

MAR 6 1963

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1. Review Date: <u>6/29/98</u>	Determination (Circle Numbers):
2. Reviewer: <u>W. L. Lape</u>	1. Classification Retained
3. Reviewer: <u>W. L. Lape</u>	2. Classification Changed to: <u>UNCL</u>
4. Reviewer: <u>W. L. Lape</u>	3. Contains No DOE Classified Information
5. Reviewer: <u>W. L. Lape</u>	4. Coordinate With: _____
6. Reviewer: <u>W. L. Lape</u>	5. Contains UCAF: _____
7. Reviewer: <u>W. L. Lape</u>	6. Comments: <u>Correct</u>

File No.: TX-54, 3-2
T-Number: 19187
Completion Date: 12/28/63

To: MR. W. E. TREIBEL - 7146
Attn: Mr. J. A. Anderson

Re: Drop Testing of B54-0 (SADM) Unit "0" (U)

RECEIVED

MAR 7 1963

Summary of Test

The B54-0 (SADM) and the H-911 container were dropped onto dirt from various heights up to three feet. All live explosive components were included in the test unit. Minor structural damage was suffered by the unit. The unit was never rendered unsafe by the shocks and no explosive components were activated.

CENTRAL RECORD FILE

Object and Authorization

The test objective is to aid Division 7146 with evaluation of the B54-0 (SADM) containing live high explosive components when the unit is subjected to a handling shock environment. The test was authorized in an environmental test order (T-19187) from Division 7146 to Division 7331.

Procedure and Results

The unit was dropped onto dirt and concrete targets as indicated in Table I. An electrical check of the firing circuit between the MC-1321 Interval Timer and the MC-1090 Electric Detonator was conducted using the PT-1118 tester. At all times during the test, the firing circuit remained in the safe position. None of the explosive components were activated during the test. Damage to the weapon and H-911 is reported in Table I.

J. H. Mathews

Test Engineer: F. H. MATHEWS - 7325-2

R. P. May

Test Project Engineer: R. P. MAY - 7331-1

54/Sadm
3-2

Approved By: *R. S. Huoper* R. S. HUOPER - 7331-1

Enclosure: Table I

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: <u>U</u>	AUTHORITY: <u>W. L. Lape</u>
PERSON CHANGING MARKING & DATE: <u>Emelda Selph 7/1/98</u>	RECORD ID: <u>98SN2689</u>
PERSON VERIFYING MARKING & DATE: <u>W. L. Lape 7/1/98</u>	DATED: <u>6/29/98</u>

0552

05447	PROGRAM
30173	ORG.
208	DATE
63117	

UNCLASSIFIED

Mr. W. E. Troibel - 7146

52

X-19187

Copy to:

J. Aragon, GMX-3, IASL

Attn: R. S. Gauler and W. A. Spencer

J. P. Ford, 1321

C. S. Williams, Jr., 1442

D. S. Bliss, 2344

S. T. Othmer, 7181

D. M. Bruce, 7182

P. Syroid, 7184

G. L. Johnson, 7523

E. H. Copeland, 7331

Central Records File, 3421-3

0553

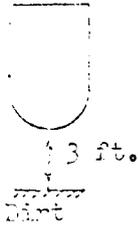
UNCLASSIFIED

DROP CONFIGURATION AND DAMAGE
DROP TEST OF E-54 SADM UNIT "B"
PROJECT NO T-19124

DROP CONFIGURATION

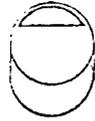
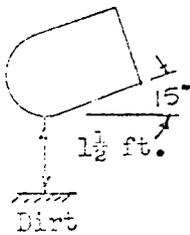
DAMAGE

1-a



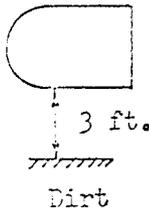
No damage to B-54, Slight crush of H-911 foam. Metal nose cap broken from H-911 foam.

1-b



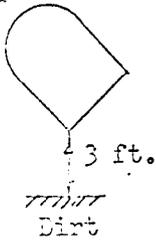
No damage to weapon. Severe crush of foam at point of impact. Joint between spherical foam piece and cylindrical piece broken.

1-c



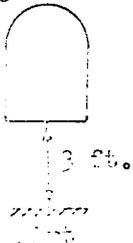
No damage to weapon. Slight crushing of foam.

1-d



No damage to weapon. Severe crush of foam. High density foam band at rear broken into fragments.

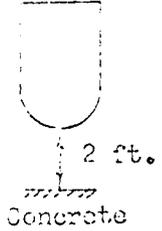
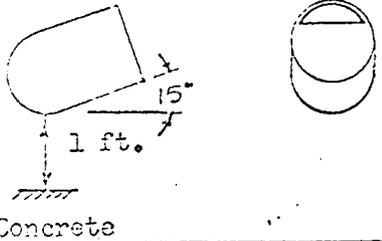
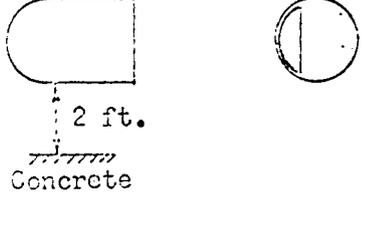
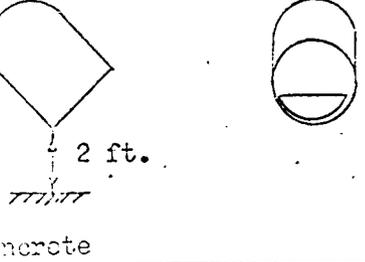
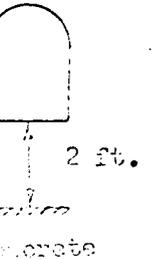
1-e



No damage to weapon. Moderate crush of foam. Removal of lock secured cover was not impaired. At the completion of this drop, the foam sections were replaced.

TABLE I

DROP CONFIGURATION AND DAMAGE.
 DROP TEST OF B-54 SADM UNIT "D"
 PROJECT NO T-19184

DROP CONFIGURATION	DAMAGE
<p>2-a</p>  <p>2 ft. Concrete</p>	<p>No damage to weapon. Severe crushing of foam.</p>
<p>2-b</p>  <p>1 ft. 15° Concrete</p>	<p>Slight dent in side of weapon at point of impact. Severe crush of foam at point of impact. Seam between spherical foam cap and cylindrical cap broken.</p>
<p>2-c</p>  <p>2 ft. Concrete</p>	<p>No damage to weapon. Slight crush of foam.</p>
<p>2-d</p>  <p>2 ft. Concrete</p>	<p>Weapon case which cut through foam and cloth bag was abraded by contact with concrete. Severe damage to foam.</p>
<p>2-e</p>  <p>2 ft. Concrete</p>	<p>Weapon case cut through foam and cloth bag. Slight abrasion of weapon against concrete. Moderate foam damage. Removal of lock secured cover was not impaired.</p>