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DEPARTMENT OF THE ARMY

ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

30 JUN 1993



REPLY TO
ATTENTION OF

SMCAR-AEP (1mm)

MEMORANDUM FOR Commander, Defense Technical Information Center,
Building 5, Cameron Station, Alexandria VA
22304-6145

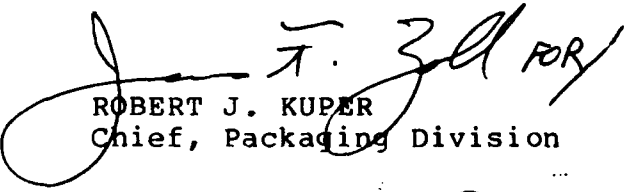
SUBJECT: Release of Performance Oriented Compliance Report

1. The enclosed report (DODPOPHMTR/AYD 93-011) entitled:
"Performance Oriented Packaging Testing of Wirebound Box for
Pressure Cartridge Packed in a M2A1 Metal Container" is hereby
submitted to the Defense Technical Information Center for formal
release. Please send notification of formal release to:

U.S. Army Armament Research, Development and
Engineering Center, Picatinny Arsenal, NJ 07806-5000

2. The point of contact for this report is Mr. Roy Garner,
(201) 724-2220 or DSN 880-2220.

Encl
as


ROBERT J. KUPER
Chief, Packaging Division

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Approved for public release
Distribution Unlimited

REPORT DOCUMENTATION PAGE

Form Approved
OMB No 0704-0188
Exp Date Jun 30, 1986

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS None	
2a. SECURITY CLASSIFICATION AUTHORITY N/A		3. DISTRIBUTION/AVAILABILITY OF REPORT Distribution A: Unlimited.	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A			
4. PERFORMING ORGANIZATION REPORT NUMBER(S) DODPOPHMTR/AYD 93-011		5. MONITORING ORGANIZATION REPORT NUMBER(S) None	
6a. NAME OF PERFORMING ORGANIZATION Packaging Division	6b. OFFICE SYMBOL (If applicable) SMCAR-AEP	7a. NAME OF MONITORING ORGANIZATION None	
6c. ADDRESS (City, State, and ZIP Code) U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NJ 07806-5000		7b. ADDRESS (City, State, and ZIP Code) None	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION Same as 6a.	8b. OFFICE SYMBOL (If applicable) SMCAR-AEP	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
8c. ADDRESS (City, State, and ZIP Code) Same as 6c.		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) Performance Oriented Packaging (POP) Test of Wirebound Box, Part Number 7553347 for Pressure Cartridge packed in a M2A1 Metal Container.			
12. PERSONAL AUTHOR(S) Roy Garner			
13a. TYPE OF REPORT Final	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Year, Month, Day) 930607	15. PAGE COUNT
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	
		1. Performance Oriented Packaging	
		2. Ammunition Packaging	
		3. M2A1 Container	
		4. Wirebound Box	
		5. Packaging	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report covers the POP testing of Wirebound Box, P/N 7553347, by analogy, IAW section 178.601 (page 309) of CFR Title 49, dated 1 Oct 92. The exterior wirebound box contains two M2A1 metal inner containers (Dwg. 12902743). Each M2A1 metal container contains 7 paperboard boxes (Dwg. 12902745 - 1) with 5 pressure cartridges each per box. POP tests of identical configuration was conducted using containers containing additional weights to insure that tested weight is higher than heaviest pack to insure safety in shipping (Reference DODPOPHMTR/AYD 92-005, test report for Performance Oriented Packaging, two M2A1 metal inner containers packed in a wirebound box).			
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☐ UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT. ☐ DTIC USERS		21. ABSTRACT SECURITY Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL Roy Garner		22b. TELEPHONE (Include Area Code) (201) 724-2220	22c. OFFICE SYMBOL SMCAR-AEP

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1. DATA SHEET

Container:

Type: Box, Wirebound
 Part No.: 7553347
 UN Code: 4C1
 Spec No.: PPP-B-585
 Material: Wood
 Capacity: 19.1 liters
 Packing and Marking Drawing: 12902744
 Dimensions:

Inside: 31.52 cm x 30.96 cm x 19.53 cm
 (12 3/16 in x 12 1/16 in x 7 9/16 + 1/8 in)

Outside: 36.67 cm x 31.83 cm x 20.64 cm
 (14 7/16 in x 12 17/32 in x 8 1/8 in)

Weight: 2.5 kg (5.5 lbs)

Container (Inner):

Type: Box
 Model No.: M2A1
 Spec No.: Mil-B-3060
 Material: Metal
 Capacity: 6.8 liters
 Packing and Marking Drawing: 12902743
 Dimensions:

Inside: 27.94 cm x 14.13 cm x 17.22 cm
 (11 in x 5 9/16 in x 6 25/32 in)

Outside: 30.56 cm x 15.48 cm x 19.05 cm
 (12 1/32 in x 6 3/32 in x 7 1/2 in)

Weight: 2.5 kg (5.5 lbs)

Closure (Method/Type): Hinged lid

Product:

Name: Pressure Cartridge Assembly
 Part Number: 9366511
 Proper Shipping Name: Cartridges, Power Device
 Identification Number: 0275
 Physical State: Solid
 Quantity per Container: 70

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2. CONCLUSION:

This packaging configuration was previously POP tested as reference in DODPOPHMTR/AYD 92-005, test report for Performance Oriented Packaging; two M2A1 Metal inner containers packed in a wirebound box. In addition, the length, height, and width of both the wirebound box, and the M2A1 Metal containers are identical. The weights tested as stated in this report range from 15 kg to 47 kg. The total weight of the wirebound box loaded for the pressure cartridges is 21 kg. Therefore, since 21 kg is within the range for items previously tested, by analogy, IAW section 178.601 (page 309) of CFR title 49, this package is considered safe for domestic and international shipment.