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REPO

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1a. REPORT SECURITY CLASSIFICATION
Unclassified

2a. SECURITY CLASSIFICATION AUTHORITY

2b. DECLASSIFICATION/DOWNGRADING SCHEDULE

3. DISTRIBUTION/AVAILABILITY OF REPORT

Unrestricted

4. PERFORMING ORGANIZATION REPORT NUMBER(S)

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6c. ADDRESS (City, State, and ZIP Code)

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11. TITLE (Include Security Classification)

Performance Oriented Packaging Testing of M248E1 Warhead

12. PERSONAL AUTHOR(S)

Anthony D'Angelo, P.E.

13a. TYPE OF REPORT
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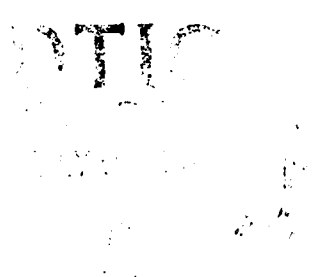
FIELD	GROUP	SUB-GROUP

18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)

Performance Oriented Packaging, POP, M248E1 Warhead, Wood Box, N-03413

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This report contains the testing and test results performed on the M248E1 Patriot Warhead (packed 1 warhead/box).



20. DISTRIBUTION/AVAILABILITY OF ABSTRACT

UNCLASSIFIED/UNLIMITED SAME AS RPT. DTIC USERS

21. ABSTRACT SECURITY CLASSIFICATION

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22a. NAME OF RESPONSIBLE INDIVIDUAL

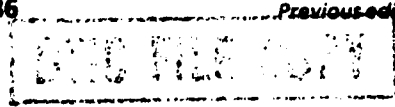
Anthony D'Angelo, P.E.

22b. TELEPHONE (Include Area Code)

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Justification	
By _____	
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Available _____	
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1. DATA

CONTAINER:

Type: Container, Wood
 UN Code: 4C1
 Nomenclature: Box, Wood for Warhead
 Specification Number: PPP-B-621
 Drawing Number: 9340600
 Material: Wood
 Capacity: 83.2 kg (183 lbs.)
 Dimensions: 54.6 cm x 50.8 cm x 68.6 cm (21 1/2 in x 20 in x 27 in)
 Gross Weight: 112 kg (246.4 lbs.)

PRODUCT:

Name: M248E1 Warhead
 Drawing Number: 9340599
 United Nations Number: 0286
 United Nations Packing Group: II
 Physical State: Solid
 Amount per Container: 1 Warhead

2. BACKGROUND:

This report contains the testing and test results performed on the M248E1 Warhead. The wood box (PN 9340600) contains 1 warhead and is packed in accordance with drawing no. 9340599. Tests were performed in accordance with Performance Oriented Packaging test regulations.

3. TEST:

DROP

Boxes were dropped once each from 1.2 meters (4 feet). The boxes were dropped on 3 inch solid steel plate reinforced by 18 inches of crushed rock in 5 different orientations. The orientations were as follows:

- Bottom
- Top
- Side, Long
- Side, Short
- Bottom Corner

LOOSE CARGO VIBRATION

Vibration test were performed on 3 boxes for 1 hour each. The frequency applied caused the box to be raised from the vibrating platform 1/16 in. (1.6 mm).

4. RESULTS:

The containers passed all tests since none of the contents were discharged. They are considered safe for international transportation in accordance with Performance Oriented Packaging regulations.

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5. REFERENCED MATERIAL:

- a. United Nations, "Transport of Dangerous Goods," 6th Edition
- b. Federal Register Part II

**END
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DATE:

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