

UNCLASSIFIED

NOV 8 1962

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1. Review Date: <u>7-06-98</u>	Determination (Circle Number):
2. Authority: <input type="checkbox"/> ADD <input checked="" type="checkbox"/> ADD <u>Whayne</u>	1. Classification Retained
Name: <u>Whayne</u>	2. Classification Changed to: <u>U</u>
3. Review Date: <u>7/13/98</u>	3. Contains No DOE Classified Information
Authority: <u>RBC</u>	4. Coordinate With:
Name: <u>RBC</u>	5. Coordinate UCAR:
	6. Comments:

File No: TX-53, 3-2
T-19061
Test Completed: 10-23-62

MR. E. I. BRUCE - 7144
Attn: C. W. Moses

RECEIVED

Re: Static Test of TX-53 Nose (U)

NOV 9 1962

CENTRAL RECORD FILE

Summary of Test

The TX-53 aluminum honeycomb nose was tested to failure in the transverse direction and failed at a load of 13,000 pounds.

Object of Test

The object of this test was to determine the transverse load required to cause a failure in the TX-53 aluminum honeycomb nose. The nose was loaded with a 6 inch wide contoured load pad at station 13.

Authorization for Test

This test was authorized in an Environmental Test Order from Division 7144 to Division 7331, dated October 5, 1962. C. W. Moses, 7144-1 was the consultant.

Test Equipment and Instrumentation

The item tested was a TX-53 aluminum honeycomb nose (Dwg. No. 163272)

Equipment Used

- 2 - Hydraulic Cylinders 6" bore
- 2 - Calibrated Load Links, Capacity 110,000 lbs.
- 2 - Baldwin SR-4 Strain Indicators, Serial Nos. 900730 and 443651
- 1 - Sprague Hydraulic Pump

Instrumentation Used

No instrumentation was used during this test.

Procedure

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The TX-53 with an aluminum honeycomb nose was mounted in the static jig as shown in Figures 1 and 2. A contoured wooden load pad which was 6 inches wide and covered approximately 120° of the circumference of the aluminum honeycomb nose was mounted on the honeycomb nose as shown in Figures 1 and 2.

FILE NO	TX 53
FILE NO	3-2

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: <u>U</u>	AUTHORITY: <u>R.B. Crane</u>
PERSON CHANGING MARKING & DATE: <u>Emelda Selah 7/13/98</u>	RECORD ID: <u>98SN2815</u>
PERSON VERIFYING MARKING & DATE: <u>W.C. Tom 7/22/98</u>	DATED: <u>7/13/98</u>

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Mr. E. I. Bruce - 7144

- 2 -

7-19061

Equal loads were applied to each end of the wooden load pad in the transverse direction as shown in Figure 1.

Load was applied to the aluminum honeycomb nose until failure.

Results

The TX-53 aluminum honeycomb nose was tested to failure in the transverse direction at station 13. The honeycomb began to crush at a load of 13,000 pounds and the test was terminated at 20,000 pounds at the consultant's request.

Figure 3 is a photograph of the failure in the honeycomb.

L. J. Woolrich

L. J. WOOLRICH - 7322-1

Dale Buchanan

Test Project Engineer:

DALE BUCHANAN - 7331-1

R. S. Hooper

Approved By: R. S. HOOPER - 7331-1

LJW:7322-1:ms

Encl: Figures 1, 2, 3

Copy to:

J. M. Wiesen, 1442

D. S. Bliss, 2344

E. H. Copeland, 7331

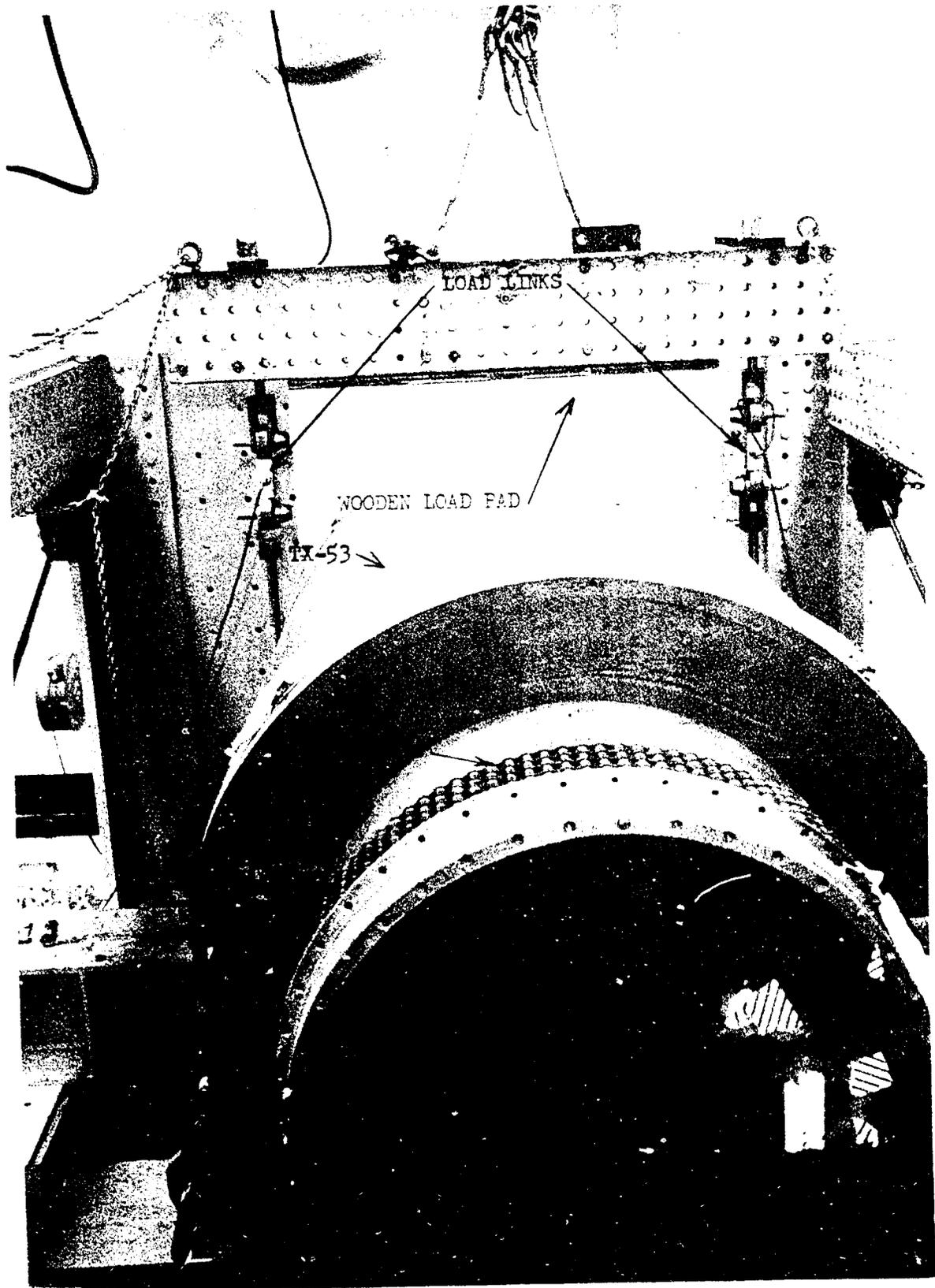
C. L. Johnson, 7523

Central Record File, 3421-3

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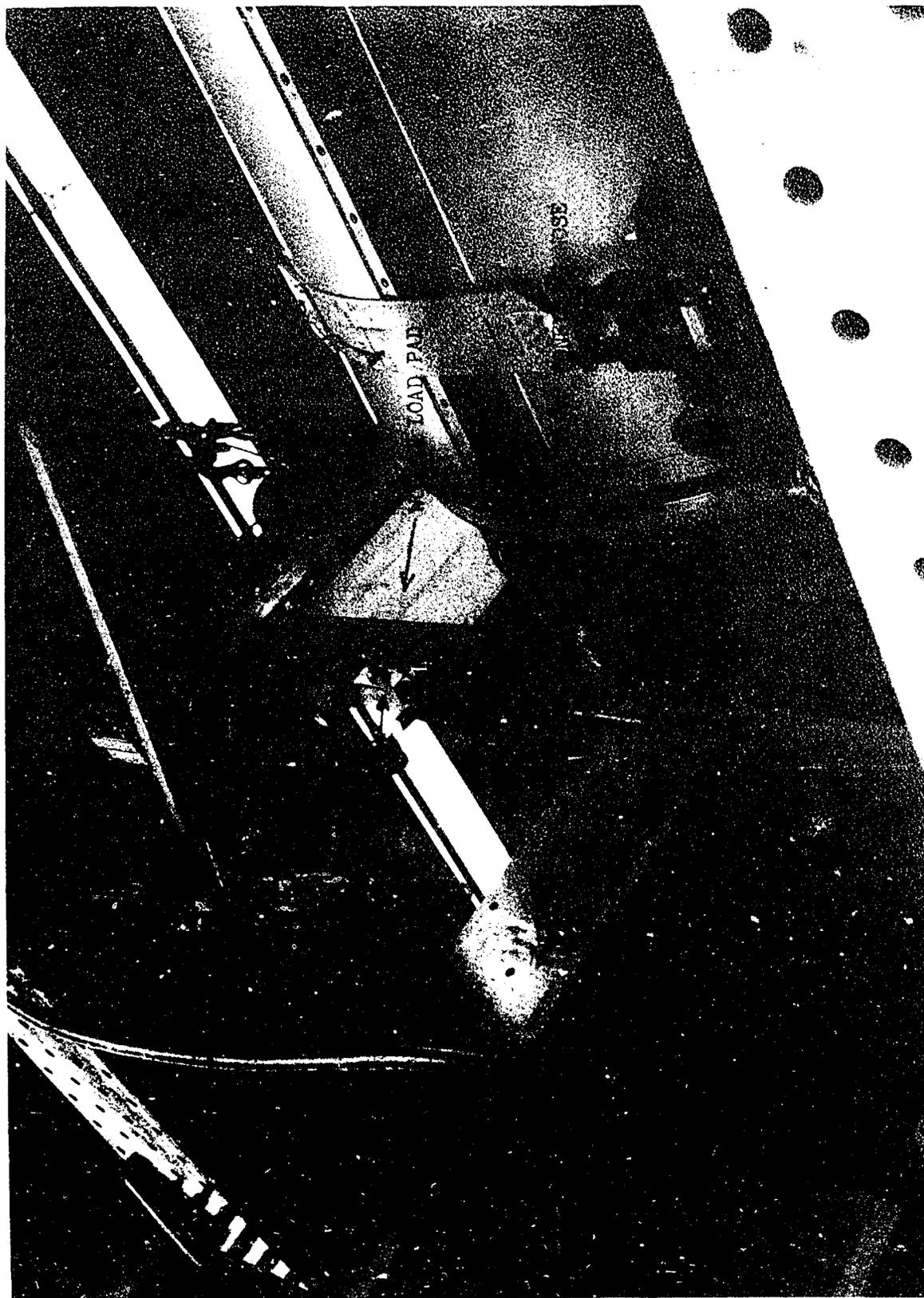


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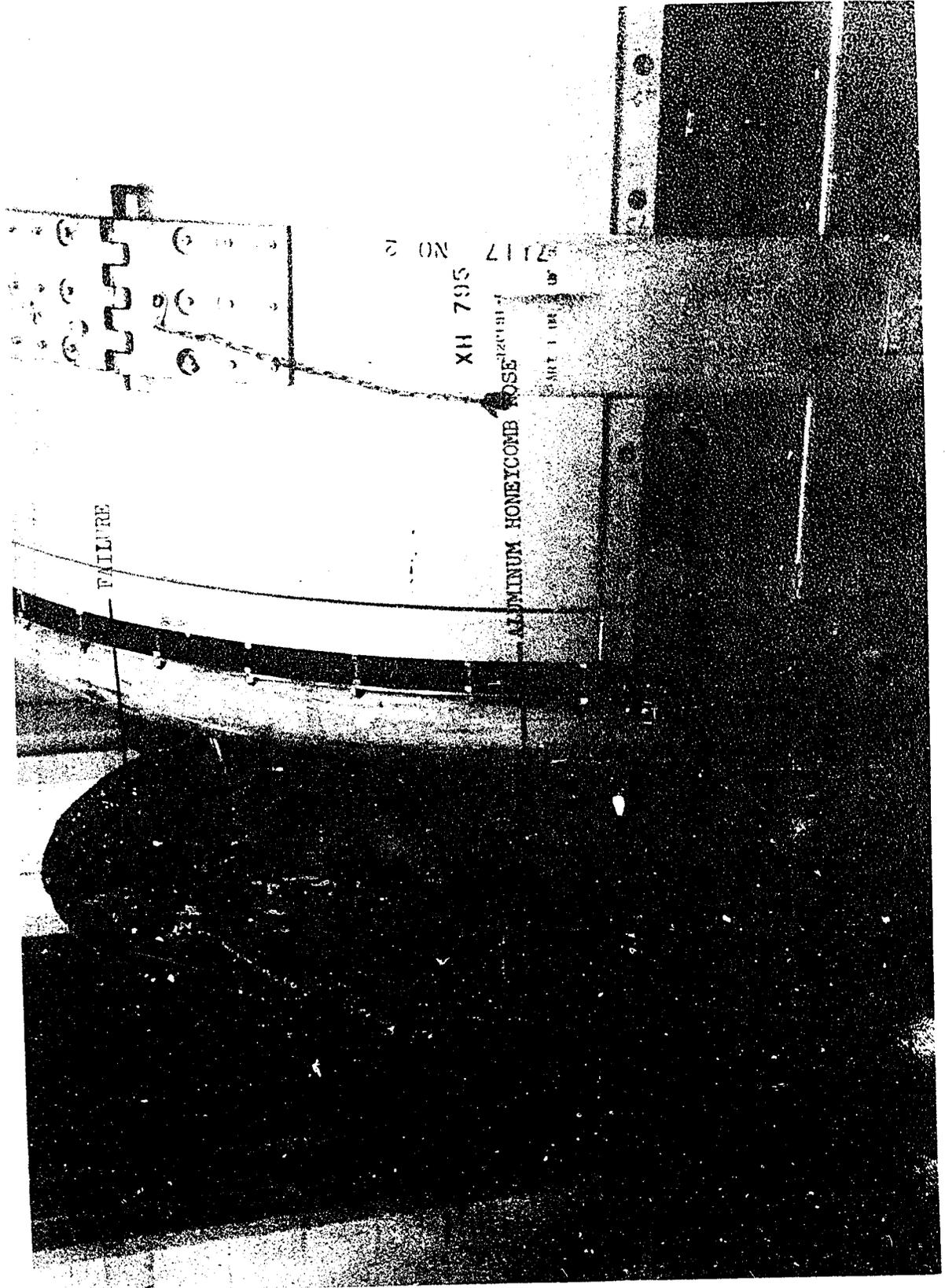
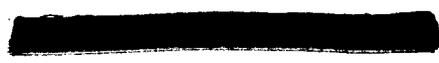
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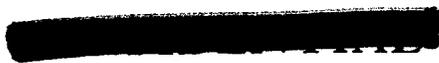
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XH 795

ALUMINUM HONEYCOMB ROSE

FAILURE

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