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SMCAR-AEP

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Performance Oriented Packaging Report for Cutter, Cartridge, Actuated,
Reefing Line, M21

12. PERSONAL AUTHOR(S)

Sniezek, Frank

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FIELD	GROUP	SUB-GROUP

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Performance Oriented Packaging, POP,
Cutter, Cartridge, Actuated, Reefing
Line, M21

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

This POP report is for the Cutter, Cartridge, Actuated, Reefing Line, M21 which is packaged 80 cutters/Mil-B-2427 wood box. This report describes the results of testing conducted.

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20. DISTRIBUTION / AVAILABILITY OF ABSTRACT

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21. ABSTRACT SECURITY CLASSIFICATION

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22a. NAME OF RESPONSIBLE INDIVIDUAL

STEVE RUFFINI

22b. TELEPHONE (Include Area Code)

(201) 724-2515

22c. OFFICE SYMBOL

SMCAR-AEP

I. REPORT NUMBER: DOD POP HMTR/AYD 92-013

II. TITLE: Performance Oriented Packaging Report for Cutter, Cartridge, Actuated, Reefing Line, M21

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army
ARDEC, SMCAR-AEP
HQ, U.S. Army Armament, Munitions, and Chemical Command
Picatinny Arsenal, NJ 07806-5000

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92-31307



DTIC QUALITY INSPECTED 2

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1. DATA SHEET

CONTAINER

Type: Box
UN Code: 4C1
Nomenclature: Box, Packing, Ammunition, for Cutter, Cartridge,
Actuated, Reefing Line, M21
Specification Number: Type II, Grade A, Class 2, Mil-B-2427
Drawing Number: 8863436
Material: Wood
Gross Weight: 50 pounds
Outside Dimensions: 15 13/16 x 12 15/16 x 9 11/32
Inside Dimensions: 12 11/16 x 11 3/8 x 7

PRODUCT

Name: Cutter, Cartridge Actuated, Reefing Line, M21
Drawing Number: 8875978
United Nations Number: 0070
Physical State: Solid
Amount per Container: 80

2. BACKGROUND, TESTS, AND RESULTS

Reference the following document:
a. 49CFR, October 1, 1991 Edition

Instead of testing with the actual item, three wooden boxes built to the same specification but packed with a fiberboard box loaded with sand to a gross weight of 60 pounds were tested.

A Stacking Test was conducted on one container with a weight of 910 pounds for 72 hours in lieu of three containers for 24 hours. This weight exceeds the minimum requirement for a 10 foot stack height which is 771 pounds.

A Loose Cargo Test was conducted on three containers for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicated no leakage or spillage of the contents from the containers following any of the tests conducted, meeting the requirements of the 49 CFR.