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JAN 14 1960

0015

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 st Review Date: <u>8/25/98</u>	Determination (Circle Numbers):
Authority: <u>W.C. Layne</u>	1. Classification Retained
2 nd Review Date: <u>8/28/98</u>	2. Classification Changed to: <u>U</u>
Authority: <u>ADD</u>	3. Contains No DOE Classified Information
Name: <u>W.C. Layne</u>	4. Coordinate With: _____
	5. Contains UCAI? _____
	6. Comments: <u>OK for O-ring</u>

File: MK-36, 3-2
 T-16620
 12-608.01
 Completed: 1-4-60

TO: DISTRIBUTION

Re: Leakage Tests of Five Mk-36 Pullout Valves, Serial Nos. 6335, 6336, 1010, 6331, 6016

Summary of Test

In order to determine if leakage would occur, five Mk-36 pullout valves were subjected to 100 actuations each on two sets of O-rings (using two different types of lubricant), for a total of 200 actuations. Leakage tests were performed during each series of actuations. No leakage occurred.

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CENTRAL RECORD FILE

Authorization for Test

This test was requested in a Work Order Authorization from Division 1218. Mr. J. Irwin was the consultant.

Instruments Used

A gauge Meriam manometer, Serial No. N3437, was used.

CENTRAL RECORD FILE	
FILE NO.	<u>MK-36</u>
	<u>3-2</u>

Procedure and Results

Five Mk-36 pullout valves, Serial Nos. 6336, 6335, 1010, 6331, 6016, were subjected to 100 actuations each on two different sets of O-rings. The first set of O-rings were lubricated with a DC-4 silicon grease. The second set of O-rings were lubricated with a MIL-L-644 oil lubricant. Out of the total 100 actuations, 95 were first performed at room temperature and five were later performed at -65°F. The units were checked for possible leakage after intervals of five actuations up to 15, and then in intervals of ten actuations up to 75. The additional actuations occurred during the leakage tests. A pressure of 53 mb gauge was applied to each of the five ports for five minutes. The tolerance leakage rate was one mb in five minutes. No leakage occurred at any time throughout the test.

Test Conducted by: B. L. Schmedeman B. L. SCHMEDEMAN - 1611-4

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C. D. McGinnis

Project Engineer: C. D. MCGINNIS - 1613-3

BLS:1611-4:a1

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 Selph 9/28/98</u>	RECORD ID: <u>985N3896</u>
PERSON VERIFYING MARKING & DATE: <u>Carmelinda Ballish 8/28/98</u>	DATED: <u>8/28/98</u>



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To: Distribution

-2-

T-16620

Copy to:

E. L. Harley, 1218

Attn: J. Irwin

W. A. Gardner, 1610

J. M. Wiesen, 1592

J. R. Harrison, 5523

C. D. McGinnis, 1613-3

R. K. Smeltzer, 3421-3

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