

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 st Review Date: <u>8/26/98</u>	Determination (Circle Numbers):
Authority: <u>W.C. Layne</u>	1. Classification Retained
Name: <u>W.C. Layne</u>	2. Classification Changed to: <u>U</u>
2 nd Review Date: <u>8/27/98</u>	3. Contains No DOE Classified Information
Authority: <u>ADD</u>	4. Coordinate With:
Name: <u>W.C. Layne</u>	5. Contains UCAIT
	Comments:
	<u>Redacted</u>

JUL 15 1960

XW-38, 3.2

T-16546

Project No. 13.804.40

TO: DISTRIBUTION

Re: Rain and Salt Fog Tests of XW-38 TRM-3

At the request of Division 8124, XW-38X1 TRM-3 warhead in an XH-770 shipping container was subjected to wet, dense salt fog for 50 hours and to 4 in./hr. simulated rainfall for two hours in accordance with SCS-5, Paragraph 4.1 & 7 and the XW-38X1 TRM Test Handbook.

Prior to placing the unit in the test chamber the warhead cover was installed and the warhead was pressurized with nitrogen to 5 psig. At the end of 30 minutes the pressure had leaked down to 2 psig. Upon completion of the salt fog and rain tests the pressure was 0 psig. The major leaks appeared to be around connectors and the pressure fitting.

Electrical tests of the warhead were made before and after the salt fog and rain tests. During the preliminary electrical check using the TRM tester & a 23V power supply the following values were recorded:

<u>Voltage</u>		<u>Continuity</u>	
E _x	41 V	1	1.7 ohm
E ₁	17.5 V	2	1.8 ohm
E ₂	29.5 V	3	1.7 ohm
		4	1.8 ohm
		5	open
		6	0.1 ohm
		7	open
		8	open

JUL 22 1960

CENTRAL RECORD FILE

The motor in the MC-1243 sounded as though it had a worn bearing.

The following values were recorded after the salt fog & rain tests.

<u>Voltage</u>		<u>Continuity</u>	
E _x	13.25 V	1	1.75 ohm
E ₁	6.5 V	2	1.75 ohm
E ₂	7 V	3	1.75 ohm
		4	1.75 ohm
		5	open
		6	1.75 ohm
		7	open
		8	open

CENTRAL RECORD FILE	
FILE No.	XW-38
	3-2

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: <u>U</u>	AUTHORITY: <u>W.C. Layne</u>
PERSON CHANGING MARKING & DATE: <u>Emelda Selah 9/8/98</u>	RECORD ID: <u>98SN3895</u>
PERSON VERIFYING MARKING & DATE: <u>W.C. Layne 9-9-98</u>	DATED: <u>8/27/98</u>

UNCLASSIFIED

Distribution

7-16946

The MC-1745 notes recorded during the previous work. Voltages were checked with a meter in addition to being recorded on the oscilloscope, giving the same results.

There was no observed evidence of change in the material as a result of the salt fog and rain tests. There was no evidence of normal lamination of color or any other physical change in the material.

[Signature]
T. H. FAHYER - 1610-5

[Signature]
Explored by: L. G. SUMNER - 1610-2

ENC:1613-0:as

- Copy to:
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4-4164

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JUL 19 1950
CENTRAL RECORD FILE

FILE NO.	mc-1243
	3-

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