

Raven Mass Casualty Rescue Litter

Evaluation Date: 01/01/1998

Company Information:

North American Rescue Products, Inc
481 Garlington Road,, Suite A
Greenville, SC 29615-4619



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Model Number: 90C

Part Number: 60-0001

NSN: 6530-01-432-5114

Device Code: 13818

Description: The North American Rescue Products, Inc., Raven Mass Casualty Rescue Litter (Part Number, RAV-90C, National Stock Number, 6530-01-432-5114) is a new lightweight litter system that is specifically designed to address the special challenges that face today's emergency response teams. The litter is a flame retardant, non-slip cover that allows hazardous chemicals to flow freely away from patients. This non-slip cover increases the rate of effective decontamination while reducing the dangers such as cross-contamination, patients sliding off of wet backboards, and "pooling" of hazardous materials beneath the patient.

Power Requirements: N/A

Comments:

1. The test and evaluation of the North American Rescue Products, Inc., Raven Mass Casualty Rescue Litter has been completed. IAW AFI 11-202 Volume 3, YAML found the EUT Conditionally Approved for use during all phases of flight on selected USAF aircraft (including fixed and rotary wing).
2. The following recommendations and operational restrictions accompany the airworthiness approval (conditional) of the Raven Mass Casualty Rescue Litter:
 - A. The current design of the handle/pole does not allow for the litter to be secured on-board the C-9A Nightingale. The litter pole does not slope downward toward the handle. Because of this, the cantilever arm securing bracket will not reach around the litter pole to secure. To avoid aircraft departure delays, Medical Treatment Facilities and the AE community must not use these litters when C-9A transport is anticipated.

Handle

- B. The corners of the folding hinge, located at mid-section of the litter, are not rounded. They may possibly cause injury to the patient when getting on/off of the litter.

Hinge

- C. Although NATO backrest is compatible with EUT, it was noted that the mesh fabric on litter where backrest secures may become frayed after repeated use.
- D. Additional litter straps should be carried by AECMs. Due to variety of patient sizes, the black securing straps sewn to the EUT may not properly adjust to all patients. The green litter straps commonly used in AE may be necessary to properly position straps across patient's chest and mid-thigh area.
- E. Additional human factor evaluations revealed that the EUT was difficult to assemble and lock into place. The linkages that spread the litter and lock it open, fold in a direction opposite that of the NATO litter. So the usual method of locking litters open, by bracing them against the floor and pressing the spreader open with one's foot, did not work. After repeated unsuccessful attempts, laboratory personnel were able to open and lock the litter by bracing the EUT against a large object (the wall) to push against and gain leverage. Manufacturer representative explained this design is to prevent the accidental collapse of litter should the spreader bars come into contact with a tree stump, rock, etc. when carrying a patient.
- F. In the interest of safety, the use of gloves is recommended when assembling and disassembling the litter. Pinch hazards exist where the litter folds.
- G. Although manufacturer specifications rate "payload" of EUT at over 1200 lbs., maximum weight used during testing was 250 lbs per recommendation of HQ Air Mobility Command.
- H. Manufacturer information on EUT such as "Safety Inspection" and "Cleaning And Storage" can be found at [www. NARescue.com](http://www.NARescue.com).



CONDITIONALLY APPROVED FOR USE ON
United States Air Force Aircraft
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