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FIELD	GROUP	SUB-GROUP	Performance Oriented Packaging, POP, Escapement Assembly
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			
<p>Performance Oriented Packaging (POP) testing was successfully completed on the package design for the Escapement Assembly F/M550 Fuze. Four foot drops and stacking test were conducted with six packages. → (2 pages) →</p> <p>The POP marking, 4CI/Y22/Sxx has been assigned to this item. USA/DOD/AYD(xx is the last two digits of the year package)</p>			
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REPORT COVER

I REPORT NUMBER

II TITLE: Performance Oriented Packaging Testing of Escapement
Assembly for M550 Fuze

AUTHOR: Ronald Prybylowski

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army
Armament Research, Development and Engineering Center
HQ-US-Army Armament, Munitions and Chemical Command
Picatinny Arsenal, NJ 07806-5000
SMCAR-AEP

DATE August 1988

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1. DATA:

CONTAINER:

TYPE: Wood Box
UN CODE: 4C1
NOMENCLATURE: Box, Wood
SPECIFICATION NUMBER: MIL-B-2427
DRAWING NUMBER: 12598465
MATERIAL: Wood
CAPACITY: 14 kgs (31 lbs)
DIMENSIONS: 18 1/8 X 14 5/16 X 9 11/16
TARE WEIGHT: 22kgs (47 lbs)

PRODUCT:

NAME: Escapement assembly for M550 Fuze
DRAWING NUMBER: 8886357
UNITED NATIONS NUMBER: n/a
UNITED NATIONS PACKING GROUP: II
PHYSICAL STATE: Solid
AMOUNT PER CONTAINER: 1280

2. BACKGROUND:

The escapement assembly for the M550 fuze was provisionally packed in a fiberboard box/barrier bag/wood box. Due to the success of the pack in protecting the assembly, a technical data package (TDP) was prepared to implement the pack as a permanent pack. As part of the TDP, a United Nations Performance Oriented Packaging (UN POP) marking is required. The following test plan was completed to obtain a UN POP marking for the pack.

(TES) ←

3. TEST PLAN:

Testing was conducted in accordance with section 9.7 of "Transport of Dangerous Goods", third edition. Paragraph 9.7.3, Drop Test, and paragraph 9.7.6, Stacking Test, were the only tests required for this pack.

3a. Drop Test

Sample size: 5 boxes
Temperature: Ambient
Drop Orientation (one box for each drop):
1. Bottom
2. Top
3. Long End
4. Short Side
5. A Corner

3b. Stacking Test

Due to the limited number of samples, the height of actual containers stacked on the bottom container was 1.5 meters instead of 3 meters, however, a weight equivalent to a 3 meter stack was placed on top to simulate.

4. RESULTS:

The boxes passed all tests. The contents of the containers were not discharged. The packs are considered safe for international transportation in accordance with the United Nations Performance Oriented Packaging Regulations.

REFERENCE MATERIAL:

A: United Nations "Transport of Dangerous Goods", Third Edition

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