORIZONTAL SWAY BRACE	2 X 6 X 46 3/8	80 40	SEE 2	JOINT	-
3	SEPARATOR GATE VERTICAL SWAY BRACE	2 X 6 X 102 1/2	10	1	JOINT 3 PER	104
4	SEPARATOR GATE HORIZONTAL	2 X 6 X CAR WIDTH -1	4	SEE 3	3 PER	-
5	SLEEPER	2 X 6 X 96	2	FLOOR	FOOT	16d
6	SLEEPER	2 X 6 X 96	2	5 CAR **	1 PER FOOT	16d
7	VERTICAL STRAP	1 1/4 X .035 X 13 FT	12		-	<u> -</u>
8	LATERAL STRAP	1 1/4 X .035 X 21 FT	2			-
,	SEAL	1 1/4	28		-	-
10	CENTER GATE HORIZONTAL	2 X 6 X CAR WIDTH -1	В	11	3 PER JOINT	104
11	CENTER GATE VERTICAL	2 X 6 X 102 1/2	10	SEE 10	<u> </u>	-
12	CENTER GATE STRUT CLEAT	2 X 4 X CAR WIDTH - 1	8	11	3 PER JOINT	104
13	STRUT	4 X 4 X WEDGE FIT *	20	13	2 PER JOINT	16d
14	CENTER GATE	2 X 3	2	11	2 PER JOINT	108

