

UNCLASSIFIED

| SANDIA SYSTEMATIC DECLASSIFICATION REVIEW | |
|---|---|
| 1 st Review Date: <u>7/08/98</u> | Determination (Circle Numbers): |
| Authority: <input type="checkbox"/> ADIC <input checked="" type="checkbox"/> SADR | 1. Classification Retained <u>U</u> |
| Name: <u>W. Laine</u> | 2. Classification Changed to |
| 2 nd Review Date: <u>7/13/98</u> | 3. Contains No DOE Classified Information |
| Authority: <u>R.B. Croner</u> | 4. Coordinate With |
| Name: <u>R.B. Croner</u> | 5. Coordinate UCAF |
| | 6. Comments: <u>OK for personnel</u> |

OCT 1 1 1962

File No: T-16
T-18001
Test Completed: 8-3-62

RECEIVED

OCT 12 1962

ORIGINAL RECORD FILE

MR. J. J. HOBAN, JR. - 7212
Attn: R. Robinett

Re: Acceleration Test of the TM Package for the XW-53 Flight Test (U)

Object of Test

The object of this was to prove the structural integrity and functionability of these telemetry packages when subjected to constant accelerations they will encounter in use.

Authorization for Test

This test was authorized in a Work Request from Division 7253, dated 11-1-61, Mr. R. Robinett was the consultant.

Procedure and Results

Two XW-53 TM packages were subjected to a flight qualification test and one was subjected to a system evaluation test.

Unit #1 for the flight qualification test was mounted first in the launch orientation as shown in Figures 1 and 2 and subjected to an acceleration of 12g for a period of 60 seconds. The unit was then subjected to an acceleration of 68g for a period of 30 seconds in the re-entry orientation. This orientation is shown in Figures 3 and 4. In the vertical orientation the unit was subjected to an acceleration of 20g for a period of 30 seconds. The mounting for the orientation is shown in Figure 5.

Unit #2 for the flight qualification test was subjected to the same accelerations as unit #1. The time at these accelerations was 60 seconds for each orientation. At the request of the consultant the unit was subjected to an additional acceleration in the lateral orientation. The unit was rotated 90° inside the barrel jig and subjected to an acceleration of 20g for a period of 60 seconds.

For the system evaluation the TM package was subjected to an acceleration of 20g in the launch orientation for a period of 60 seconds. The unit was then subjected to an acceleration of 60g in the vertical orientation for a period of 60 seconds. An additional run was requested in the lateral



| SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP | |
|--|-------------------------------|
| CLASSIFICATION CHANGED TO: <u>U</u> | AUTHORITY: <u>R.B. Croner</u> |
| REASON FOR CHANGING MARKING & DATE: <u>Exempt, Sub 7/21/98</u> | RECORD ID: <u>98SN2858</u> |
| DATE OF REVIEW: <u>7/22/98</u> | DATED: <u>7/13/98</u> |

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Mr. J. J. Hoban, Jr. - 7212

- 2 -

T-18001

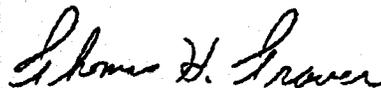
orientation with the unit turned 90° in the jig. Acceleration was 60g and was held for a period of 60 seconds.

There was no visible damage to the XW-53 TM packages as a result of these tests.

No instrumentation was required.

This test was run in accordance with SC-4452A(M).

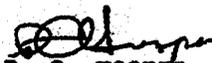
Division 7212 energized their transmitting equipment and used the ground station in Bldg. 6640 during these sustained acceleration tests. All equipment functioned satisfactorily.



T. H. TRAVER - 7323-2



Test Project Engineer: A. K. ALBERTS - 7321-5


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

THT:7323-2:mw

Encl: Figures 1 thru 5

Copy to:

J. M. Wiesen, 1442

D. S. Bliss, 2344

E. H. Copeland, 7321

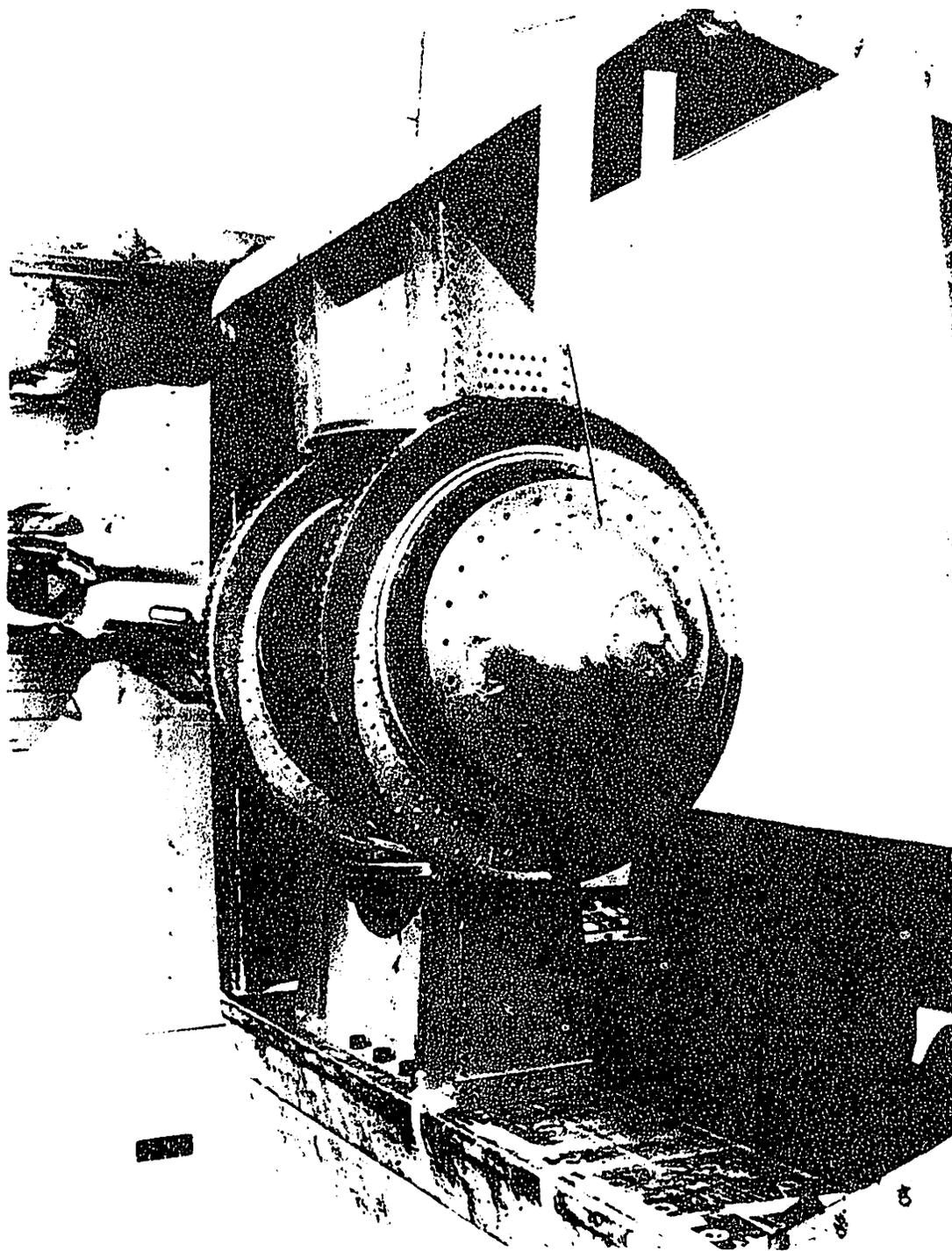
C. L. Johnson, 7523

Central Record File, 3421-3

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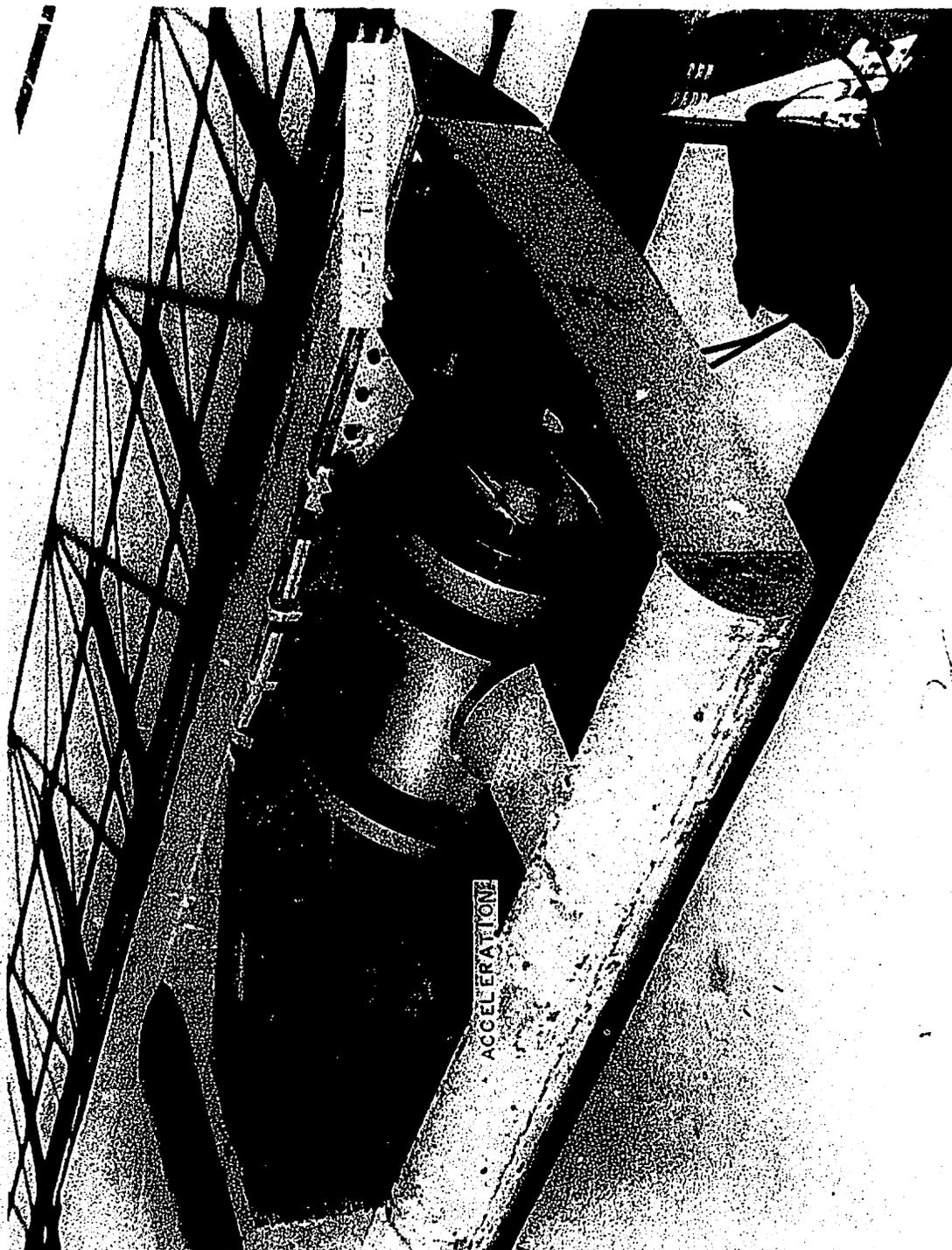


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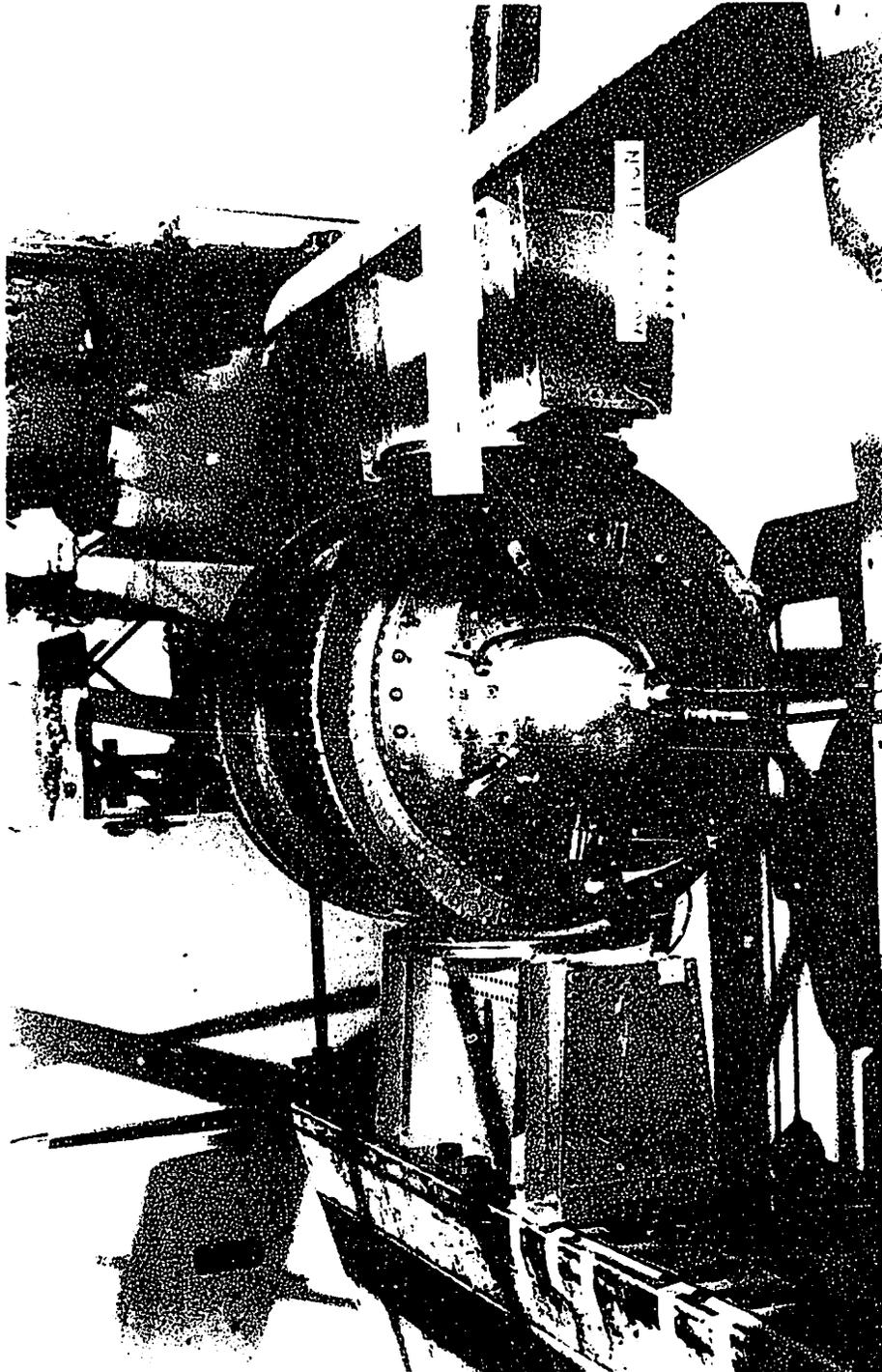


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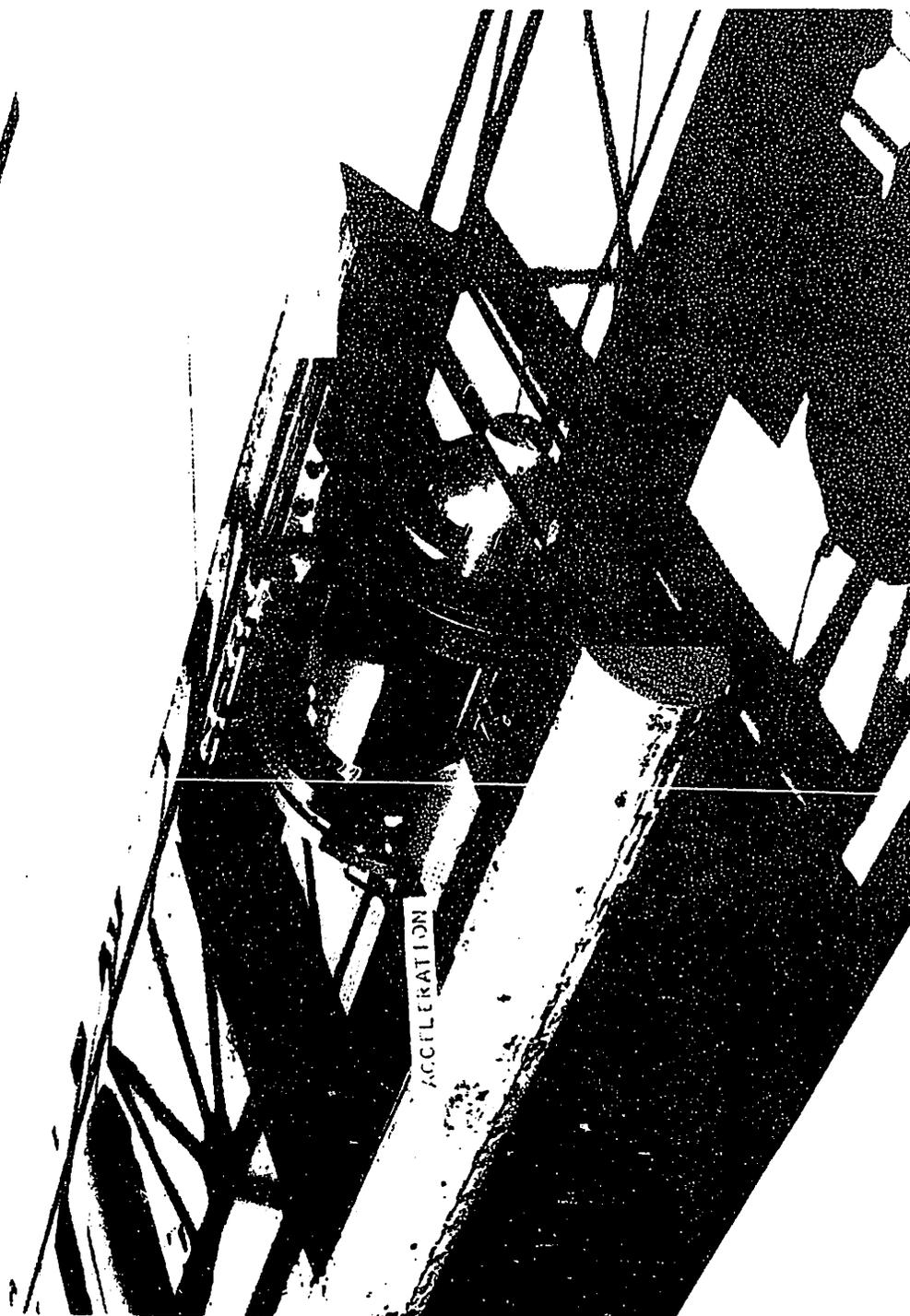


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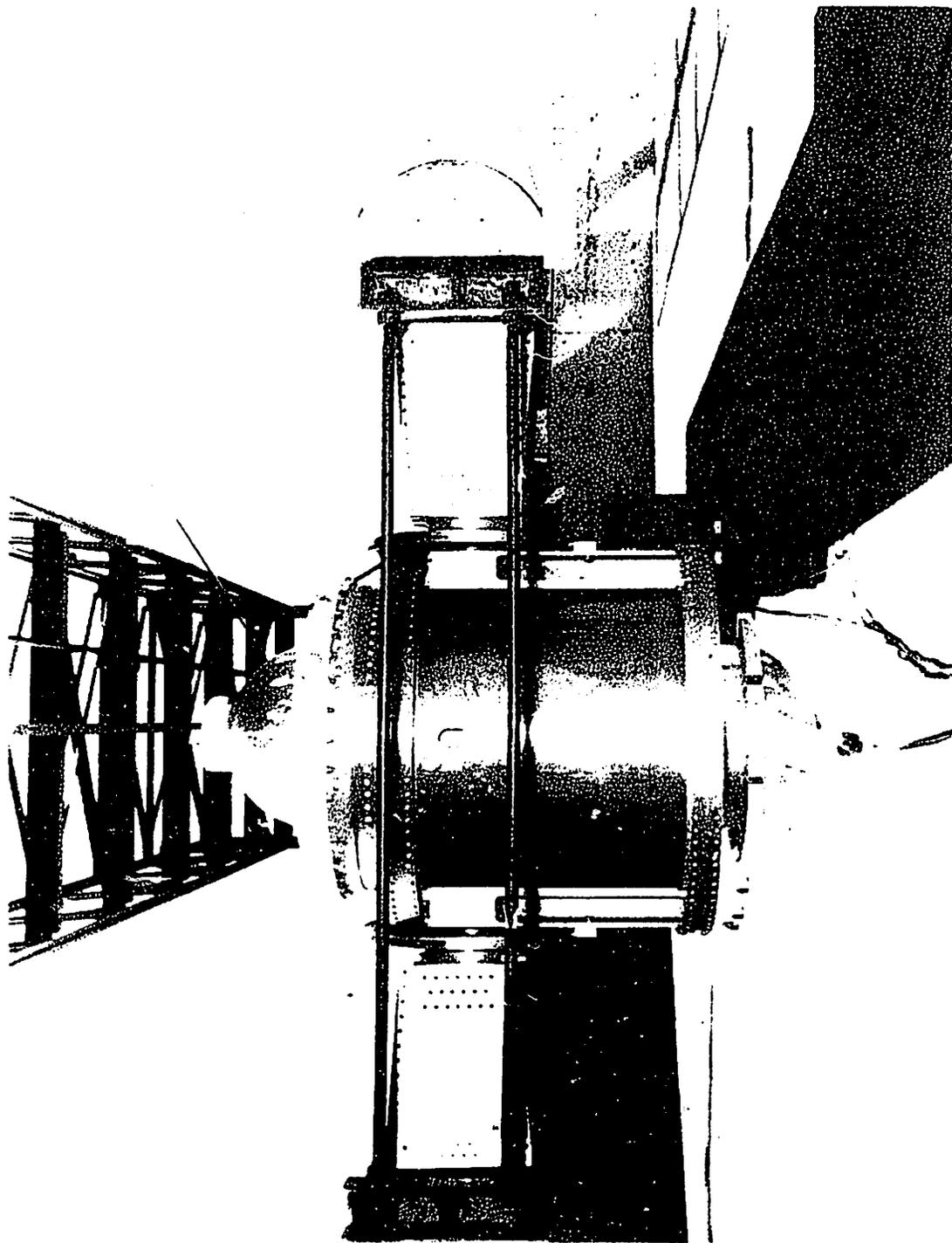
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