

UNCLASSIFIED

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 st Review Date: <u>9/17/98</u>	Determination (Circle Numbers):
Authority: <u>W.C. Layne</u>	Classification Retained: <u>U</u>
Name: <u>W.C. Layne</u>	Classification Changed to: _____
2 nd Review Date: <u>9/24/98</u>	3 Contains No DOE Classified Information: _____
Authority: <u>ADD</u>	4 Coordinates With: _____
Name: <u>W.C. Layne</u>	5 Contains UCAF: _____
	6 Comments: <u>None</u>

JUL 10 1959
 XW-40, 3-2
 Project No. T-16363
 Case No. 787.00
 Completed 5-29-59

TO: DISTRIBUTION

Re: Temperature Shock of the XW-40

The XW-40 warhead was subjected to three cycles of temperature shock, i.e., +160 F for four hours then within 5 minutes -65 F for four hours. The purpose for this test was to determine if O-rings, made with pale crape instead of smoked sheet, would still retain the pressure seal on the warhead.

All joints and connectors were checked with a leak probe and the internal pressure measured before and after each temperature cycle. There was no appreciable pressure loss or leaks due to the new O-rings (less than .5 psi per day). It is therefore recommended that the new O-rings be used in this warhead if desired.

R. F. Harlan

1613 Project Engineers: R. F. HARLAN - 1613-3

Original Signed By
 R. S. HOOPER

Approved by: R. S. HOOPER - 1613-3

RFH:1613-3:ec

Copy to:

- W. E. Treibel, 1246
- Attn: L. L. Keller
- W. A. Gardner, 1610
- J. M. Wiesen, 1592
- C. L. Gomel, 5523
- R. K. Smeltzer, 4721-3

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
DOWNGRADING OF DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: <u>U</u>	AUTHORITY: <u>W.C. Layne</u>
<u>Emilda, Selph</u> <u>9/28/98</u>	RECORD ID: <u>98SN 4450</u>
PERSON CHANGING MARKING: <u>W.C. Layne</u> <u>9/28/98</u>	DATED: <u>9/24/98</u>
PERSON VERIFYING MARKING & DATE: _____	

RECEIVED

JUL 18 1959

CENTRAL RECORDS FILE

Smg
 XW-40
 3-2

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