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

ROBERT J. KUPER
Chief, Packaging Division

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Approved for public release
Distribution Unlimited
Performance Oriented Packaging (POP) Test of Wirebound Box, Part Number 7553347 for Pressure Cartridge packed in a M2A1 Container.

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).
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
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 catridges 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.