[redacted]

UNCLASSIFIED

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
1st Review Date: 7/2/98
Authority: ADD
Name: [illegible]
2nd Review Date: 7/06/98
Authority: ADD
Name: W. Layne
Classification Changed to: U/OUO
Contains No DOE Classified Information
Contains Sensitive Information
Contains UCNI
Comments: [illegible]

OCT 1 6 1962

File No: XW-55, 3-2
T-17836
Test Completed: 7-6-62

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
DOWNGRADING OR DECLASSIFICATION STAMP
CLASSIFICATION CHANGED TO: U
Emilio Sedo 7/15/98
PERSON CHANGING MARKING & DATE
WC Layne 7/16/98
PERSON VERIFYING MARKING & DATE
AUTHORITY: W. C. Layne
RECORD ID: 98SN281
DATED: 7/6/98

MR. J. D. BENTON - 8125
Attn: M. R. Wells

Re: Roll Acceleration Test of the XW-55 TRM-1 (U)

PROGRAM 0 5 6 0
CATEGORY 3 0 2 1 3
ORG. 8 1 2 5
DATE 3 7 1 2 6 2

The XW-55 TRM-1 was subjected to three roll acceleration tests with a peak angular acceleration of 40 radians/sec^2 sinusoidally varying at a frequency of 2 cps and to three roll acceleration tests with a peak angular acceleration of 40 radians/sec^2 sinusoidally varying at a frequency of 4 cps.

The above tests were accomplished by means of the test facility shown in Figure 1. The XW-55 TRM-1 was attached to the facility through mounting holes in the nose of the XW-55 and twisted around its longitudinal axis, by hand, and latched into place by means of the latching pin. The recorder was started, the handle was pulled up, and the XW-55 TRM-1 was released and free to rotate about the torsion rod.

Equal length but different diameter torsion rods were used to attain the two different frequencies with the same peak angular acceleration.

This test was requested in an Environmental Test Request from M. R. Wells, 8125-2, to R. S. Hooper, 7321-5, dated May 24, 1961. M. R. Wells, was the consultant.

The setup for this test is shown in Figure 1. The accelerometer location is shown in Figure 2. The accelerometer used in this test was a Genisco Accelerometer, Serial No. 57340, Model No. 2389-10, and Range ±2g.

The equipment used during this test was a Sanborn, Dual Channel DC Amplifier Recorder, Serial No. 412, Model No. 320, S-117045 and a 6 volt dry cell battery.

A typical record is shown in Figure 3.

There was no visible damage to the XW-55 TRM-1 as a result of this test. Electrical functional checks recorded before and after this test will be reported in Environmental Test Request T-10577.

RECEIVED
OCT 18 1962
CENTRAL RECORD FILE

R. E. Howell
R. E. HOWELL - 7323-2

SENT TO FILE
BY
FILE NO. XW 55
3-2

[redacted]

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1689

[redacted]

[redacted]

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Test Project Engineer: J. E. BEAR - 7321-5

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

REH:7323-2:mw

Encl: Figures 1, 2, 3,

Copy to:
Livermore Central File, 8233-2
E. H. Copeland, 7321
Central Record File, 3421-3

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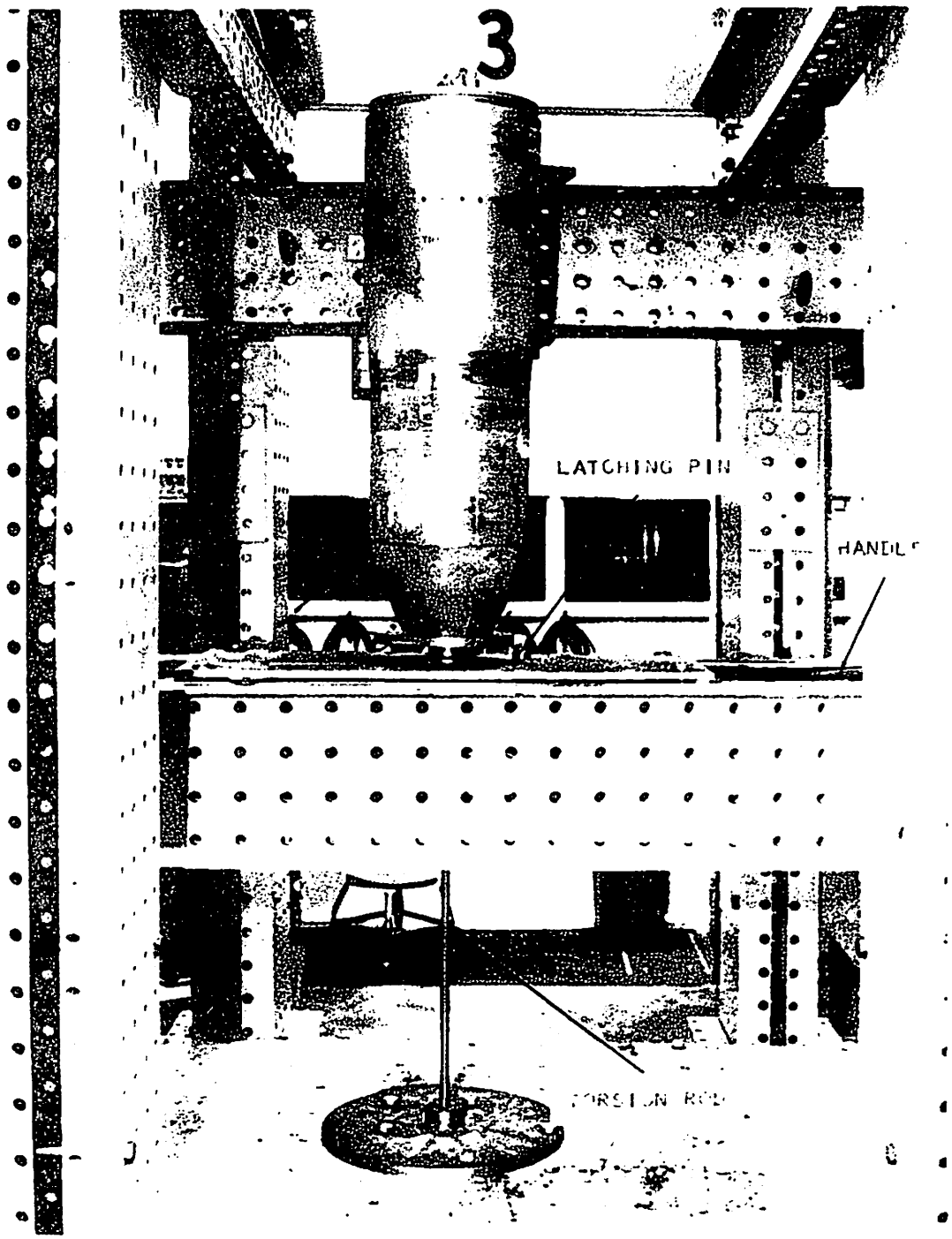
[redacted]



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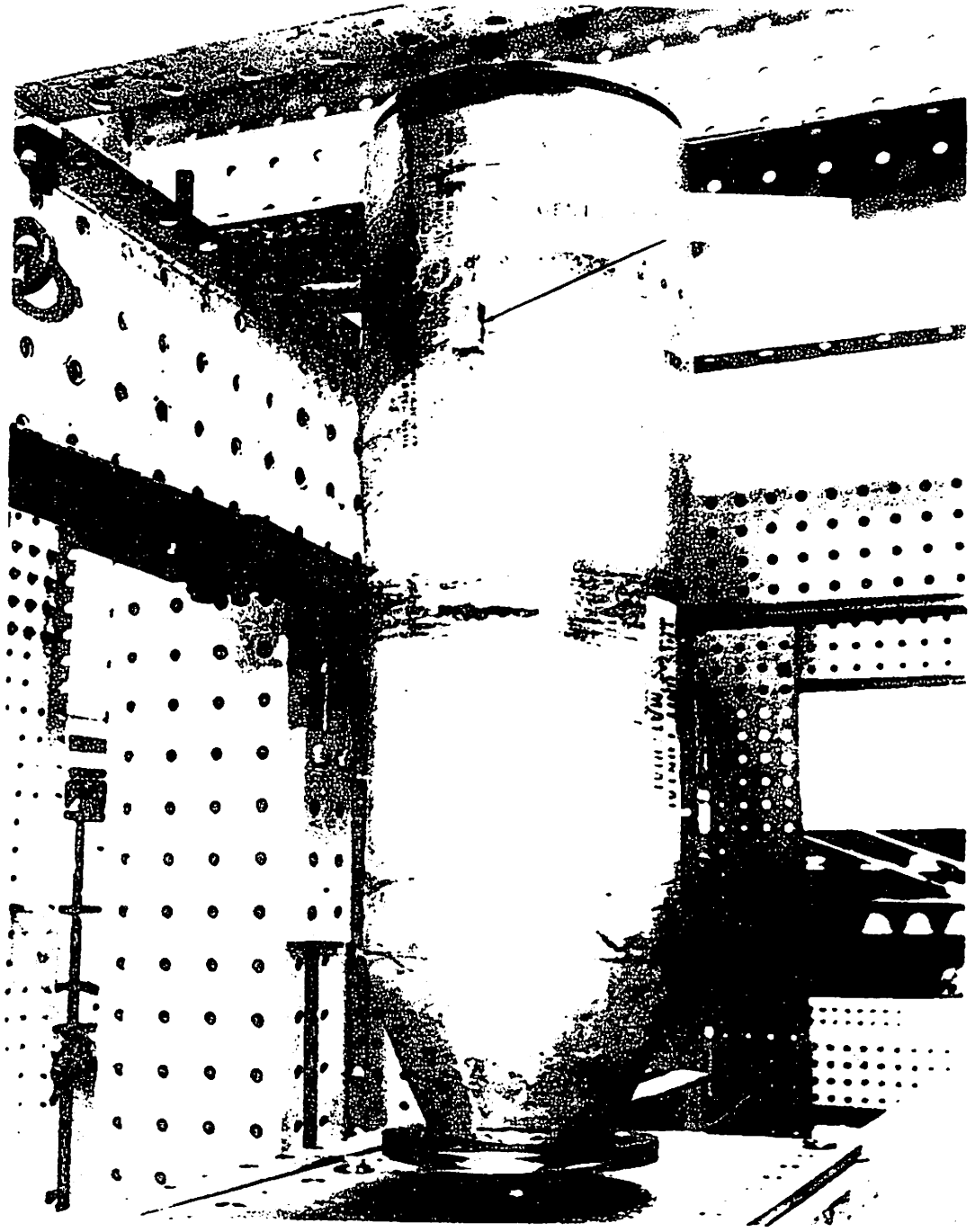

[redacted]

[redacted]

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LOCATION	DIRECTION	CAL. VALUE g
WARHEAD OUTSIDE 10½" DOWN FROM TOP 344° FROM 0°	RADIAL	1.6

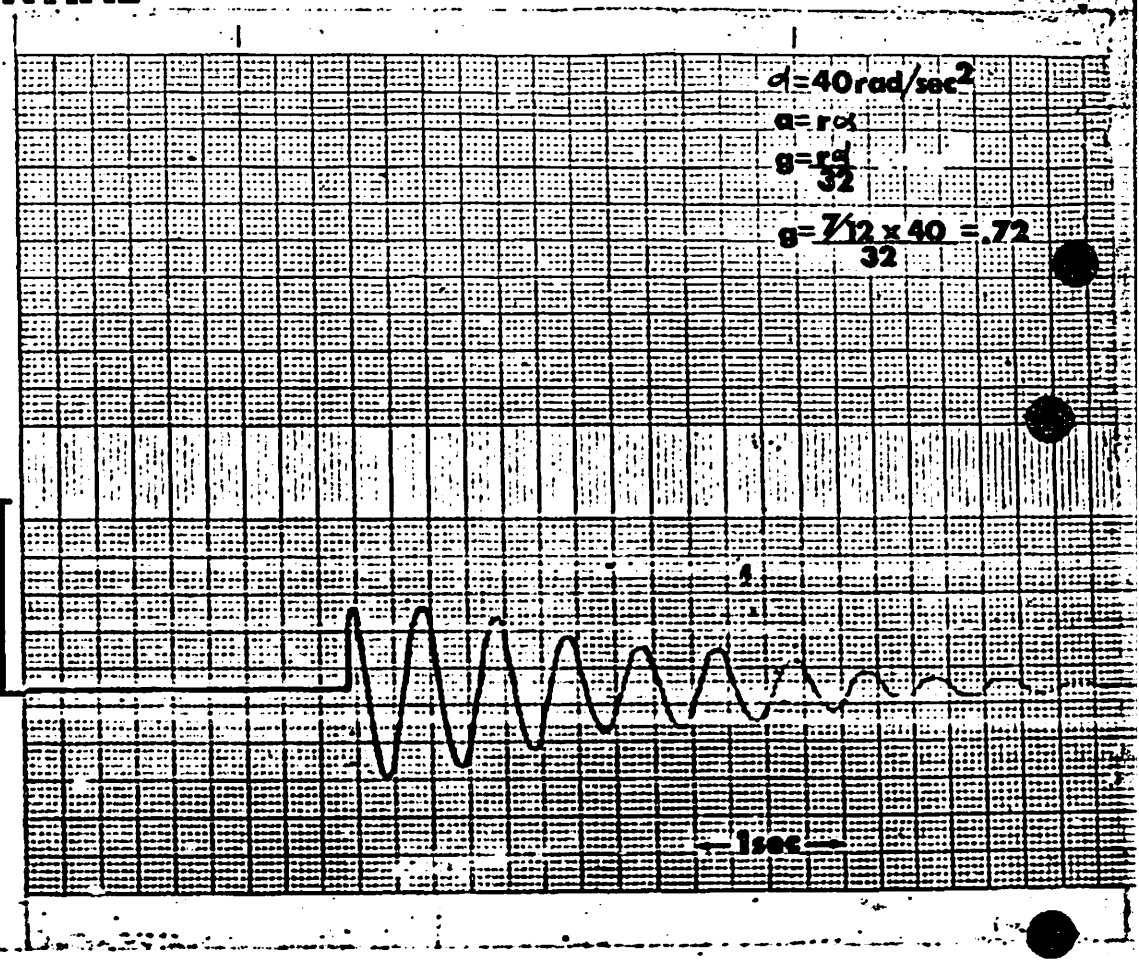

FIGURE 3

TYPICAL RECORD. ROLL ACCELERATION TEST OF THE XW-55 TRM-1.

PROJECT NO. T-17836

1693

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