

**MILITARY STANDARD**

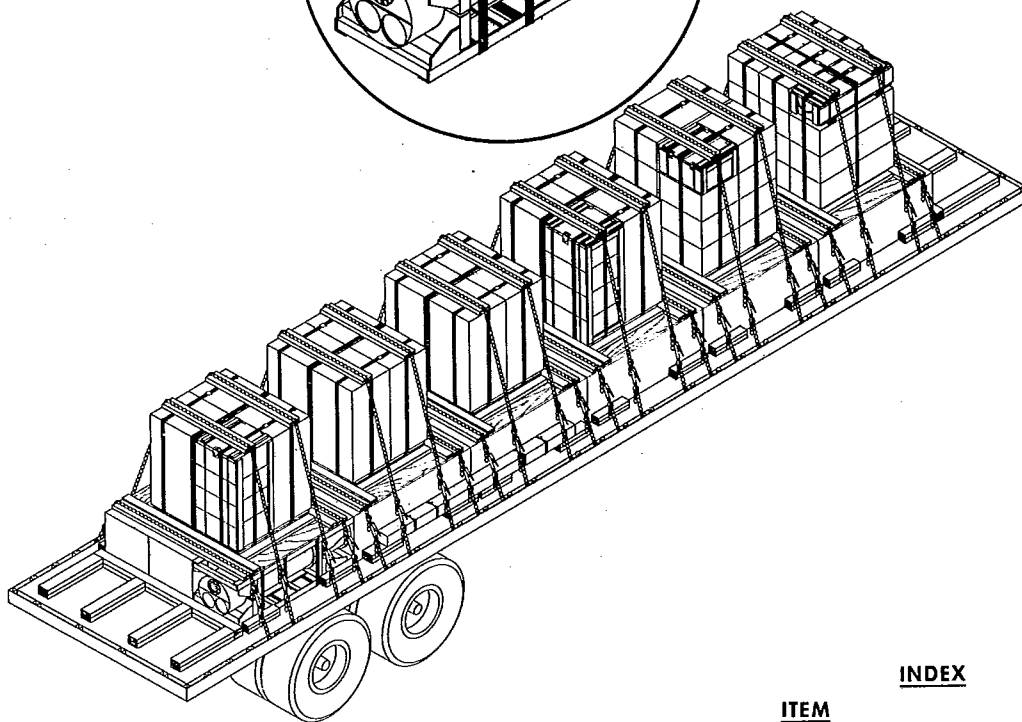
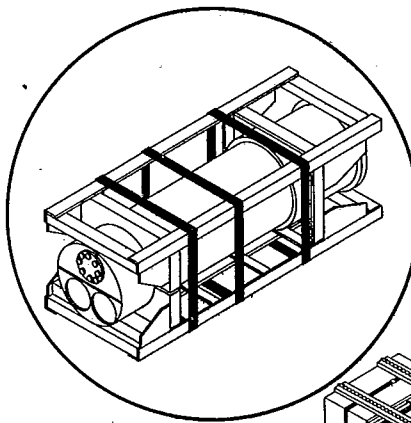
**MIL-STD-1320-168  
(NAVY)**

**TRUCKLOADING OF HAZARDOUS MATERIALS  
MINE, UNDERWATER MK 52 IN CRATE MK 52 MOD 0  
"CONFIGURATION B" SUB ASSEMBLY  
WITH ASSOCIATED FLIGHT GEAR**

31 OCTOBER 1975

**LOAD DATA**

SEE TABLE I  
(PAGE 2)



**NOTES:**

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

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**FSC 8140**

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ONLY.**

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SIGNATURE TECHNICAL DIRECTION AGENT (TDA) DATE

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SIGNATURE SEA SYSTEM, BY DIRECTION DATE

**ORIGINATOR**

*J.P. Deane*  
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**NAVAL WEAPONS HANDLING LABORATORY  
WPNSA EARLE, NEW JERSEY**

PAGE 1 OF 5

## MIL-STD-1320-168 (NAVY)

## GENERAL NOTES

1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR TRUCKLOADING THE MK 52 MOD G UNDERWATER MINE, CONFIGURATION B", IN CRATE MK 52 MOD O, SIX DOMESTIC UNIT LOADS OF RELATED FLIGHT GEAR AND ONE WOOD BOX OF ARMING WIRES, (SEE TABLE I, BELOW).

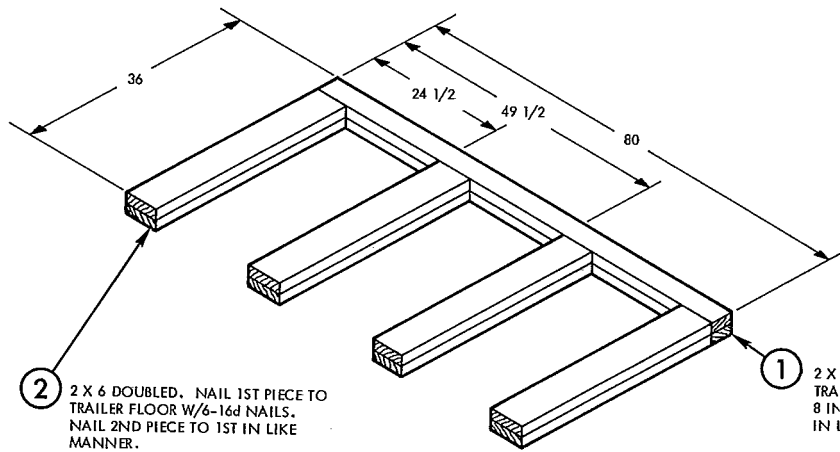
**NOTE**

THE FLIGHT GEAR SHALL BE PALLETIZING IN ACCORDANCE WITH THE PALLETIZING WR'S LISTED IN TABLE I. THE UNIT LOADS OF FLIGHT GEAR MAY BE OMITTED FROM THE TRUCKLOAD OR ANY COMBINATION OF FLIGHT GEAR UNIT LOADS MAY BE LOADED.

2. THE PROCEDURES AND PRACTICES DESCRIBED HEREIN ARE INTENDED FOR 40 FT FLATBED TRAILERS, WITH THE TRAILERS' TANDEM AXLES LOCATED IN THE "WESTERN POSITION" (AT THE EXTREME REAR OF THE TRAILER). DO NOT USE TRAILERS WITH METAL FLOORS.
3. THE MINES ONLY SHALL BE COVERED WITH A FIRE RESISTANT, WATERPROOF TARPULIN. MINES SHALL BE COVERED WITH THE TARPULIN PRIOR TO APPLYING THE TIE-DOWN CHAINS. PROTECTOR BOARDS SHALL BE USED BETWEEN THE TARPULIN AND THE CHAINS. TARPULINS ARE NOT REQUIRED FOR THE FLIGHT GEAR. THE LOAD SHOWN ON PAGE 3 HAS HAD THE TARPULIN OMITTED FOR CLARITY.
4. THE UNIT LOADS IN THE SECOND LAYER SHALL BE POSITIONED ON A PALLET BASE, SEE DETAIL D. THE PALLET BASE IS POSITIONED ON TOP OF THE TARPULIN COVERED MINES AND LOCATED SO THAT IT RESTS OVER THE MINES CRATE TOP OUTER TWO CROSSMEMBERS.
5. CHAINS AND LOAD BINDERS SHALL BE USED FOR TIEDOWNS TO SECURE THE LOAD TO THE TRAILER AND THEY SHALL MEET THE FOLLOWING REQUIREMENTS.
- A. CHAINS AND FITTINGS SHALL BE 3/8 INCH AND LOAD BINDERS 3/8 INCH CAPACITY.
- B. CHAINS, FITTINGS AND LOAD BINDERS SHALL HAVE A MINIMUM SAFE WORKING LOAD OF 5000 LBS.
- C. "LEBUS" TYPE LOAD BINDERS SHALL BE SAFETY WIRED WITH 16 GAUGE SOFT ANNEALED IRON WIRE OR SECURED USING THE END PIECE OF THE 3/8 CHAIN.
6. PRIOR TO LOADING THE TRAILER AND DURING PRELOADING INSPECTION REQUIRED BY NAVWEPs OP 2165 AND REPORTED ON DD FORM 626. THE CHAINS, FITTINGS AND LOAD BINDERS SHALL BE INSPECTED FOR STRETCH, GOUGING, BENT LINKS, WEAR AND ANY OTHER NOTICEABLE DEFECTS. THE INSPECTOR SHALL CONFIRM THAT THE CHAINS AND LOAD BINDERS HAVE BEEN INSPECTED AND SHALL SO NOTE ON ITEM NO. 22 OF DD FORM 626. ANY DEFICIENCY SHALL BE CAUSE FOR A REJECTION OF A CHAIN OR LOAD BINDER.
7. THE LADING SHALL BE PROTECTED FROM CHAIN DAMAGE WHERE THE CHAIN GOES OVER THE MINE CRATE AND THE UNIT LOADS BY INSERTING A 2 X 6 BETWEEN THE CHAIN AND THE UNIT LOAD.
8. THE MAXIMUM GROSS WEIGHT OF THE TRACTOR-TRAILER AND THE ALLOWABLE AXLE WEIGHTS ARE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THESE LIMITATIONS AND THE SHIPPER SHALL LOAD THE TRAILER IN SUCH A MANNER THAT THE TRACTOR TRAILER WILL NOT EXCEED THESE LIMITATIONS.
9. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS TO DUNNAGE IN AN ACCESSIBLE AREA AND ATTACH PLACARD "EXPLOSIVES A" TO BOTH SIDES, FRONT AND BACK OF TRAILER.
10. APPLICABLE MATERIAL SPECIFICATIONS. DUNNAGE LUMBER; MM-L-751. NAILS; FF-N-105; TYPE II, STYLE 10, COMMON BRIGHT. STRAPPING; QQ-S-781, TYPE I, CLASS A. PLYWOOD; COMMERCIAL STANDARD CS45, GRADE EXTERIOR C-C.
11. FOR GENERAL TRUCKLOADING PROCEDURES REFER TO THE GENERAL TRUCKLOADING DOCUMENT MIL-STD-1320 (NAVY).

TABLE I

"CONFIGURATION B" MINE, UNDERWATER; MK 52					
UNIT LOAD TITLE & DOCUMENT NUMBER	NO. OF UNIT LOADS	WEIGHT OF ONE UNIT LOAD (APPROX)	DIMENSIONS OF UNIT LOAD	CUBE OF UNIT LOAD	DOT HAZARD CLASSIFICATION
UNDERWATER MINE, MK 55 - WR-53/715	18	1266 LBS	66 3/16L X 24 7/8W X 23 1/2H	22.4 CU FT	EXPLOSIVES A
FAIRING; MK 19 TYPE - WR-53/865	3	594 LBS	48L X 42 3/4W X 47H	55.8 CU FT	INERT
FIN, TAIL; MK 20 TYPE - WR-53/832	1	2048 LBS	52L X 44 1/2W X 56 1/2H	75.7 CU FT	INERT
PARAPAC ASSEMBLY; MK 35 TYPE - WR-53/824	1	1353 LBS	48 1/4L X 45 1/4W X 55 1/2H	70.1 CU FT	INERT
RELEASE MECHANISMS - WR-53/830	1	1350 LBS	49 1/2L X 43 1/2W X 52H	64.8 CU FT	INERT
ARMING WIRE; BOX, WOOD	1	39 LBS	108L X 5 1/2W X 5 1/2H	1.9 CU FT	INERT

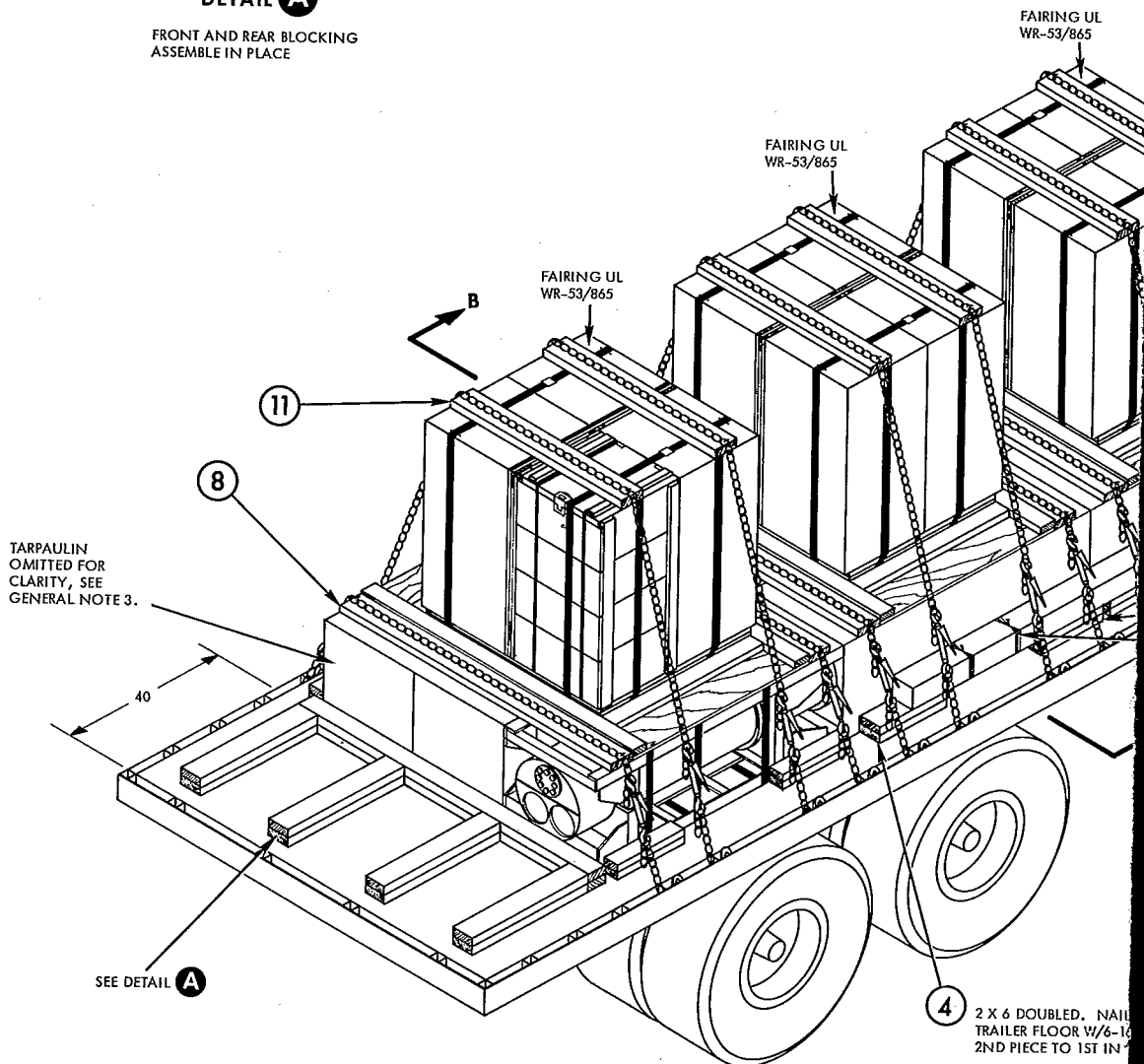


② 2 X 6 DOUBLED. NAIL 1ST PIECE TO TRAILER FLOOR W/6-16d NAILS. NAIL 2ND PIECE TO 1ST IN LIKE MANNER.

① 2 X 4 DOUBLED. NAIL 1ST PIECE TO TRAILER FLOOR W/1-16d NAIL EVERY 8 INCHES. NAIL 2ND PIECE TO 1ST IN LIKE MANNER.

**DETAIL A**

FRONT AND REAR BLOCKING ASSEMBLY IN PLACE



④ 2 X 6 DOUBLED. NAIL TRAILER FLOOR W/6-16d NAILS. NAIL 2ND PIECE TO 1ST IN LIKE MANNER.