[redacted] UNCLASSIFIED

6/27/61

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
1st Review Date: 5/26/98
Authority: ADD
Name: W.C. Layne
Declassification (Circle Number)
1. Classification Retained
2. Classification Changed to: U
3. Contains No DOE Classified Information
4. Coordinate With:
5. Contains UCNI
6. Comments:
Reviewer

File: T-34
T-17520
Project No. 13.667.28
Completed: 5/19/61

TO: DISTRIBUTION

Re: Pre-Centrifuge Static Test on XW-50 Drop-Boost Telemetry Unit

Object of Test

The purpose of this test was to determine the structural adequacy of the XW-50 Drop-Boost telemetry unit and mounting fixture prior to centrifuge tests. A total load of 33g was applied. The centrifuge loading will be 30g.

Authorization for Test

This test was authorized by a Work Order Authorization of January 25, 1961, from Division 7252 to Division 7321. Mr. J. L. Bloomquist was the consultant.

Test Equipment and Instrumentation

The equipment and instrumentation used in this test is presented in Tables 1 and 2.

Procedures

This test was conducted with the XW-50 Drop-Boost telemetry unit mounted in the centrifuge barrel fixture with the Pershing mounting ring. The unit was then tested in two conditions.

The first static condition tested the ring mounting by applying a load of 1815 pounds to the internal telemetry mounting structure. This load was applied in the aft direction. See Figure 1.

The second static condition tested the entire unit and centrifuge fixture. This condition was performed by applying a compression load of 14,980 pounds to the ballast structure and a tension load of 1188 pounds to the housing. Both loads were applied in the aft direction. See Figures 2 and 3.

CENTRAL CLASSIFIED FILE
XW-50
5-2

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CENTRAL RECORD FILE

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SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
DOWNGRADING OR DECLASSIFICATION STAMP
CLASSIFICATION CHANGED TO: U
AUTHORITY: W.C. Layne
PERSON CHANGING MARKING & DATE: Emelda Selah 5/28/98
RECORD ID: 98SN2194
PERSON VERIFYING MARKING & DATE: W C Layne 5-28-98
DATED: 5/28/98

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Distribution 2 T-17520

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Enc. Tables I & II
Figures 1, 2, 3

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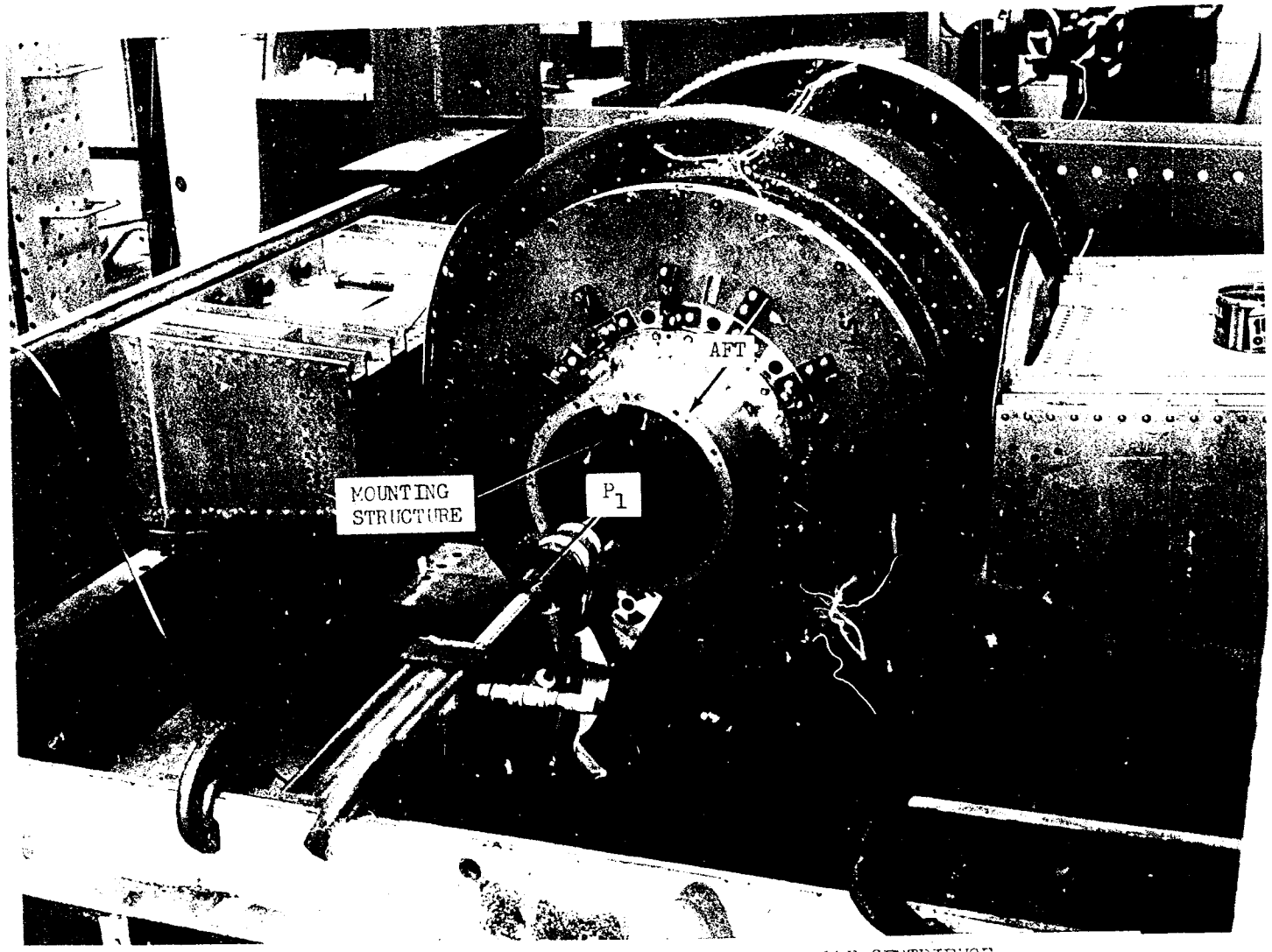

FIG. 1 - TEST SETUP, STATIC TEST CONDITION 1 -- PRE-CENTRIFUGE STATIC TEST ON XW-50 DROP-BOOST TELEMETRY UNIT.

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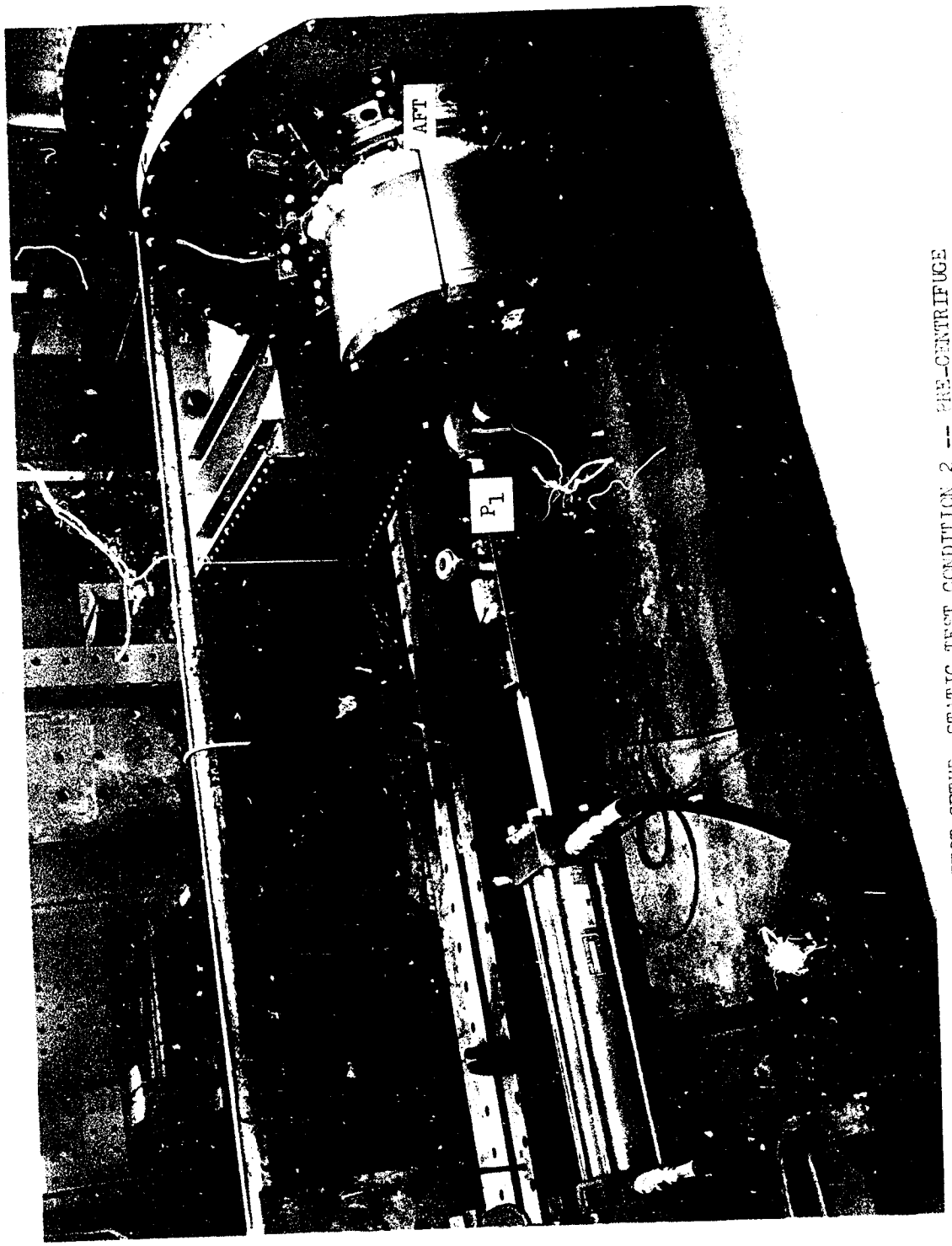

FIG. 2 - TEST SETUP, STATIC TEST CONDITION 2 -- PRE-CENTRIFUGE STATIC TEST ON XM-56 BOOP-BOOST PROPELLANT UNIT.

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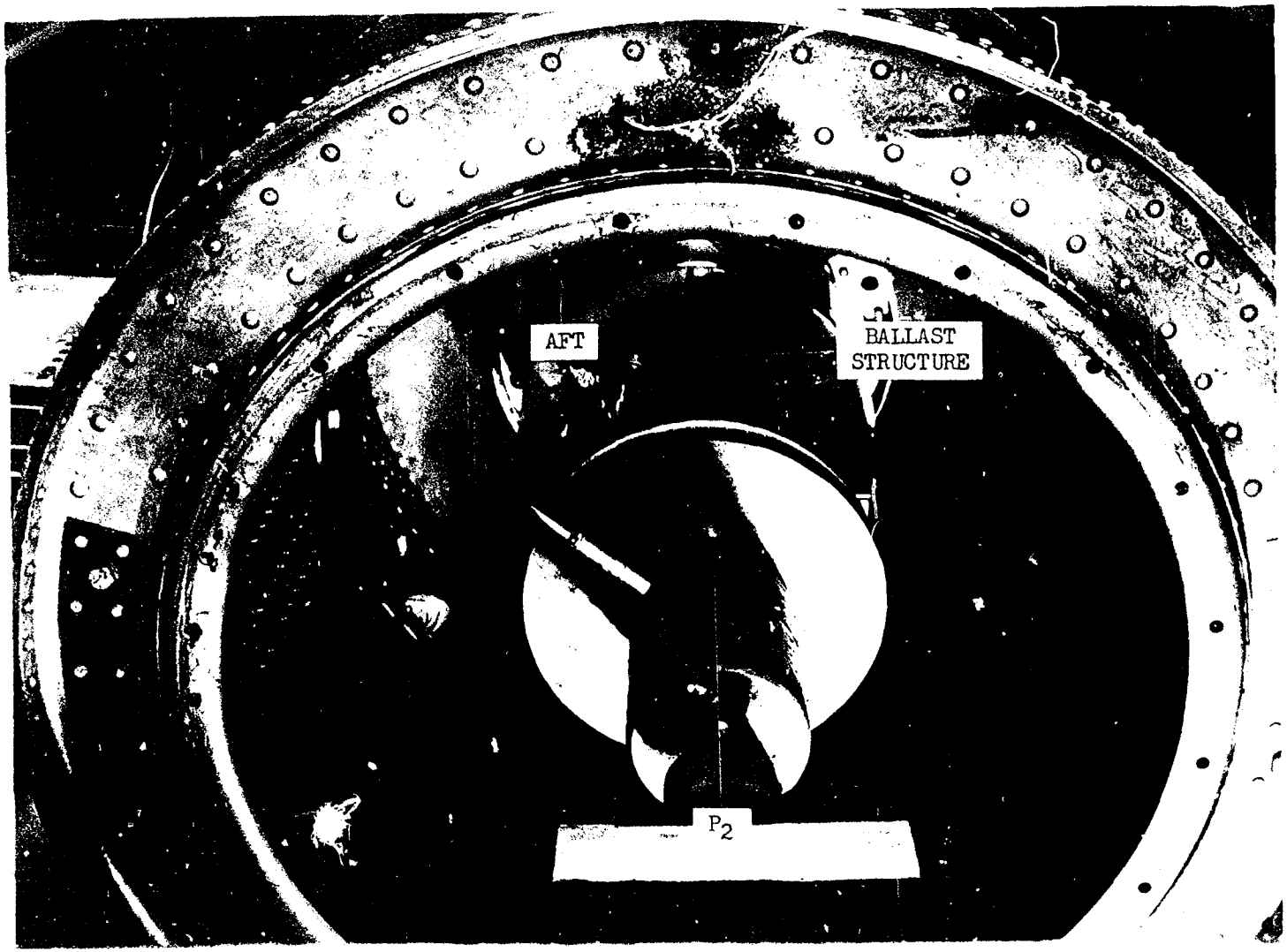

FIG. 3 - TEST SETUP, STATIC TEST CONDITION 2 -- PRE-CENTRIFUGE STATIC TEST ON XW-50 DROP-BOOST TELEMETRY UNIT.

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TABLE I

Static Test Condition 1
Pre-Centrifuge Static Test on the XW-50 Drop-Boost Telemetry Unit

	Load Designation
	P1
Maximum Load	1615
Load Cell Capacity	2000
Load Cell Number	D-116
Strain Indicator Number	43662

TABLE II
Static Test Condition 2
Pre-Centrifuge Static Test on the XW-50 Drop-Boost Telemetry Unit

	Load Designation	
	P1	P2
Maximum Load	1188	14,982
Load Cell Capacity	2000	20,000
Load Cell Number	D-116	2392
Strain Indicator Number	43662	43651

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