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13. ABSTRACT Describes a method for evaluation of decontamination equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for functional suitability tests. Applicable to power driven, vehicular or skid-mounted CBR decontamination equipment.		

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U. S. ARMY TEST AND EVALUATION COMMAND  
SYSTEM SERVICE TEST OPERATIONS PROCEDURES

AMSTE-RP-702-107

1 March 1972

Test Operations Procedure 8-3-062

DECONTAMINATING APPARATUS, POWER-DRIVEN,  
VEHICULAR OR SKID-MOUNTED

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SECTION I  
GENERAL

1. Purpose and Scope. This procedure applies to power-driven decontaminating apparatus, vehicular or skid-mounted. Following these test procedures, the item is used to decontaminate personnel, areas, equipment, and facilities which have been contaminated with chemical, biological and radiological agents.

2. Background. Decontaminating apparatus is extremely important since a CBR attack impacts on equipment as well as personnel. The time necessary to return an item of equipment to full operation depends on the efficiency of the decontaminating apparatus and the operating personnel. Success on the battlefield could be decisive when well trained personnel efficiently employ a tried and proven decontaminating apparatus.

3. Equipment and Facilities. In addition to the equipment and facilities described in the documents listed in Section II, the following facilities and devices are required to adequately conduct valid tests:

- a. Chemical agent simulants, as required.
- b. Chemical agent detectors and samples.
- c. Biological agent simulants, as required.
- d. Biological agent detectors and samplers.
- e. Laboratory facilities, for analysis.
- f. Biological agent simulant disseminating devices.



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g. Chemical agent simulant disseminating devices.

4. Supporting Tests. Common Service TOPs, the tests defined in Section III, and other published documents to be considered in formulating a service test plan are as follows:

<u>TEST SUBJECT TITLE</u>	<u>PUBLICATION NO.</u>
a. Operator Training and Familiarization	10-3-501
b. Safety Hazards	2-3-501
c. Preoperational Inspection and Physical Characteristics	2-3-500
d. Human Factors Engineering	2-3-516
e. Stowage	2-3-508
f. Road Mobility, if applicable	2-3-505
g. Cross Country Mobility	2-3-504
h. Fuel and Oil Consumption	2-3-513
i. Compatibility with Related Equipment if applicable	2-3-512
j. Fording	2-3-509
k. Functional Suitability (refer to para 5)	
l. Transportability	2-3-519
m. Air Portability, Internal - Suitability of Supplies and Equipment for	7-3-515
n. Air Portability, External - Suitability of Supplies and Equipment for	7-3-516
o. Logistics-Over-The-Shore (LOTS)	2-3-520
p. Maintainability	2-3-502
q. Maintenance Evaluation - Tools and Test Equipment	2-3-527
r. Maintenance Evaluation - Technical Manuscripts	2-3-528

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s. Reliability

7-3-508

SECTION III  
SUPPLEMENTARY INSTRUCTIONS

5. Functional Suitability.

a. Objective. To determine the functional suitability of the test item as a means of decontaminating personnel areas, equipment and facilities as described in applicable MN or other appropriate documents.

b. Method. The test item is assembled and operated in accordance with technical manuals and other applicable equipment specifications. Selected and trained personnel perform the preoperational checks, ascertain the use of the approved mixtures of decontaminating agents and utilize the apparatus as specified. Records are maintained indicating general malfunction remarks and specific operating failures.

c. Data Required.

(1) Nomenclature of the test item including interchangeability of parts and components.

(2) Times required for assembly and disassembly.

(3) Deficiencies and shortcomings observed during assembly, operation and disassembly.

(4) Personnel required to assemble and operate the test item.

(5) Remarks concerning operation of the test item.

d. Analytical Plan. At the completion of data collection phases, test results are evaluated to determine whether or not the test item meets the stated performance requirements.

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