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0729

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SANDIA SYSTEMATIC DECLASSIFICATION REVIEW

1st Review Date: 9/28/98	Determination (Circle Numbers)
Authority: ADC ADD Wayne	Classification Retained
Name:	Classification Changed to: U
2nd Review Date: 9/29/98	Contains No DOE Classified Information
Authority:	Coordinate With:
Name: RB Cramer	Contains UCAI? NO
	Comments: OK for Openmet

TCG-NNT-1

File: MC-1403, 3-2
T-17553
Project No. 13.883.00
RS 7321/9772
MAY 25 1961

TO: DISTRIBUTION

Re: Hydrostatic Test of MC-1403 Center Subassemblies (U)

SEP 14 '65

Summary

An external hydrostatic pressure test was performed on nine MC-1403 Center Subassemblies. Leakage rates experienced by the nine subassemblies were indicated by the volume of water that had leaked in during test. This volume varied from a low of zero ounces of water in 30 minutes to a high of 24 ounces in 15 minutes.

INVENTORIED AUG 6 1964 3427-1

Object of Test

The test objective is twofold: (1) To qualify each center subassembly as a leaker or a non-leaker so that units can be selected for use in depth bomb applications and (2) To aid organization 7124 in establishing a permissible leak rate.

This test is one of a series of pressure tests on TX-57 center subassemblies.

Authorization for Test

The test was requested by Division 7124 in a Work Order Authorization dated February 6, 1961. Mr. E. G. Kadlec was the consultant.

RECEIVED MAY 29 1961 CENTRAL RECORD FILE

Test Equipment and Instrumentation

1 - Baldwin SR-4 strain indicator, Serial No. J-59101
1 - Baldwin SR-4 pressure cell, 1000 psi, Serial No. 9506
1 - Pressure Vessel

ACCOUNT CARD FILE No. MC-1403 3-2

Procedure

Each center subassembly was placed in a sealed pressure vessel filled with water and then subjected to an external hydrostatic pressure. The

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
DOWNGRADING OR DECLASSIFICATION STAMP

CLASSIFICATION CHANGED TO: U	AUTHORITY: R B Cramer
Emelda Sejah 9/30/98	RECORD ID: 98SN4483
PERSON CHANGING MARKING & DATE	
WC Wayne 9/30/98	DATED: 9/29/98
PERSON VERIFYING MARKING & DATE	

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pressure was held until leakage became excessive or until various times up to one hour as shown in Table I.

(c)

E. W. COOMES - 7322-1

7321 Project Engineer: R. P. MAY - 7321-5

Approved by: R. S. HOOPER - 7321-5

ERC:7322-1:dc

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TABLE I

Leak Rate of Center Subassemblies

Center Subassembly	Pounds per Square Inch: Maximum Pressure	Minimum Pressure	Pressure Change	Period Pressurized: Minutes	Volume of Leakage: Ounces (Water)
Case #8	300	---	---	15	14
Flight #21	300	293	7	30	1
Case #8	300	142	158	15	8
Case #10	360	0		No time interval	16
Case #10	360	60	300	7	16
Case #13	300	294.5	5.5	60	1
Case #19	Leak rate approx. 25 psi per min.			15	24
Case #13	300	298.5	1.5	30	0
Case #57-31	300	280	20	60	3

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