[redacted] UNCLASSIFIED

JUL 21 1960

XW-49, 3.2
T-16776
Project No. 13.784.10
RS 1613/227

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
1st Review Date: 5/21/98
Authority: ADD
Name: P. Branner
2nd Review Date: 5/26/98
Authority: ADD
Name: W C Layne
Determination (Circle Number):
1. Classification Retained
2. Classification Changed to: UNCL
3. Contains No DOE Classified Information
4. Coordinate With:
5. Contains UCAI?
6. Comments:
DECLASSIFY

INVENTORIED
SEP 14 '65
3428-3

TO: DISTRIBUTION

Re: Centrifuge Tests of the XW-49-X4 Warheads with Telemetry Packages

Test Summary

Two XW-49-X4 warheads (Serial Nos. 49-14-20 and 49-14-21) containing telemetry capsules within the secondarys, were subjected to centrifuge tests. The object of the tests was to determine if the telemetry packages would operate properly during simulated re-entry conditions.

All functional monitoring of the telemetry during the tests was performed by Division 5253. Two orientations were run on each unit to simulate re-entry conditions of the MK III Re-Entry Vehicle.

INVENTORIED
AUG 6 '64
3427-1

Condition I; The XW-49-X4 warhead was mounted on the centrifuge boom in the horizontal plane (Fig. 1) with the forward end of the unit outboard, and the gas bottle at the bottom of the firing set, with a radius to the unit C. G. of approximately 36 feet 8 inches. The unit was subjected to a loading of 70g (36' 8" radius and 74.7 RPM) for one minute during which time tapes were recorded in the telemetry station.

Condition II; The XW-49-X4 warhead was mounted on the centrifuge boom at a 66.5° nose down attitude (Fig. 2), with the gas bottle at the [illegible] of the firing set. The radius to the unit C. G. was approximately 36 feet, 3 inches. The unit was subjected to a loading of 34.5g (36'3" radius and 52.9 RPM) for one minute during which time records were taken in the telemetry station.

There were no visible mechanical failures during testing. Division 5253 will report on the telemetry packages.

RECEIVED
JUL 25 1960

Units 3 and 4 have been cancelled per letter from G. M. Willson, 1613 to P. H. Adams, 1615, dated May [illegible], 1960.

XW-49-X4
3-2

L. P. Navoda FILE
L. P. NAVODA - 1615-2

1613 Project Engineer: G. M. WILLSON - 1613-2

UNCLASSIFIED

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
DOWNGRADING OR DECLASSIFICATION STAMP
CLASSIFICATION CHANGED TO: U
Emelda Selph 5/27/98
PERSON CHANGING MARKING & DATE
WC Layne 5/28/98
PERSON VERIFYING MARKING & DATE
AUTHORITY: W.C. Layne
RECORD ID: 98SN2123
DATED: 5/26/98

[redacted]

[redacted] 1030

[redacted]

UNCLASSIFIED

LPM:1615-2:ms

Distribution:
1/6A J. J. Kane, 1245
2/6A D. M. Bruce, 1282
3/6A J. M. Wieson, 1442
4/6A D. Williams, 1613
5/6A J. R. Harrison, 5523
6/6A R. K. Smeltzer, 3421-3

UNCLASSIFIED

[redacted]

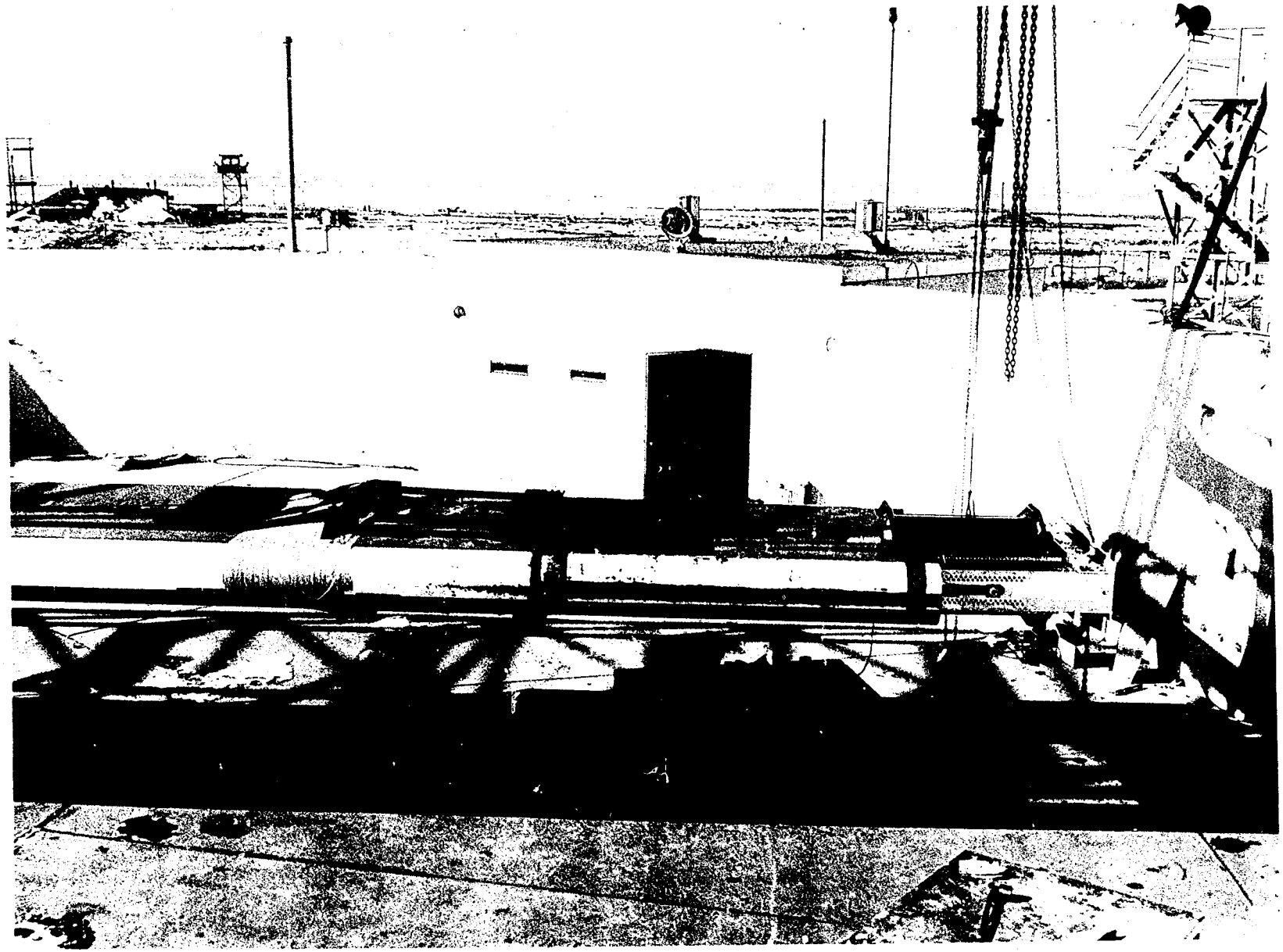

FIGURE 1 - SETUP FOR CONDITION 1 -- CENTRIFUGE TESTS OF XW-49-X4 WARHEADS WITH TELEMETRY PACKAGES

REF. SYM. 1613 (227)
PROJECT NO. T-16776

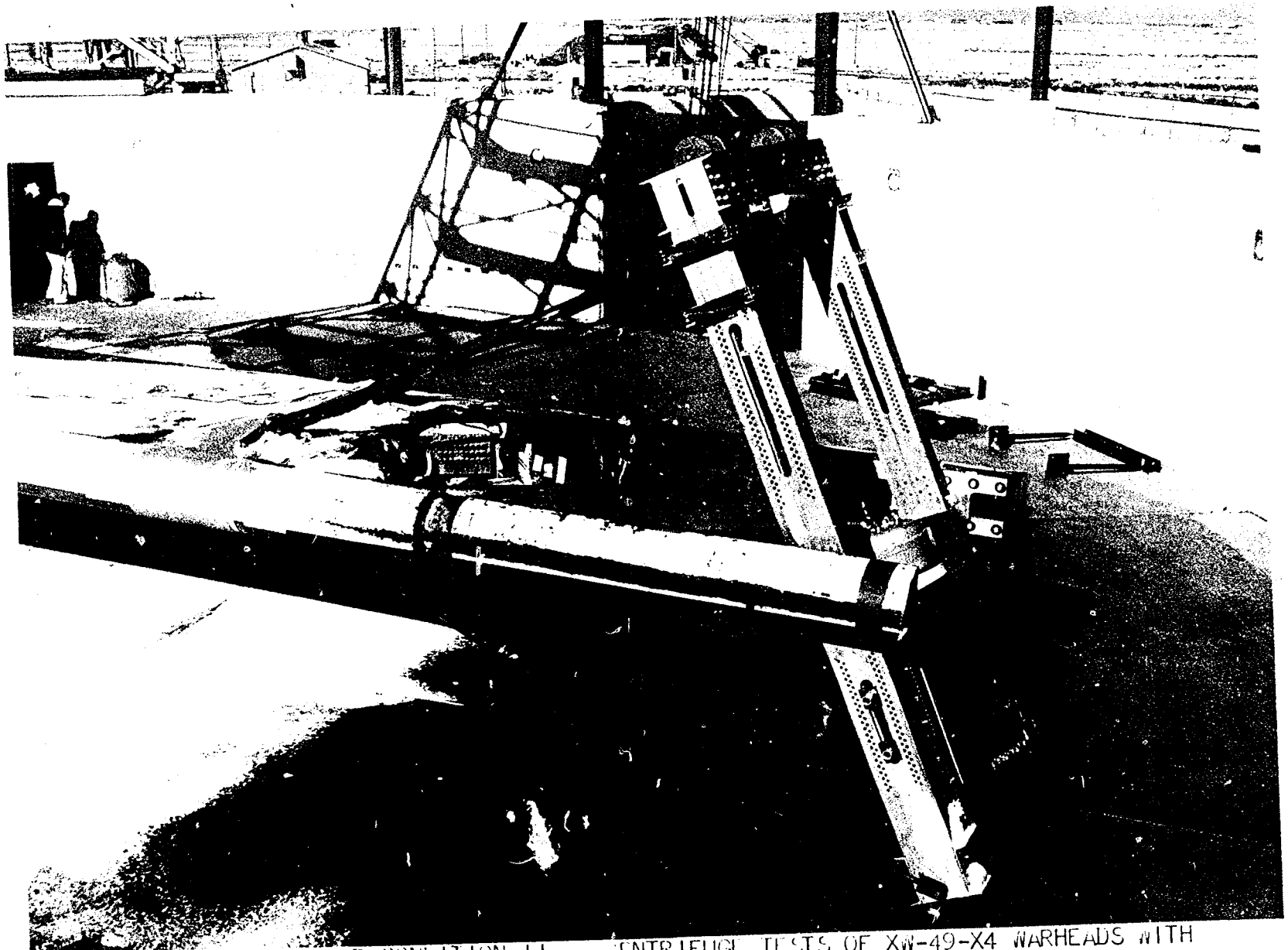

FIGURE 2 - SETUP FOR CONDITION II -- CENTRIFUGE TESTS OF XW-49-X4 WARHEADS WITH TELEMETRY PACKAGES

REF. SYM. 1613 (227)
PROJECT NO. T-16776