SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
DOWNGRADING OR DECLASSIFICATION STAMP
CLASSIFICATION CHANGED TO: U
AUTHORITY: R B Crane
PERSON CHANGING MARKING & DATE: Carmela Gillespie 12/14/98
RECORD ID: 99SN0330
PERSON VERIFYING MARKING & DATE: W C Hayes 12/16/98
DATED: 10/29/98

[redacted]



JAN 29 1953

Ref. Symbol: 1611
Project No. ET-1107
Completed 11/12/52

UNCLASSIFIED

MR. L. A. DUNN - 1284

Re: Vacuum Test of an XH-185 Container Modified by Halving the Rib Spacing

## Object of Test

The object of this test was to determine how much vacuum, not exceeding -2 psig, the XH-185 container would withstand, what the mid-span deflection would be at this vacuum, and the amount of permanent set remaining at mid-span after the release of this vacuum.

## Function of Object Tested

The XH-185 is a container used to store and ship the XW-5 basic assembly.

## Authorization for Test

This test was requested by Division 1284 in a Work Order Authorization dated November 6, 1952. Mr. W. E. Baker was the consultant.

## Procedure

A. Test Conditions:

A vacuum pump and a mercury manometer were connected to the XH-185. A string was stretched along the side parallel to an 13-1/2 inches above the base flange of the container and the clearance was noted. A vacuum of -2 psig was then applied and the deflection was noted at the mid-point of the string. The vacuum was then released and the residual set noted.

B. Equipment Used:

Trimount mercury manometer, Serial No. 7883
Welch Duo-seal vacuum pump, Serial No. 5333-0

TCG-NNT-1
SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
Review Date 10/29/98
Authority DOE ADD
Name R B Crane
Review Date Not Reg'd per
Authority ADD
Name DOE/OD 5/7/97 Memo
Determination (Circle Numbers):
1. Classification Retained
2. Classification Changed to U
3. Contains No DOE Classified Information
4. Coordinate With
5. Contains UCNI? no
6. Comments: OK for Approved

## Results

The XH-185 withstood the -2 psig vacuum satisfactorily. The deflection at mid-span (midway between the ends of the container 13-1/2 inches above its flange) was 1/4 inch. The amount of permanent set was about 3/32 inch. The container width at this point was 50 inches.

Test Conducted by H. G. PAGE - 1611
Original Signed By
R. L. WAGAR
Approved by R. L. WAGAR - 1611

HGP:1611:nj

BG
H-185
3-2

Copy to:
J. R. Townsend - 1600
A. F. Cone - 1610
T. B. Morse - 1610
J. M. Ralls - 1521-4 Attn: 1600 Drawing File

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