

AUG 10 1955

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1. Review Date: 7/6/98	Classification (Circle Number):
2. LEAD: [Signature]	1. Classification Retained
3. Reviewer: [Signature]	2. Classification Changed to: UNCL
4. Authority: ADD	3. Contains No DOE Classified Information
5. [Signature]	4. Contains With:
	5. Contains UNCL:
	6. Comments:

TX-15-3-2
 Case No. 635.00
 Ref. Sym. 1611
 Project No. ET-1945 K
 Completed 6/28/55

TO: DISTRIBUTION

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Re: Pressure Test of a TX-15 Grommet

AUG 11 1955

Object of Test

R & D FILES

This test was performed to determine the approximate leakage rate (with a 2 psig pressure differential) through a rubber grommet used on the TX-15 aligning plate. The electrical cables between the aft section and warhead pass through this grommet. The test was requested by Division 1241, Messrs. D. Webb and E. Marsh.

Summary of Results

Results of this test (See Table I) indicated a minimum leakage rate (from a 1952 cu. in bell jar) of 1 millimeter per minute.

Procedure and Results

The 2 1/2 inch diameter grommet, fitted with sample cables 5 inches long, was inserted into a clearance hole on the bottom plate of a bell jar (1952 cu. in.) vacuum chamber. The chamber was stabilized at a 2 psig vacuum and leakage rates were observed. Care was taken to eliminate leakage through the open cable ends - soapy water placed on various parts of the grommet indicated that the major leakage was confined to between some of the cables and the grommet.

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: U	AUTHORITY: W.C. Layne
Emelida Selph 7/15/98	RECORD ID: 98SN2956
PERSON CHANGING MARKING & DATE: W.C. Layne 7/16/98	DATED: 7/13/98
PERSON VERIFYING MARKING & DATE:	

Test Conducted by R. S. HOOVER - 1611-4

Approved by D. WILLIAMS - 1611-4

RSH:1611-4:dr

Enc: Table I

Copy to:

- R. L. Brin, 1241
 - T. B. Morse, 1610
 - C. C. McDonald, 1630
 - R. L. Wagar, 1611
 - R. E. Fisher, 1621
 - C. L. Comel, 5523
 - R. K. Smeltzer, 1922-2
 - F. C. Hale, 1922-3
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CDL No.	
ACCOUNTABILITY CARD	
FILE No.	TX-15
	3-2

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Ref. Sym: 1611
Project No. ET-1945 K

TABLE I

Summary of the Pressure Tests of the Grommet
Used in the TX-15 Alignment Plate

Test No.	Condition of Grommet and Cables	Time Duration (minutes)	Leakage (MM of HG)
1.	Cables dry, no effort made to align grommet	1	15
2.	Split edges of grommet aligned	1	5
3.	Split edges of grommet aligned	1	0.4
4.	DX4 compound placed on cables	15	77
5.	Cables wiped dry	15	12
6.	Grommet removed and cleaned	1	2
7.	Grommet position rotated	1	2
8.	Grommet position rotated	30	32
9.	Split edges aligned	1	1
10.	Same condition	15	34
11.	Grommet stopper loosened 1 turn	1	20
12.	Grommet stopper retightened 1 turn	1	9
13.	Grommet split edges realigned	1	1
14.	Grommet stopper tightened 1 turn	15	15

NOTE: Volume of bell jar used: 1952 cu. in.

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