

1284

1521-4
H-189

(111)

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 st Review Date: 10/29/98	Determination (Circle Numbers)
Authority: RBCraney	1. Classification Retained <input checked="" type="checkbox"/>
2 nd Review Date: not added for	2. Classification Changed to <input checked="" type="checkbox"/> U
Authority: ADO	3. Contains No DOE Classified Information <input type="checkbox"/>
DOE/OD-7/17/11 memo	4. Coordinates With <input checked="" type="checkbox"/> UCAIT
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APR 17 1953
 Case No. 433 ✓
 Ref. Symbol: 1611
 Project No. ET-1169
 Completed 12/19/52

TCG-NNT-1

MR. L. A. DUNN - 1284

UNCLASSIFIED

Re: Pressure Test of H-189 (Pre-Production Model No. 31)

Object of Test

The object of this test was to determine the leakage rates of the H-189 when subjected to positive and negative pressure differentials of 5 and 2 psig.

Function of Object Tested

The H-189 is an F&F container to be used with the XW7/CP.

Authorization for Test

This test was requested by Division 1284 in a Work Order Authorization dated December 6, 1952. Mr. G. Lawson was the consultant.

Procedure

A. Test Conditions:

The H-189 was inflated to a pressure of 5 psig and the variations of pressure (mm of Hg) and temperature (°F) with time were observed and recorded.

Next, the container was evacuated to 5 psig and the variations of pressure and temperature with time were again obtained.

The same procedure was followed for pressures of +2 and -2 psig.

B. Equipment Used:

- Canco Hyvac vacuum pump, S-4091
- Sharpe pressure pump, Model 1-N, Serial No. 19424
- Wallace & Tiernan manometer, Type Pa-155, Serial No. WP-69320
- Trimount manometer, Type 60A, Serial No. 7882

CENTRAL RECORD FILE
 RECORD NO. 14-189
 DATE 5-12

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: U	AUTHORITY: RBCraney
PERSON CHANGING MARKING & DATE: Curmulo Guller 12/19/98	RECORD ID: 99SN0334
PERSON CHANGING MARKING & DATE: WC 12/16/98	DATED: 10/29/98

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APR 17 1953

Ref. Symbol: 1611
Project No. ST-1169

MR. L. A. DUNE - 1284

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Results

The container's initial leakage rate at an internal pressure of 5 psig was 2 mm in 15 minutes. After tightening several of the cover-to-base bolts with a 12 inch crescent wrench, this leakage rate was reduced to 6.5 mm in 20 hours, or an average of 0.081 mm in 15 minutes.

When the container was evacuated to 5 psig, the leakage rate was 4 mm in 20 hours, or an average of 0.05 mm in 15 minutes.

When pressurized or evacuated 2 psig, the leakage rates were less than 1 mm in 20 hours.

Test Conducted by *J. H. Newman* J. H. NEWMAN - 1611

Original Signed By
R. L. WAGAR

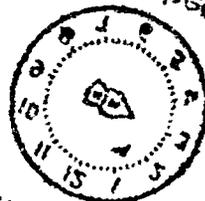
Approved by R. L. WAGAR - 1611

JHN:1611:bb

Copy to:

- J. R. Townsend, 1600
- A. F. Coss, 1510
- L. J. Biskner, 2530
- L. E. Lanckin, 1260
- J. M. Ralls, 1621-4 (Attn: 1600 Drawing File)
- T. B. Morse, 1610

Organization 1610
Dispatched BA



APR 15 1953

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