[redacted]

252

AUG 9 1960

File P-6
T-16767
Project No. 13.858.00

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
1st Review Date: 10/15/98
Authority: ADC ADD
Name: R B Cramer
2nd Review Date: 10/26/98
Authority: ADD
Name: W Layne
Determination (Circle Numbers):
1. Classification Retained
2. Classification Changed to: U
3. Contains No DOE Classified Information
4. Coordinate With:
5. Contains UCAI?
6. Comments: Declassify

UNCLASSIFIED

TO: DISTRIBUTION TCG-NNT-1

Re: Explosive Test on Shroud Line Cutters in Afterbody

The object of this test was to proof fire the explosive cutters for shroud lines of a retard chute. Two sample straps were cut in a test jig followed by eight straps being cut that were mounted in an afterbody. All straps were cut satisfactorily.

This test was authorized in a Work Order Authorization to A. W. Reger, Division 1613, dated December 14, 1959. Consultant for the test was B. Hill, Division 1217

In the first test, a sample cutter was attached to a test jig and two sample straps inserted over the cutting edge. Figures 1 & 2 show the samples before loading the MDF. The groove in Figure 2 was loaded with 15 grain MDF which was ignited with an MC-1060 detonator. The effect of the explosion on the test jig is shown in Figures 3 & 4. The shroud line samples shown in Figure 5 were cut with the test jig.

Eight shroud lines were placed over cutters which were mounted to an afterbody. They were bolted over a groove which contained the 15 grain MDF as shown in Figure 6. An MC-1060 was used to ignite the MDF. Because there was no tension on the shroud lines it was necessary to disconnect the cutters to assure complete cutting as shown in Figure 7. Two examples of the eight straps that were cut are shown in Figure 7.

L. Hitchcock

L. HITCHCOCK - 1615-1

Bill Johnson

1613 Project Engineer: B. JOHNSON - 1613-3

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CENTRAL RECORD FILE

Approved by: R. S. HOOPER - 1613-3

LH:1615-1:ms

Enc: Figures 1-7

[redacted]

CENTRAL RECORD FILE
ACCOUNTANT
FILE NO. P-6

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
DOWNGRADING OR DECLASSIFICATION STAMP
CLASSIFICATION CHANGED TO: U
Carmela Gallego 10/26/98
PERSON CHANGING MARKING & DATE
W Layne 10/28/98
PERSON VERIFYING MARKING & DATE
AUTHORITY: W C Layne
RECORD ID: 99SN0199
DATED: 10/26/98

UNCLASSIFIED

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Copy to:
E. I. Bruce, 1217
Attn: E. Hill
D. Williams, 1613
D. M. Bruce, 1282
J. M. Wiesen, 1462
J. R. Warnicon, 5523
R. K. Smeltzer, 3421-3

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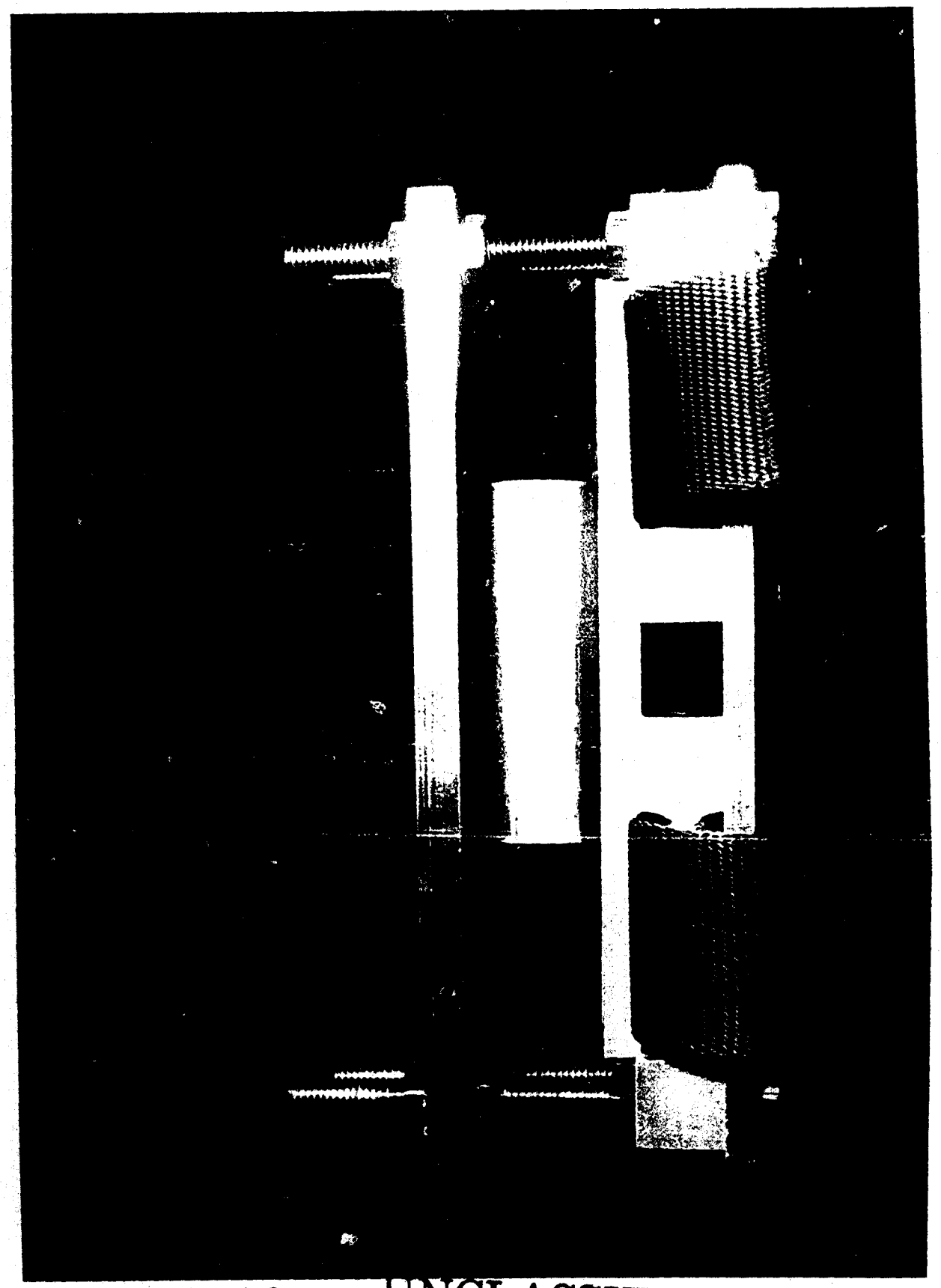

FIGURE 1 - SIDE VIEW OF TEST SAMPLE BEFORE FIRING -- EXPLOSIVE TEST ON SHROUD LINE CUTTER

PROJECT NO. T-16767

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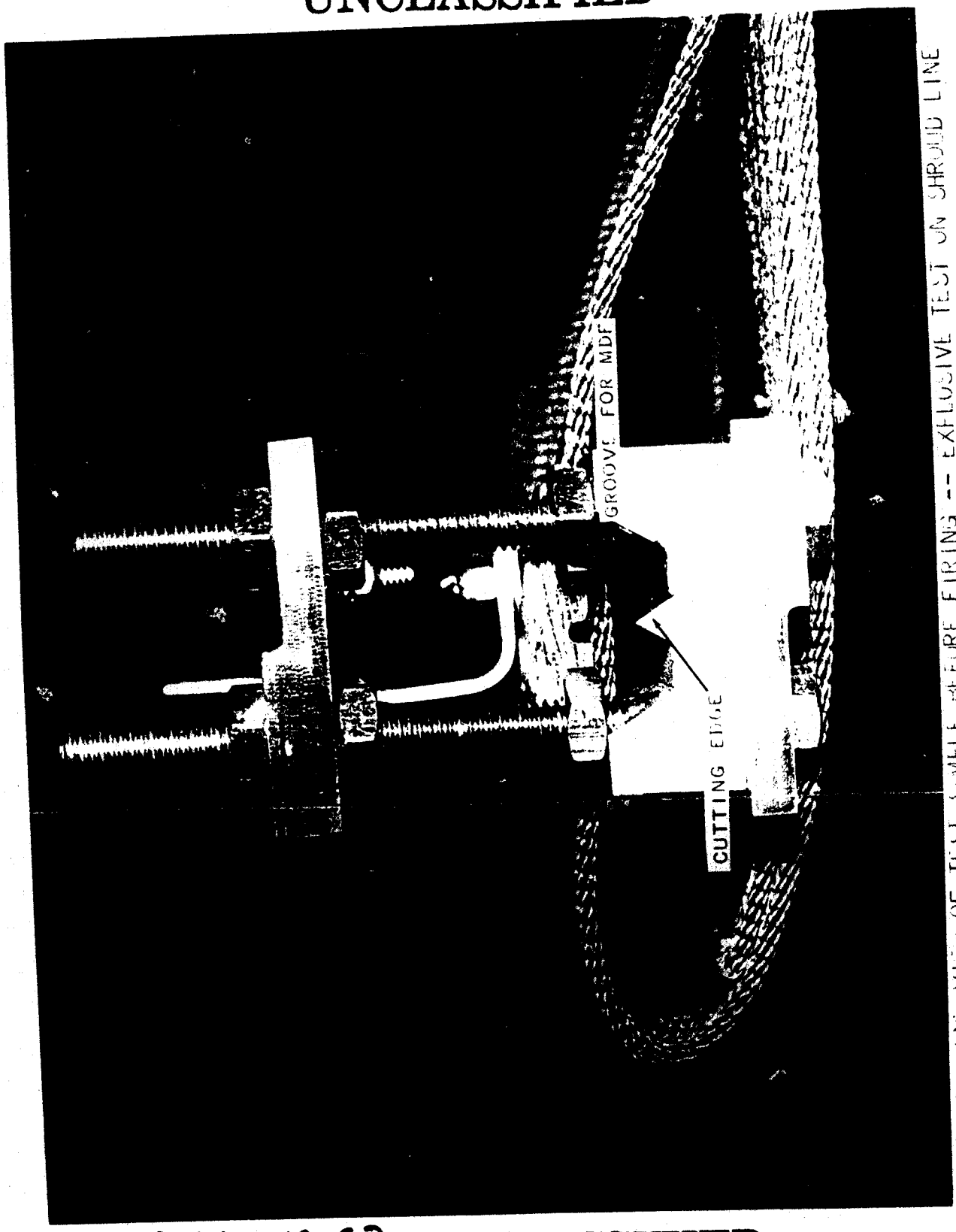

FIGURE 2 - END VIEW OF TEST SAMPLE BEFORE FIRING -- EXPLOSIVE TEST ON SHROUD LINE CUTTER

PROJECT NO. T-16767

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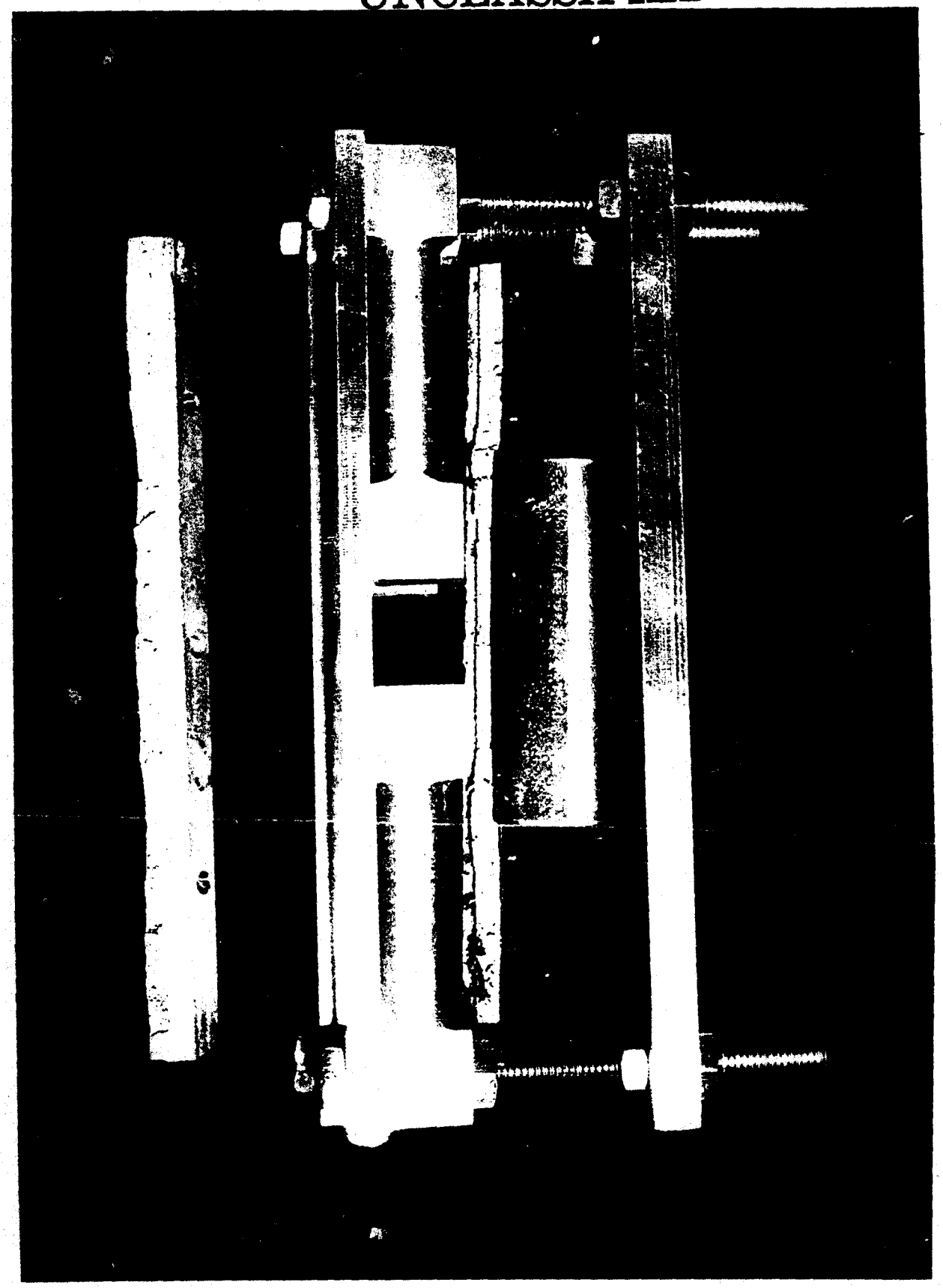

FIGURE 3 - SIDE VIEW OF TEST JIG AFTER FIRING -- EXPLOSIVE TEST ON SHROUD LINE CUTTER

PROJECT NO. T-16767

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UNCLASSIFIED

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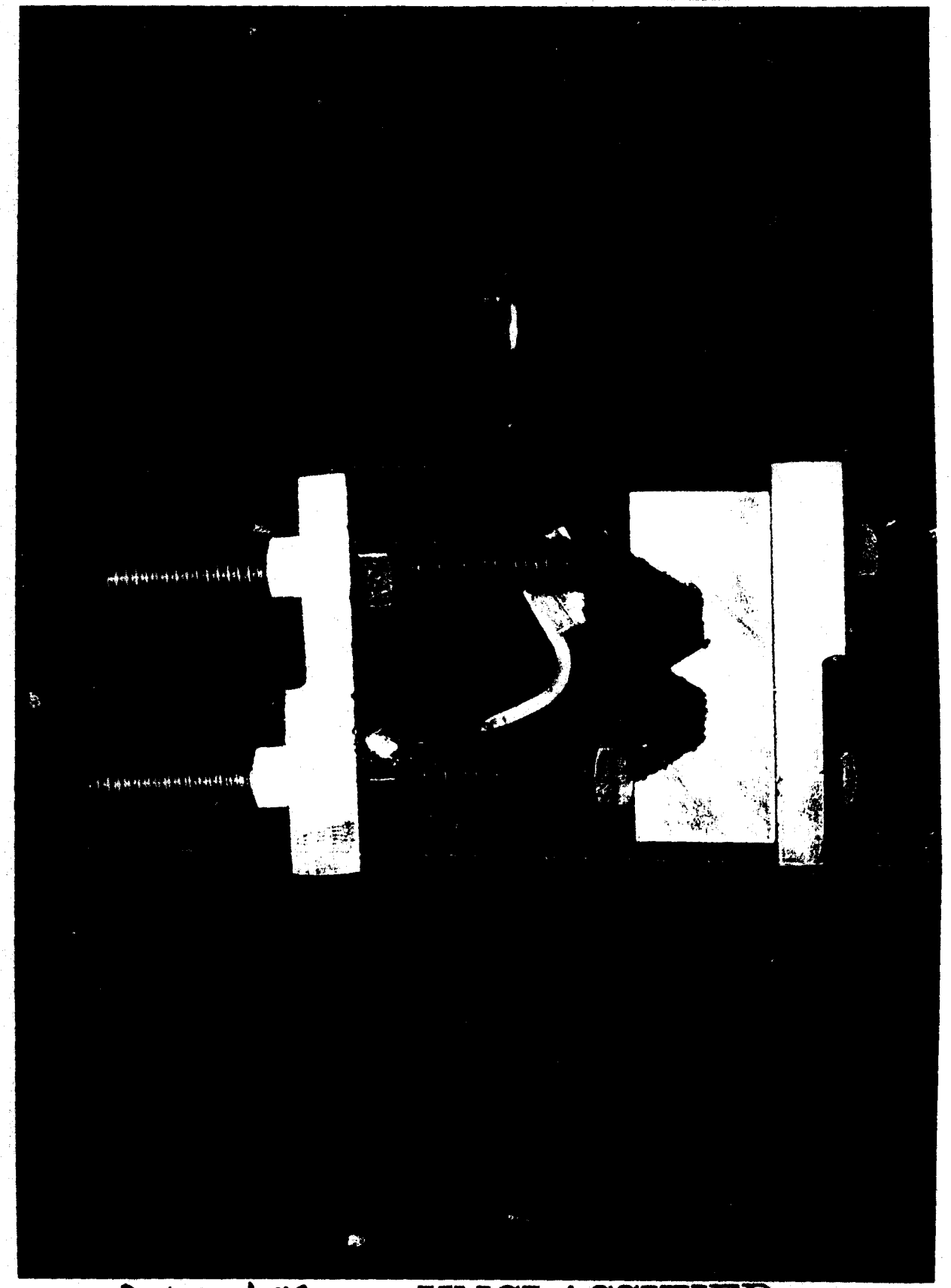

FIGURE 4 - END VIEW OF TEST JIG AFTER FIRING -- EXPLOSIVE TEST ON SHROUD LINE CUTTER

PROJECT NO. T-16767

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FIGURE 5 - SHROUD LINE SAMPLES AFTER FIRING -- EXPLOSIVE TEST ON SHROUD LINE CUTTER

PROJECT NO. T-16767

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FIGURE 6 - SHROUD LINES MOUNTED TO AFTERBODY (BEFORE TEST) -- EXPLOSIVE TEST ON SHROUD LINE CUTTER

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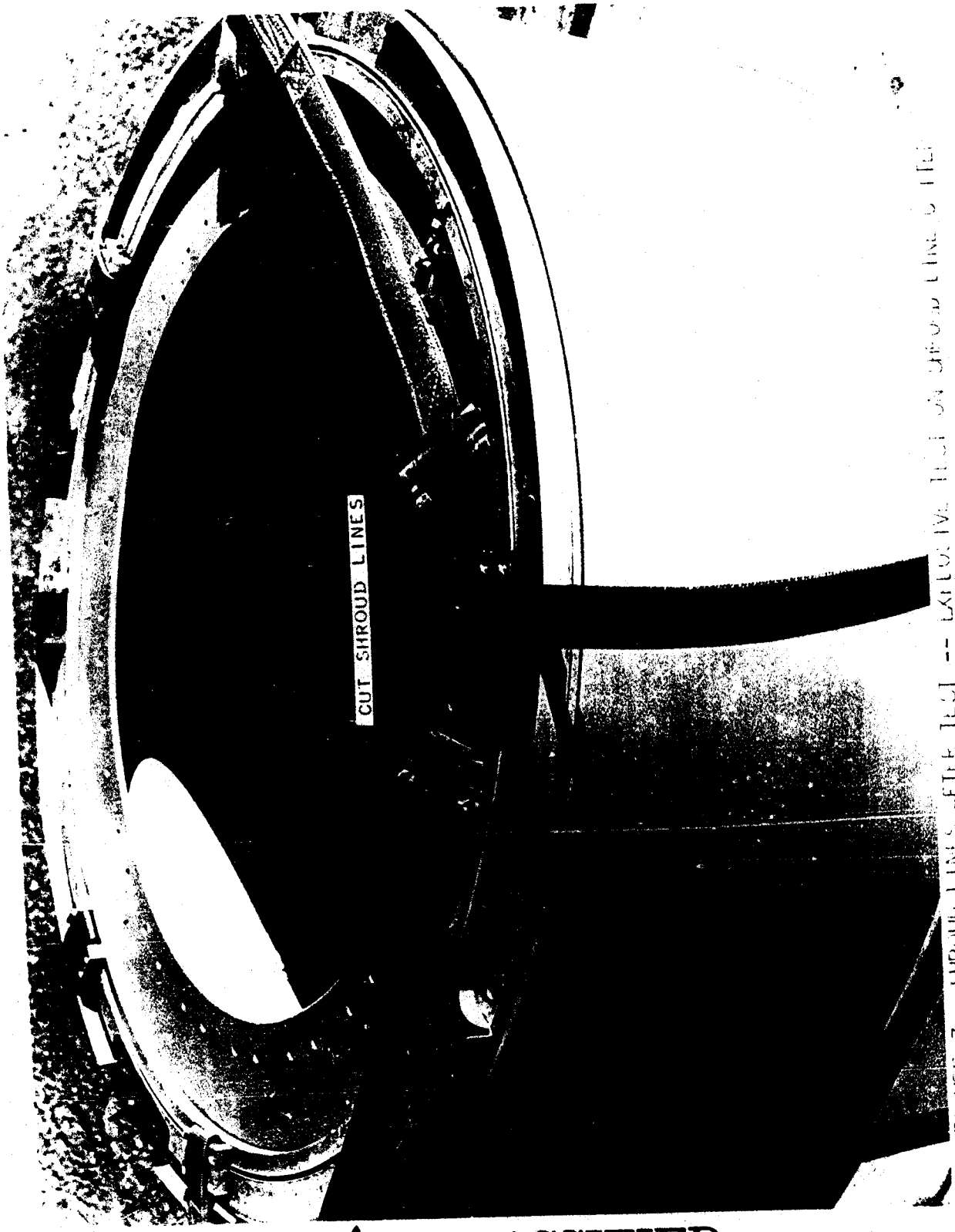

FIGURE 7 - SHROUD LINES AFTER TEST -- EXPLOSIVE TEST ON SHROUD LINES AFTER PROJECT NO. T-15767

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