RSPA-97-3101-12

11952.M
#41486

DEPARTMENT OF THE NAVY
NAVAL ORDNANCE SAFETY & SECURITY ACTIVITY
FARRAGUT HALL BLDG D-323
23 STRAUSS AVENUE
INDIAN HEAD MD 20640-5555

PM 2:19

4600
Ser N7141/985
20 **Sep 01**

From: Commanding Officer, Naval Ordnance Safety and Security Activity, Indian Head, MD 20640
To: Office of Hazardous Materials, Transportation Research and Special Programs Administration, Attn: DHM 31; U.S. Department of Transportation, 400 Seventh Street, S.W. Washington, DC 20590, Attn: Ryan Posten

Via: Commander, Headquarters, Military Traffic Management Command, Protection Division, 200 Stovall Street, Alexandria, VA 22332-5000 (MTOP-PRF, J. Shareef)

Subj: REVISION TO COMPETENT AUTHORITY APPROVAL AND DOT-E 11952

Encl: (1) NSWC Indian Head Division Det Earle ltr ser 715/0182 of 7 Sep 01

1. Enclosure (1), request to update and revise DOT-E 11952, is forwarded for your review and approval. This request is made in support of a new laser guided training round. This new laser guided training round configuration increases the quantity of pressure vessels to six in the aluminum container and eight in the new wooden container.

3. The Point of Contact for this action is Mr. Oliver Bell (N7141), at DSN: 354-6056 x110 or commercial: 301-744-6056 x110 or email: belloj@navsea.navy.mil

R. S. POE
By direction

Copy to: NAVSURFWARCEN DET EARLE NJ (Code 715)

DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
INDIAN HEAD DIVISION DETACHMENT EARLE
201 HIGHWAY 34 SOUTH
COLTS NECK, NJ 07722-5023

8000
Ser 715/0182
07 SEP 2001

From: Director, Naval Surface Warfare Center, Indian Head Division Detachment Earle
To: Commander, Headquarters, Military Traffic Management Command, Protection Division, 200 Stovall Street, Alexandria, VA 22332-5000 (MTOP-PRF, J. Shareef)
Via: Commanding Officer, Naval Ordnance Safety and Security Activity Farragut Hall, Building D323, 23 Strauss Avenue, Indian Head, MD 20640-5555 (Code N7141)

Subj: REVISION TO COMPETENT AUTHORITY APPROVAL AND DOT-E-11952

Encl: (1) Drawing (94172) 137769 for Nitrogen Gas Bottle
(2) Drawing (94271) 137093 Sheets 1 through 4 for Container, 4 Pack, LGTR
(3) AR68/114 Packing Requirement for LGTR in CNU-571/E Container
(4) Certificate of Equivalency NA-97-522A for Compressed Nitrogen in LGTR

1. Enclosures (1) through (4) are forwarded for review and to support the revision of DOT-E-11952 by the Department of Transportation (DOT) Research and Special Programs Administration (RSPA). The revision is necessary to reflect both a change in the quantity of hazardous material being packaged and the use of an additional outer shipping container. Note that DOT-E-11952 also serves as Competent Authority Approval (CA-9709005).

2. DOT-E-11952 /CA-9709005 was issued to exempt the outer packaging from the 30 kg (66lb) gross weight limitation of 49 CFR 173.306(a), thus permitting shipment as a limited quantity under 49 CFR, International Maritime Dangerous Goods (IMDG) Code, and the International Civil Aviation Organization Technical Instructions (ICAO TI). The exemption / approval permits a quantity of up to three small pressure vessels (4.57 cubic inches) in a Navy designed aluminum shipping container having a gross weight of 320 kg (700 pounds). The pressure vessels are inner components of the three laser guided training rounds packaged in the aluminum container.

3. A new variation to the laser guided training round has been introduced which is configured with two **of** the pressure vessels. This modification brings the maximum quantity of pressure vessels that can be transported in the outer aluminum shipping container to six. Additionally, a wooden shipping container has been introduced which contains up to four training rounds, bringing the maximum quantity of pressure vessels per outer package to eight. In support of these program changes, it is requested that DOT-E-11952/ CA-9709005 be revised as follows:

a. Update paragraph 7 to reflect a maximum of six pressure vessels transported in a reusable metal box (CNU-571/E).
b. Update paragraph 7 to include the four (4) pack wooden shipping container conforming to DOD drawing (94271) 137093 (enclosure 2) with a total quantity of eight pressure vessels.
c. Update paragraph 7 to include an additional drawing for the pressure vessel, Drawing (94172) 137769 (enclosure (1).

4. Point of contact is Louis DeBenedetto, Code 715LD, Commercial (732) 866-2892, DSN 449-2892 or Email: debenedettold@phst.navy.mil.

K. .H. ZIMMS

ENCL (1)

ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	1/20/00	

NOTES:

1. DESCRIPTION: **75** CUBIC CENTIMETERS **(4.57** CUBIC INCHES). BOTTLE FILLED WITH NITROGEN GAS **TO** 3000 PSIG. BOTTLE **DESIGN,** CONSTRUCTION AND TESTS TO BE IN ACCORDANCE WITH **MIL-C-52053.**

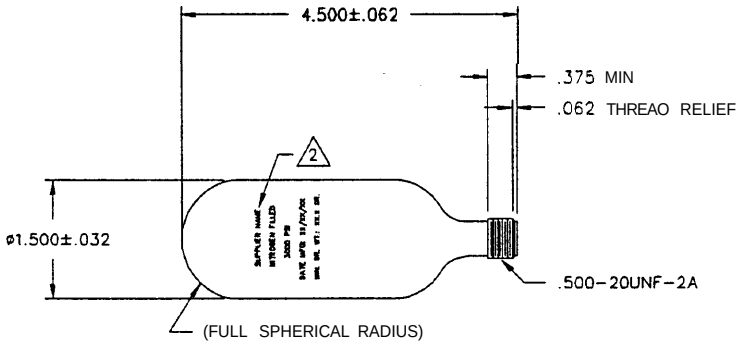
2. MARKING: MARKING **TO** BE IN ACCORDANCE WITH MIL-C-52053 (INK COLOR **OPTIONAL)** AT **A MINIMUM,** ME BOTTLE **MUST** BE PERMANENTLY MARKED WITH THE FOLLOWING INFORMATION:
   SUPPLIER NAME
   NITROGEN FILLED
   3000 **PSI**
   DATE MFG: XX/XX/XX
   MIN. GR. WT.: XX.X GR.

3. FILL DATA 99.98% PURE NITROGEN GAS FILLED TO 3000 ± 100 PSIG AT 70 F.

4. LEAK DATA: **LEAK** TESTS TO BE IN ACCORDANCE WITH MIL-C-52053.

5. FOR REFERENCE: BOTTLE **IS** FILLED WITH 17.8 **GRAMS** (NOMINAL) **OF** NITROGEN. FULL BOTTLE WEIGHT IS APPROXIMATELY **194-198** GRAMS.

6. PACKAGE IN ACCORDANCE WITH DRAWING NUMBER 137701.



	UNLESS OTHERWISE SPECIFIED		
	DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± 1° FRACTIONS ± — DECIMALS ± .015 PART SHALL BE FREE OF BURRS BROKEN EDGES — MAX FILLETS — R MAX SURFACE ROUGHNESS ✓	PRGM	G. KOSIK
		DSGN	P. LAUBHAM
		DWG	T. O'DONNELL
		MFG/CM	W. KAISER
	DO NOT SCALE THIS DRAWING		
137980			
137880	INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100, ANSI Y14.5M-1982		
NEXT ASSY			

GAS BOTTLE, NITROGEN

SIZE	CAGE CODE	DRAWING NO.
D	94172	137769

SCALE 1 : 1 SHEET 1 OF 1

CIAG/B 70324*
COMPUTER GENERATED

NOTES:

1. DIMENSIONS: ALL DIMENSIONS ON THIS ORAWNC ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

CONTAINER INSIDE DIM'S		
L	W	D
87.50 [2223mm]	45.50 [1156mm]	14.50 [368mm]

2. APPROXIMATE SHIPPING WEIGHT (ENTIRE ASSEMBLED CONTAINER):

CONTAINER	116 LBS
PALLET	71 LBS
CRADLES	31 LBS
TOTAL UNIT	218 LBS

360
578

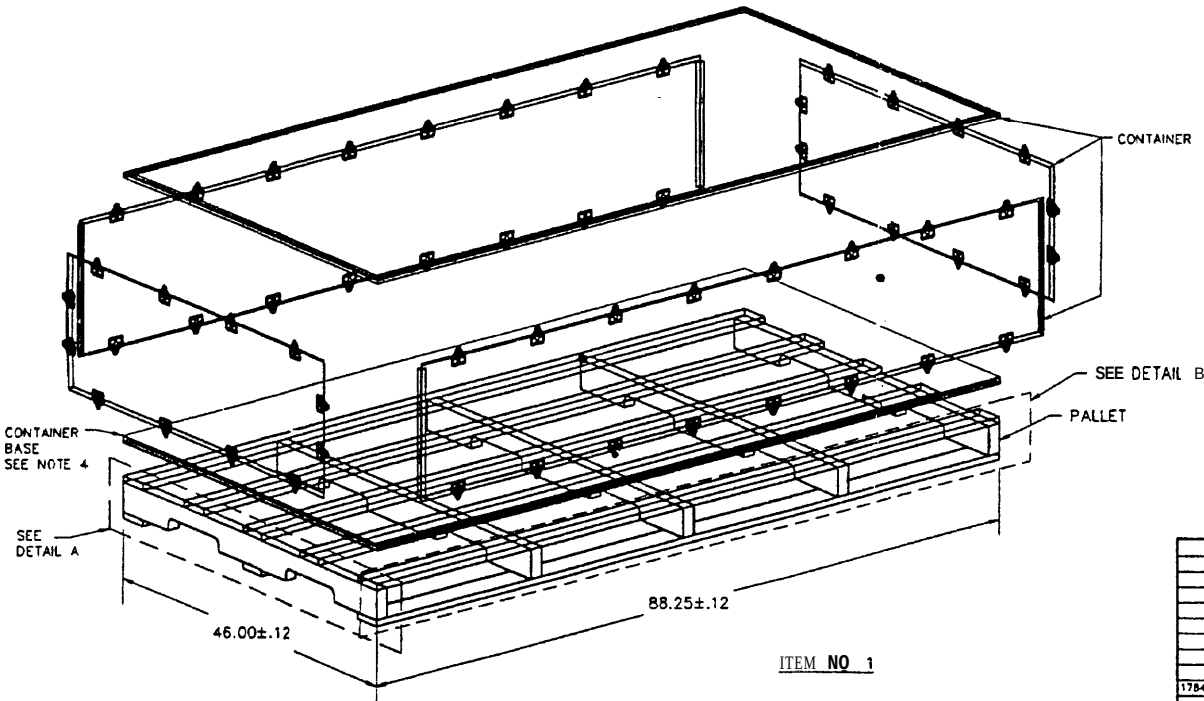
3. A) CONTAINER MATERIAL(PART OF ITEM 1):
WOOD SHEET: ORIENTED STRANDBOARD (OSB), WEYERHAEUSER STRUCTURE WOOD APA CERTIFIED SHEATHING GRADE, (24/0 SPAN, 9.5 [.375] THICK. (PLACE SMOOTH SIDE OUT).
STEEL: GALVANIZED, PER ASTM STD.

B) PALLET MATERIAL (PART OF ITEM 1): SOFTWOOD LUMBER, SPF, NO. 3 OR BETTER.
DECK BOARDS: 1"X6" NOMINAL (5) REQUIRED.
STRINGERS: 2" X 4" NOMINAL (5) REQUIRED.
BOTTOM BOARDS: 1" X 4" NOMINAL (3) REQUIRED.

C) CRADLE MATERIAL: SOFTWOOD LUMBER, SPF NO. 2 OR BETTER GRADE, KILN DRIED. NOTE, 2" X 8" MATERIAL MUST BE 1.5" X 7.25" MINIMUM WHEN RECEIVED.

4. CONTAINER BASE TO BE CENTERED AND NAILED AS REQUIRED ONTO THE PALLET.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	7/2/92	
	A	UPDATED PER ECP 92000	8/21/92	
	B	UPDATED PER ECP 92073	8/17/93	
	C	UPDATED PER ECP 5167-003	8/17/98	WCK



ITEM NO 1

ITEM NO.	QTY REQD	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	NOTE	ZONE
PARTS LIST							
11	16		137093-10	NEOPRENE STRIPS W/ ADHESIVE BACK	6.0 L X 1.50 W X .19 THK NO. 50 DUROMETER		SHT 3,4
10	A/R		137093-9	NAIL, 10d, CEMENTED COATED BOX/ANGULAR			SHT 4
9	A/R		137093-8	GLUE, WOOD CARPENTER'S			SHT 4
8	6		137093-7	WASHER, SPLIT LOCK 3/8			SHT 4
7	6		137093-6	T-NUT, STRAIGHT BARREL 3/8-16			SHT 4
6	14		137093-5	WASHER, FLAT 7/16 ID X 1.00			SHT 4
5	6		137093-4	BOLT, HEX HEAD, 3/8-16 UNC X 12.00 LONG			SHT 4
4	4		137093-3	LAG SCREW, HEX HEAD 3/8 X 3.50 LONG			SHT 4
3	4		137093-2	LAG SCREW, HEX HEAD 3/8 X 9.00 LONG			SHT 4
2	2		137093-1	CRADLE SET		3C	SHT 3,4
1	1		63-00150-10	S-VIKEX SHIPPING CONTAINER, W/ PALLET	(NEFAB INC)	3A,3B 4,5	SHT 1,2,4

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES
ANGLES ±
FRACTIONS ±
DECIMALS ± .03
PART SHALL BE FREE OF BURRS
BROKEN EDGES MAX
FILLETS R MAX
SURFACE ROUGHNESS ✓
DO NOT SCALE THIS DRAWING
INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100, ANSI Y14.5M-1982

PRGM	B. ABRAMS
DSGN	P. LAUBHAN
DWG	W. THORPE
MFG/CM	J. PHEIFF

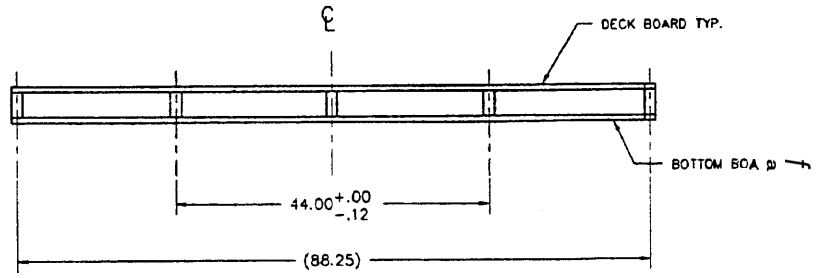
1784AS2000
NEXT ASSY

CONTAINER 4 PACK, LGTR

SIZE D | CAGE CODE 94271 | DRAWING NO. 137093
SCALE - | 09301-C | SHEET 1 OF 4

137093

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	UPDATED PER ECP 92000.	8-21-92	
	B	UPDATED PER ECP 92073.	6-17-93	
	C	UPDATED PER ECP 5167-003	9/17/98	



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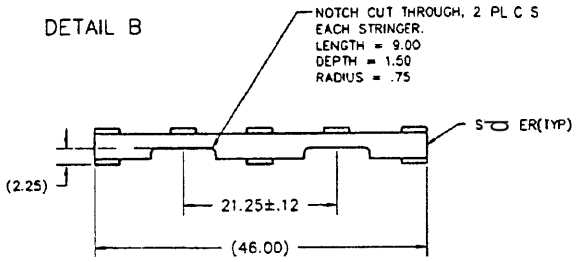

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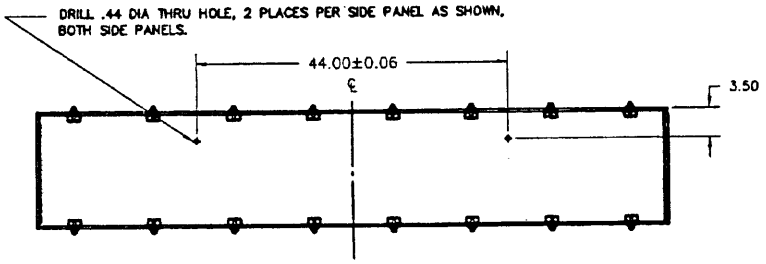
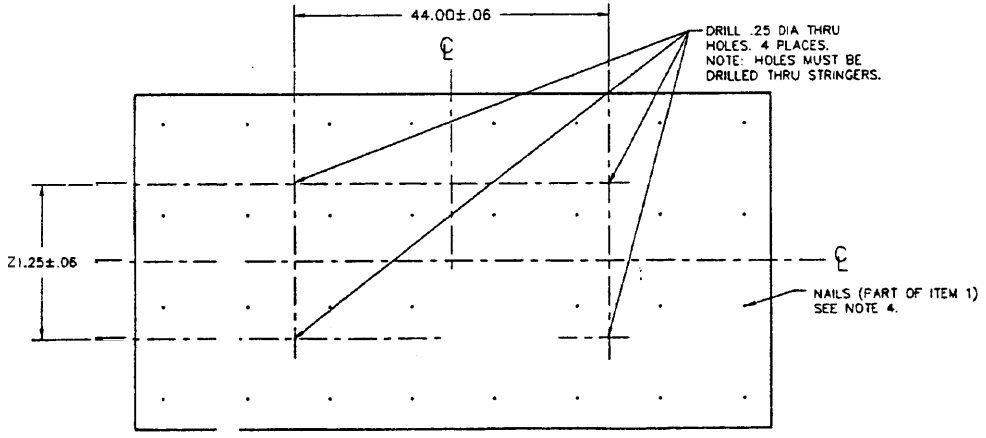




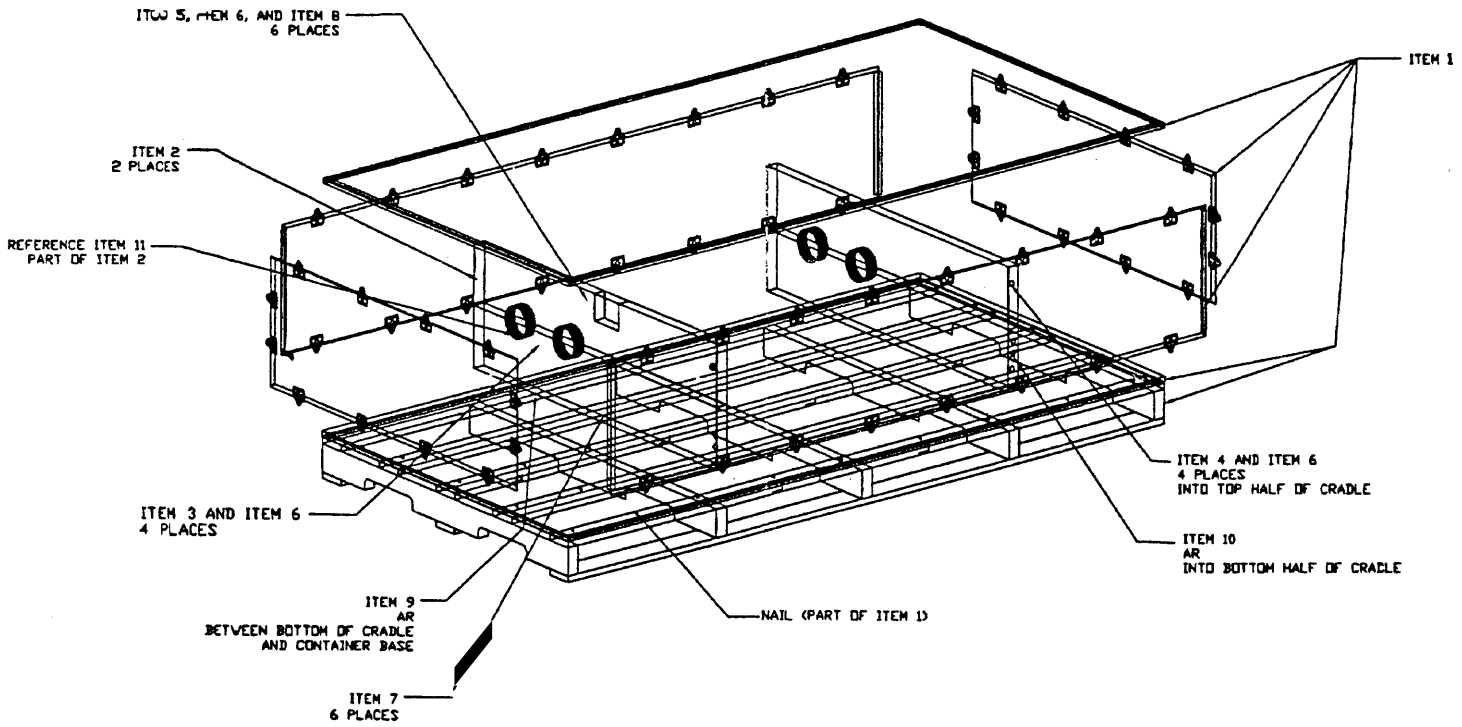
TOP VIEW OF CONTAINER BASE ON THE PALLET (SEE NOTE 4)

ITEM NO. 1

CAGE CODE	DRAWING NO.		
D19721	137093		
SCALE –	09302-C	SHEET 2 OF 4	

137093

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	UPDATED PER ECP 92000	8-21-92	
	B	UPDATED PER ECP 92073	6-17-93	
	C	UPDATED PER ECP 5167-003	8-17-98	



137093 ASSEMBLY

SIZE	CAGE CODE	DRAWING NO.
D	94271	137093
SCALE -	09304-C	SHEET 4 OF 4

AGE CODE
30003

DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND

AR-68/114
ISSUE DATE: 30 OCT 95
PAGE 1 OF 5

AIR REQUIREMENT, PACKING

LASER GUIDED TRAINING ROUND (LGTR) IN CONTAINER, SHIPPXNG AND STORAGE CNU-571/E
DL 3454A8100

CONTAINER DATA:

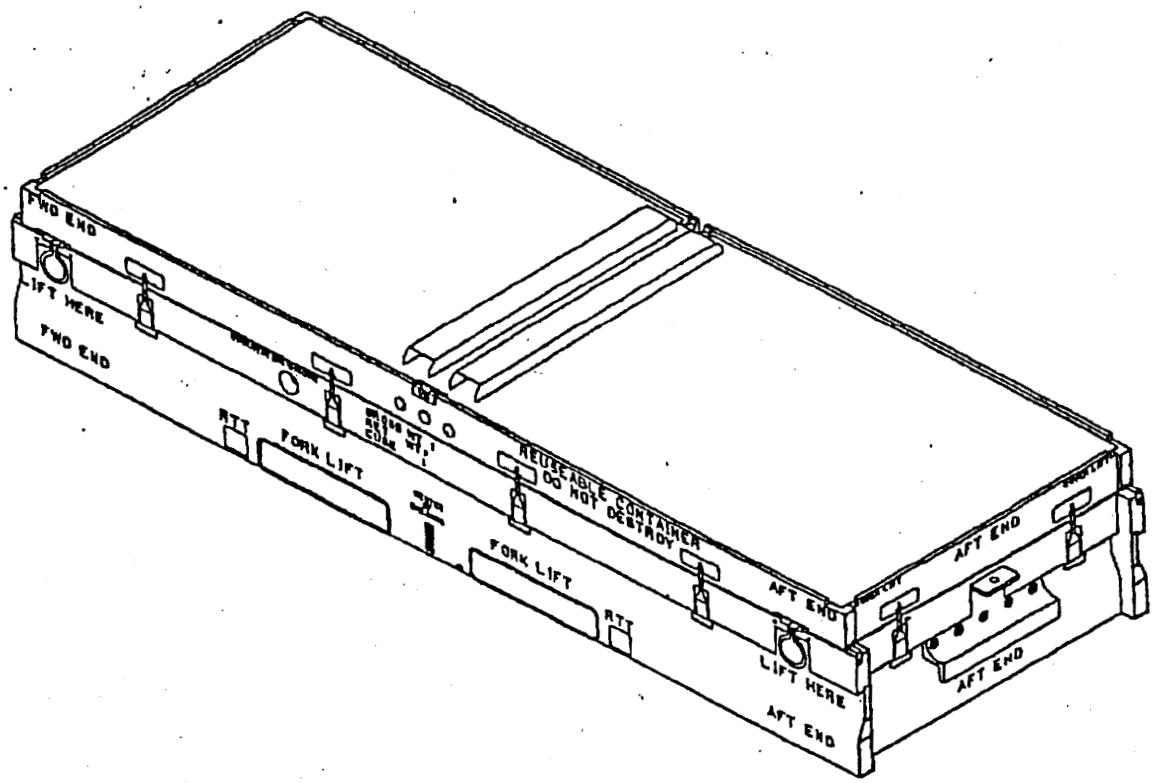
NUMBER OF TRAINING ROUNDS PER CONTAINER.....3

LENGTH.....101 INCHES
WIDTH.....35 INCHES

HEIGHT.....19.38 INCHES

CONTAINER COVER WEIGHT.....106 POUNDS
EMPTY WEIGHT OF CONTAINER.....426 POUNDS

LOADED WEIGHT OF CONTAINER (3 LGTRs).....693 POUNDS
CUBE.....39.2 CUBIC FEET



INDEX

REV	DESCRIPTION	TDA	SYSCMD	DATE

REVISION APPROVAL

TECHNICAL DIRECTING ACTIVITY APPROVAL (Signature and date)

10/30/95

A. V. STANTON, WPNSTA EARLE, PHST CENTER, CODE 5011

NAVAL AIR SYSTEMS COMMAND HEADQUARTERS APPROVAL
(Signature and date)

10/30/95

K. H. ZIMMS, WPNSTA EARLE, PHST CEHTER

PACKING PROCEDURES

CAUTION

UET FOAM CUSHIONS CANNOT BE USED. 00 NOT PACK CONTAINER OUTDOORS IN WET WEATHER.

1. TRANSPORT CONTAINER, CNU-571/E (ITEM 1) TO PACKING AREA.

2. INSPECT EXTERIOR OF CONTAINER FOR DAMAGE WHICH MAY AFFECT FUNCTION. IF SUCH DAMAGE EXISTS, NOTIFY SUPERVISOR.

3. REHOVE ANTI-PILFERAGE SEALS (ITEM 2) AT ENDS OF CONTAINER. IF SEALS ARE NOT PRESENT, NOTIFY SUPERVISOR.

4. UNLATCH CONTAINER STARTING AT CENTER, UNLATCHING OPPOSITE SIDES. CONTINUE UNLATCHING SEQUENCE EQUALLY TOWARD BOTH ENDS.

NOTE

LATCH CUT-OUTS IN CONTAINER COVER ARE TO BE USED AS HAND GRIPS.

NOTE

SET CONTAINER COVER OW ITS SIDE OR TOP TO PREVENT DAMAGE TO COVER CUSHIONS.

5. USING TWO OR FOUR PERSONS, REHOVE CONTAINER COVER AND SET ASIDE UHERE IT WILL NOT INTERFERE UITH PACKING OPERATIONS.

6. INSPECT CUSHIONS IN CONTAINER COVER AND BASE FOR DAMAGE THAT COULD AFFECT FUNCTION. ENSURE THAT EASE CUSWXONS ARE SEATED FULLY DOUN ON BASE FLOOR. IF WATER IS PRESENT, DO NOT USE UNTIL THOROUGHLY DRY.

CAUTION

ENSURE THAT FOAM PAD IS XNSTALLED IN REAR OF SEEKER AND PLASTIC CAP IS OM FRONT OF SEEKER ON LASER GUIDED TRAINING ROUNDS. (SEE PACKING DETAILS.)

7. TRANSPORT LASER GUIDED TRAINING ROUNDS (LGTRs) TO PACKING AREA.

CAUTION

ENSURE THAT MOUNTING LUG ON TRAINING ROUND IS IN THE DOWN POSITION YITH THE OPENING IN THE LUG FACING FWD TO AFT AS SHOWN IN PACKIUG DETAILS.

AFT END Of TRAINING ROUND SHALL FACE IN THE DIRECTION OF THE STENCILED WORD "TAIL" ON BASE FLOOR.

NOTE

STEPPING ON FLOOR OF CONTAINER BASE IS ALLOWED.

8. MANUALLY LIFT TRAINING ROUND USING ONE PERSON GRASPING THE PLASTIC DOME OH AFT EMD AND ONE PERSON GRASPING THE ROUND AT THE AREA BEHIND THE SEEKER. POSITION TRAINING ROUND IN PROPER DIRECTION AND SLOWLY LOWER ROUND UNTIL MOUNTING LUG IS PROPERLY INSERTED IN CUSHION CAVITY. YHEH IT HAS BEEN DETERMINED THAT LUG IS ALIGNED WITH CAVITY, CONTINUE LOWERING TRAINING ROUND UNTIL SEATED OH BASE CUSHIONS. REPEAT THIS PROCEDURE FOR PACKIWG THE REMAINING TRAINING ROUNDS.

9. USING TWO OR FOUR PERSONS, POSITIOH COHTAIHER COVER OVER COHTAINER BASE ENSURING THAT FORWARD END OF COVER IS OVER FORWARD END OF BASE.

10. SLOWLY LOWER COVER ONTO BASE. IF AWY INTERFERENCE OR ROCKING OCCURS, REHOVE COVER AND INSPECT CONTENTS FOR IMPROPER IHSTALLATION.

11. LATCH CONTAINER STARTING AT THE CENTER, LATCHING OPPOSITE SIDES. CONTINUE LATCHING SEQUENCE EQUALLY TOWARD BOTH ENDS. LATCHES THAT ARE TOO TIGHT OR LOOSE CAN BE ADJUSTED BY TURNING NUT OW DRAWBOLT.

PACRING PROCEDURES (Continued)

CAUTION

ANTI-PILFERAGE SEALS SHOULD HAVE A SYMBOL IMPRINTED ON THE LEAD OR ALUMINUM DISK IDENTIFYING THE PACKAGING/UNPACKAGING ACTIVITY FOR TRACEABILITY, PER NAVSEA *OP* 5 VOLUME 1.

12. INSTALL AN ANTI-PILFERAGE SEAL (ITEM 2) IN EACH END OF COHTAINER. INSERT SEAL THROUGH HOLE IN CONTAINER BASE AND HOLE IN CONTAINER COVER, LOCATED IN LATCH CUT-OUT. CRIMP LEAD OR ALUMINUM DISK USING A DIE WHICH IMPRINTS A SYMBOL ON THE DISK. FOR PRIVATE CONTRACTORS, THE SYMBOL SHALL BE "U.S.", FOR GOVERNMENT ACTIVITIES, THE SYMBOL SHALL IDENTIFY THE ACTIVITY, OR THE ACTIVITY AND INDIVIDUAL, EC. INSPECTOR INDICATOR (STAHP) NUMBER, APPLYING THE SEAL.

13. REMOVE ALL MARKINGS THAT IDENTIFY CONTAINER AS BEING EMPTY.

14. IN ADDITION TOAHY SPECIAL MARKINGS REQUIRED BY CONTRACT OR ORDER, MARK CONTAINER IN ACCORDANCE UITH MIL-STD-129-1.

UNPACKING PROCEDURES

CAUTION

WET FOAM CUSHIONS CANNOT BE USED. DO HOT UNPACK CONTAINER OUTDOORS IN WET WEATHER.

1. TRANSPORT CONTAINER, CNU-571/E (ITEM 1) TO UNPACKING AREA.

2. INSPECT EXTERIOR OF CONTAINER FOR DAMAGE THAT WOULD AFFECT FUNCTION. IF SUCH DAMAGE EXXSTS, ANNOTATE ON CONDITION CODE TAG (ITEM 31 AND NOTIFY SUPERVISOR.

3. INSPECT ANTI-PILFERAGE SEALS (ITEM 2) FOR EVIDENCE OF POSSIBLE INTRUSION. IF SEALS ARE DAMAGED OR HISSING, NOTIFY SUPERVISOR. REHOVE SEALS-

4. UNLATCH CONTAINER STARTING AT CENTER, UNLATCHING OPPOSITE SIDES. CONTINUE UNLATCHING SEQUENCE EQUALLY TOUARD BOTH ENDS.

NOTE

LATCH CUT-OUTS IN CONTAINER COVER ARE TO BE USED AS HAND GRIPS.

NOTE

SET CONTAINER COVER ON ITS SIDE OR TOP TO PREVENT DAMAGE TO COVER CUSHIONS.

5. USING TWO OR FOUR PERSONS, REWOVE CONTAINER COVER AND SET ASIDE WHERE If WILL NOT INTERFERE UITH UNPACKING OPERATIONS.

6. INSPECT LGTRs FOR ANY DAMAGE. ENSURE THAT PLASTIC CAP AND FOAM PAD ARE INSTALLED ON SEEKER (SEE PACKIWG DETAILS), IF ANY DAMAGE EXISTS OR SEEKER PARTS ARE NOT INTACT, DXSCONTINUE UNPACKING OPERATIONS AND NOTIFY SUPERVISOR.

7. USING TWO PERSONS, MANUALLY REHOVE TRAINING ROUNDS FROM CONTAINER AND PLACE ON APPROPRIATE SUPPORT EQUIPMENT.

8. USING TWO OR FOUR PERSONS, PLACE FWD END OF CONTAINER COVER OH F M END OF CONTAINER BASE.

9. LATCH CONTAINER STARTING AT THE CENTER, LATCHING OPPOSITE SIDES. CONTINUE LATCHING SEQUENCE EQUALLY TOUARD BOTH ENDS.

10. IF ALL TRAINING ROUNDS ARE: REMOVED, IDENTIFY CONTAINER AS EMPTY BY STENCILING THE WORD "EMPTY" IN MINIMUM ONE INCH LETTERS OR BY APPLYING AN EMPTY LABEL (ITEW 4) ON A SIDE AND AN END OF CONTAINER.

CAUTION

ANTI-PILFERAGE SEALS SHALL HAVE A SYMBOL IMPRINTED ON THE LEAD OR ALUMINUM DISK IDENTIFYING THE PACKAGING/UNPACKAGING ACTIVITY FOR TRACEABILITY, PER NAVSEA OP 5 VOLUME 1.

11. INSTALL ANTI-PILFERAGE SEALS (ITEM 2) ON ENDS OF CONTAINER. INSERT SEAL THROUGH HOLE IN CONTAINER EASE AND HOLE IN CONTAINER COVER, LOCATED IN LATCH CUT-OUT. CRIMP LEAD OR ALUMINUM DISK USING A DIE WHICH IMPRINTS A SYMBOL ON THE DISK. FOR PRIVATE CONTRACTORS, THE SYMBOL SHALL BE "U.S." FOR GOVERNMENT ACTIVITIES, THE SYMBOL SHALL IDENTIFY THE ACTIVITY, OR THE ACTIVITY AND INDIVIDUAL, E.G. INSPECTOR INDICATOR (STAMP) NUMBER, APPLYING THE SEAL.

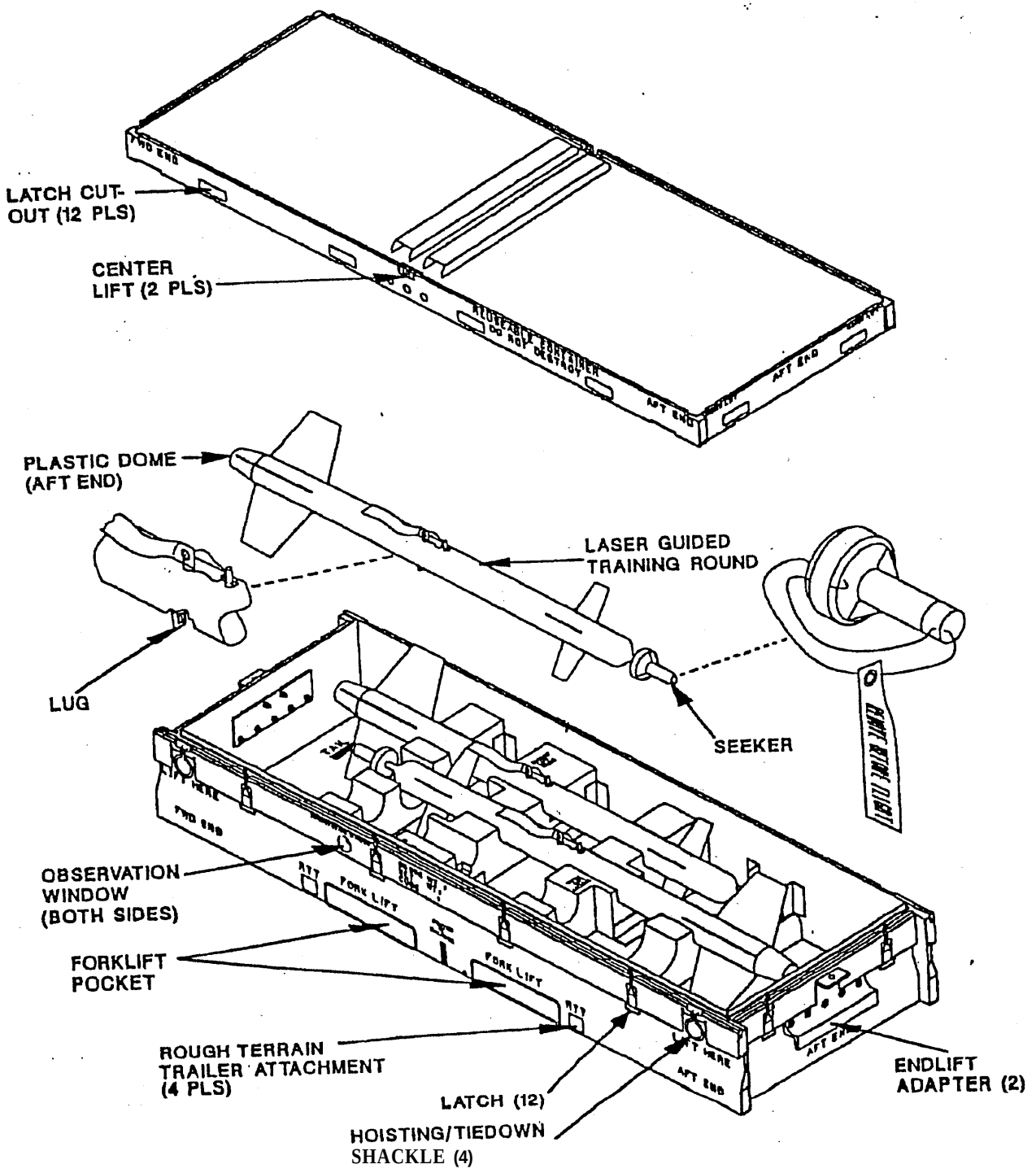
12. TRANSPORT CONTAINER TO DESIGNATED STORAGE AREA.

LIST OF MATERIALS

REQ.	ITEM	DESCRIPTION	MAT'L	SPEC/DWG
2	4	LABEL, EMPTY		LOCAL PROCUREHEHT
AR	3	MATERIAL CONDITION CODE TAG		MIL-STD-129
4	2	SEAL, ANTI-PILFERAGE		FF-S-2738, STYLE A, TYPE 1
1	1	COHTAINER, SHIPPING 8 STORAGE, CNU-571/E		DL 3454AS100

'PACKING DETAIL0

LASER GUIDED TRAINING ROUND (LGTR) IN
CONTAINER, SHIPPING AND STORAGE CNU-571/E
DL 3454A8100



DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
INDIAN HEAD DIVISION DETACHMENT EARLE
201 HIGHWAY 34 SOUTH
COLTS NECK, NJ 07722-5023

16 August 2001

CERTIFICATE OF EQUIVALENCY
NA-97-522A
COMPRESSED NITROGEN IN LASER GUIDED TRAINING ROUND

1. AUTHORITY. This certificate is issued in accordance with 49CFR 173.7(a) and NAVSUPMST 4030.50

2. COMMODITY. Compressed nitrogen gas pressurized to 3000 psi @ 72 Deg F. The compressed nitrogen is contained within a gas bottle(s) which is a component to the Laser Guided Training Round (LGTR).

a. DOT Proper Shipping Name:	Nitrogen, compressed
b. DOT Hazard Class:	2.2
c. DOT Hazard Class/Div/SCG:	2.2s
d. UN Serial Number	1066

3. PACKAGING DESCRIPTION. The compressed nitrogen is contained within a gas bottle or bottles conforming to (30003) 1784AS829 or (94172) 137769). The gas bottle is a vessel having a volume of 4.57 cu in and is rigidly attached within the LGTR. The LGTR is in turn packaged in the CNU-571/E Shipping and Storage Container or a wooden container conforming to drawing (94271) 137093.

a. DOT Marking:	NITROGEN, COMPRESSED		
	UN 1066	CCN-NA-97-522A	EX-9303323
b. DOT Label:	NON-FLAMMABLE GAS		

4. BASIS. This Certificate of Equivalency is based upon design analysis and supporting technical data which is on file at Naval Surface Warfare Center, Indian Head Division, Detachment Earle, including specification requirements demonstrating a design safety factor exceeding 2 to 1 (8,000 psi).

5. SPECIAL TRANSPORTATION REQUIREMENTS.
a. Shipping papers shall be annotated "Packaged in accordance with 49CFR 173.7(a) by authority of CNN-NA-97-522A".
b. A copy of this certificate shall accompany each shipment.
c. Military air in accordance with AFJAM 24-204 authorized.
d. Motor vehicle in accordance with 49 CFR authorized. Motor vehicles shall be loaded and braced in accordance with MIL-STD-1320-285.

6. **CERTIFYING OFFICIAL**

L. D. DEBENEDETTO
PHST Tech Data Management
NSWCIHD Detachment Earle

ENDORSING OFFICAL

A.V. STANTON
PHST Tech Data Management Supervisor
NSWCIHD Detachment Earle