

UNCLASSIFIED

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 <sup>st</sup> Review Date: <u>6/9/98</u>	2 <sup>nd</sup> Review Date: <u>6-16-98</u>
Authority: <u>ADD</u>	Authority: <u>ADD</u>
Name: <u>W.C. Layne</u>	Name: <u>W.C. Layne</u>
Classification: <u>UNCL</u>	Classification: <u>UNCL</u>
Classification Changed to: <u>UNCL</u>	Classification Changed to: <u>UNCL</u>
Contains No DCB Classified Information	Contains No DCB Classified Information
Coordinate With: _____	Coordinate With: _____
Coordinate UCAIT: _____	Coordinate UCAIT: _____
Comments: _____	Comments: <u>UNCLASSIFIED</u>

MAY 10 1960  
 KW-45, 3-2  
 Project No. T-16927  
 Case No. 804.15  
 Completed: 3-19-60  
 BS 1613/217

INVENTORIED  
 AUG 6 '64  
 8427-1

TO: DISTRIBUTION

Re: Pre-Centrifuge Test of KW-45 Warhead and Jig

Summary of Test

To determine the adequacy of the KW-45 warhead and centrifuge jig to withstand the proposed centrifuge tests; three separate tests were performed.

Test No. 1 - A longitudinal load of 103 g (27,600 pounds) was applied to the warhead mounted in the centrifuge jig, with no indication of yielding or failure.

Test No. 2 - A vertical load of 69.6 g (10,040 pounds) was applied to the warhead mounted in the centrifuge jig, with no indication of yielding or failure.

Test No. 3 - A combined longitudinal and vertical load of 109 g (29,300 pounds) longitudinal and 21 g (3070 pounds) vertical was applied with no indication of failure.

Object of Test

The object of this test was to determine if the KW-45 warhead adapter plate and centrifuge barrel jig were structurally adequate for the proposed centrifuge tests.

Test No. 1 was performed to test the mounting of the adapter plate to the centrifuge jig.

Test No. 2 was performed to test the mounting of the warhead to the adapter plate.

The "g" loading was determined using the weights as follows:

Weight of warhead	=	146 lbs.
Weight of Adapter Plate	=	122 lbs.
Total Weight	=	268 lbs.

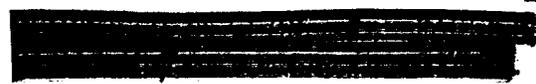
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 3428-3

FILE NO.	XW-45
	3-2

Authorization for Test

This test was requested in a Work Order Authorization from Division 1284, to Division 1613, dated March 16, 1960. Mr. Romine, 8124, was the consultant.

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 6/23/98</u>	RECORD ID: <u>98SN2421</u>
PERSON VERIFYING MARKING & DATE: _____	DATED: <u>6-15-98</u>



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Test Equipment and Instrumentation

The following equipment was used:

- 2 - Calibrated pull bars, Nos. 4 and 6
- 2 - Hydraulic cylinders
- 1 - Load maintainer

Procedure

The longitudinal load was applied by means of an adapter between the warhead and adapter plate, the vertical load was applied at the C.G. of the warhead by means of a wire mesh sling (see Table I). Loads were applied with a load maintainer and measured with calibrated pull bars.

Results

A longitudinal load of 103 g (27,600 pounds), a vertical load of 68.6 g (10,040 pounds), and a combined load, 109 g (29,300 pounds) longitudinal and 21 g (3070 pounds) vertical, gave no indication of yielding or failure.

*H. A. Warrick*

H. A. WARRICK - 1612-1

*D. W. Bauder*

D. W. BAUDER - 1613-3

1613 Project Engineer:

Approved by:

*R. S. Hooper*

R. S. HOOPER - 1613-3

HAW:1612-1:ec

**DISTRIBUTION:**

- 1/7A - M. O. Jones, 8124
- 2/7A - W. A. Gardner, 1610
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- 5/7A - J. R. Harrison, 5523
- 6/7A - P. H. Adams, 1615  
Attn: R. L. Ault
- 7/7A - R. E. Smeltzer, 3421-3

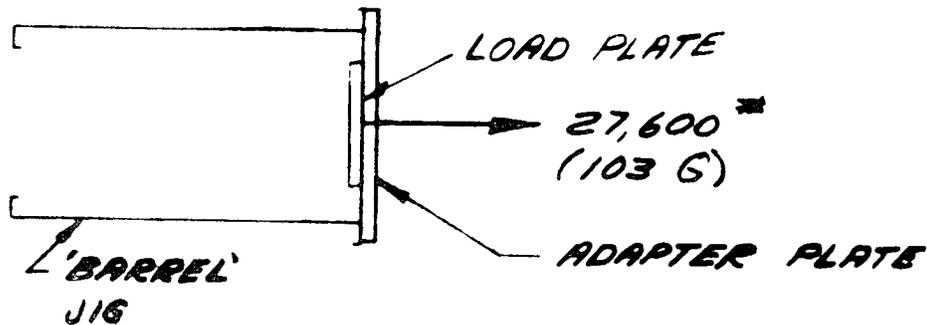
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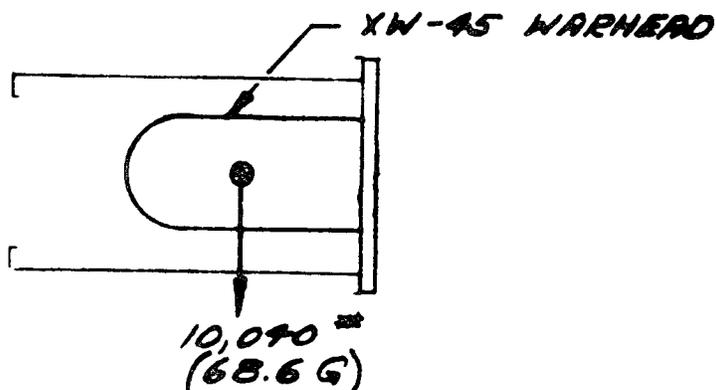
TABLE # 1

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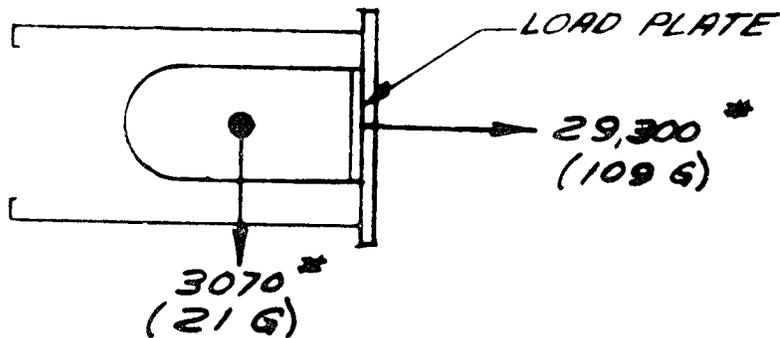
TEST # 1



TEST # 2



TEST # 3



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