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10/19/98 W Layne
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TGG-NNT-1; TGG-WM-1

NOV 1 1960

T-17181
Project No. 13.858.00

TO: DISTRIBUTION

Re: Explosive Test of Retard Chute Nylon Straps

The object of this test was to proof fire explosive cutters for retard chute nylon straps.

This test was requested in a Work Order Authorization to R. S. Hooper Division 1613 from C. F. Magnuson, Division 1217 on 8-8-60. A. E. Alberts was 1613 project engineer.

The assembly tested consisted of a prima cord housing of aluminum, a steel cutter and a 2" nylon strap. The setup for the test is shown in Fig. 1. Fifteen grain/ft. prima cord (mild detonating fuse) was used for the tests. The prima cord was detonated with a Dupont X257D detonator. A three in. aluminum chromel and two 5/16 steel bolts were used to hold the prima cord housing place over the cutter. No instrumentation was required.

The tests were conducted at the small explosive site in Area III. Four test runs were made all using the same type components. For all tests, the nylon strap was placed around the cutter with the prima cord and prima cord housing placed on top of the strap. The prima cord housing was then held in place with two 5/16" steel bolts. In Test #1 & 2 the bolts holding the prima cord housing in place were tightened slightly more than finger tight. In tests #3 & #4 these bolts were only tightened finger tight. Figures 2, 3, 4 and 5 are photos of Tests 1, 2, 3 & 4 respectively. These photos were taken after firing of prima cord.

All four test ~~cutters~~ cut the nylon strap satisfactorily.

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William V Hoffman

7321 Project Engineer: A. E. ALBERTS - 7321-5
A. E. Alberts

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

WVH:7323-1:ms

Enc: Figs. 1-5

M-9.2

CANADA SYSTEMATIC DECLASSIFICATION REVIEW
DEVELOPMENT OR DECLASSIFICATION STAMP
CLASSIFICATION CHANGED BY: U
Carmela Gallagher 10/16/98
PERSON CHANGING MARKING & DATE
W C Layne 10/28/98
PERSON VERIFYING MARKING & DATE
AUTHORITY: W C Layne
RECORD ID: 99SN0148
DATED: 10/19/98

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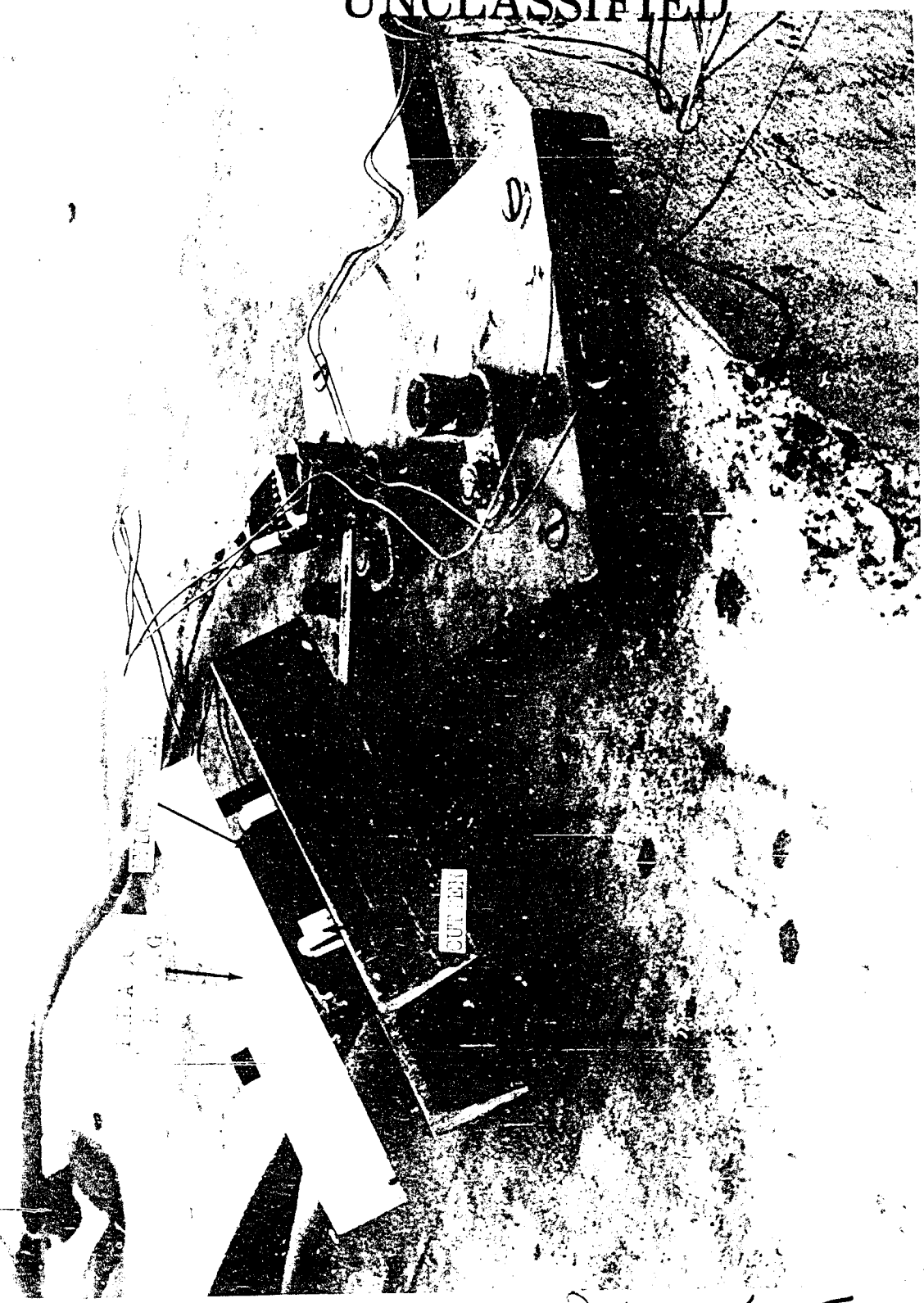

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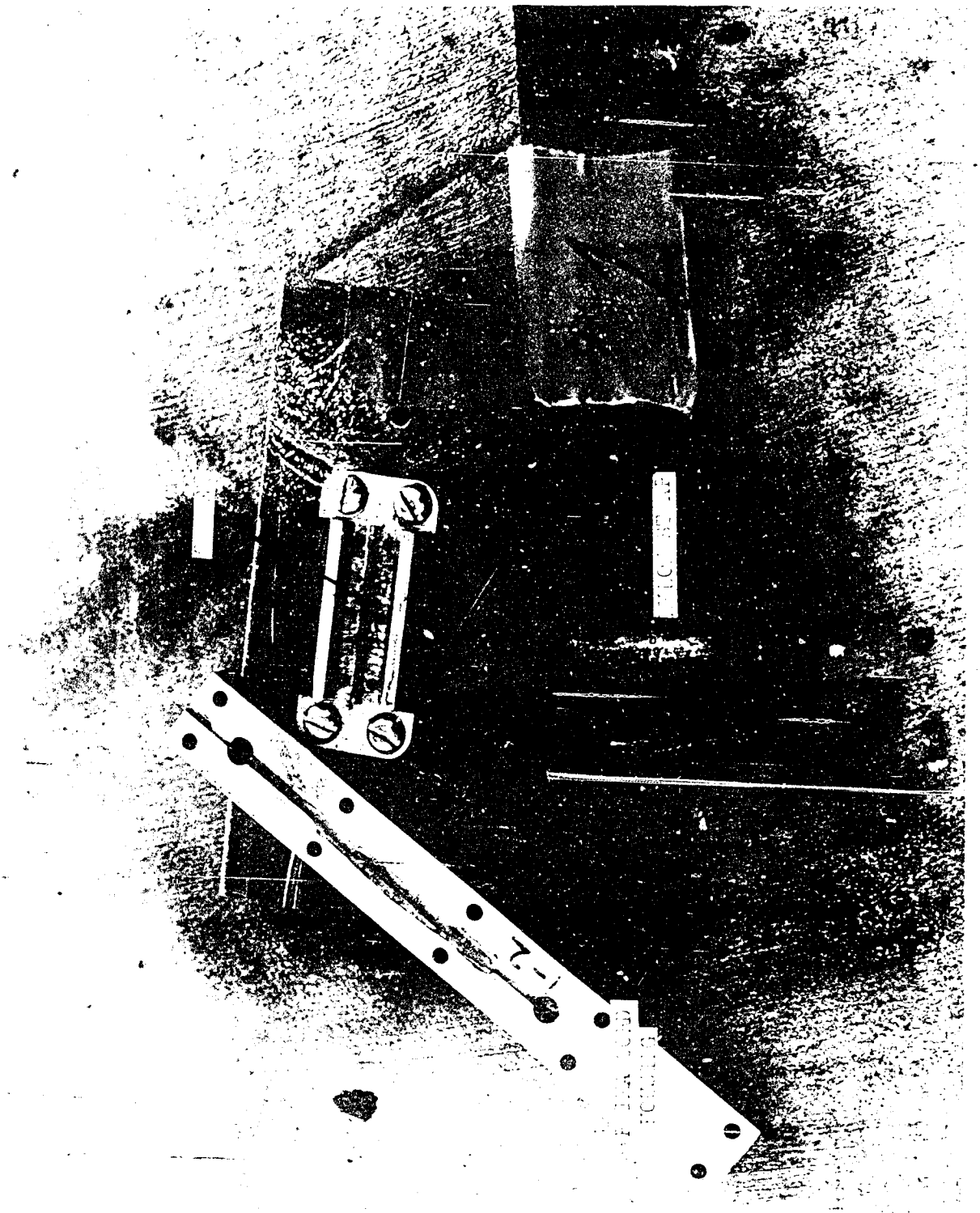

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FIG. 3 RESULTS TEST 2 - - EXPLOSIVE TEST OF RETARD CHUTE NYLON STRAP

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FIG. 4 RESULTS TEST 3 - - EXPLOSIVE TEST OF METAL CHUTE NYLON STRAP

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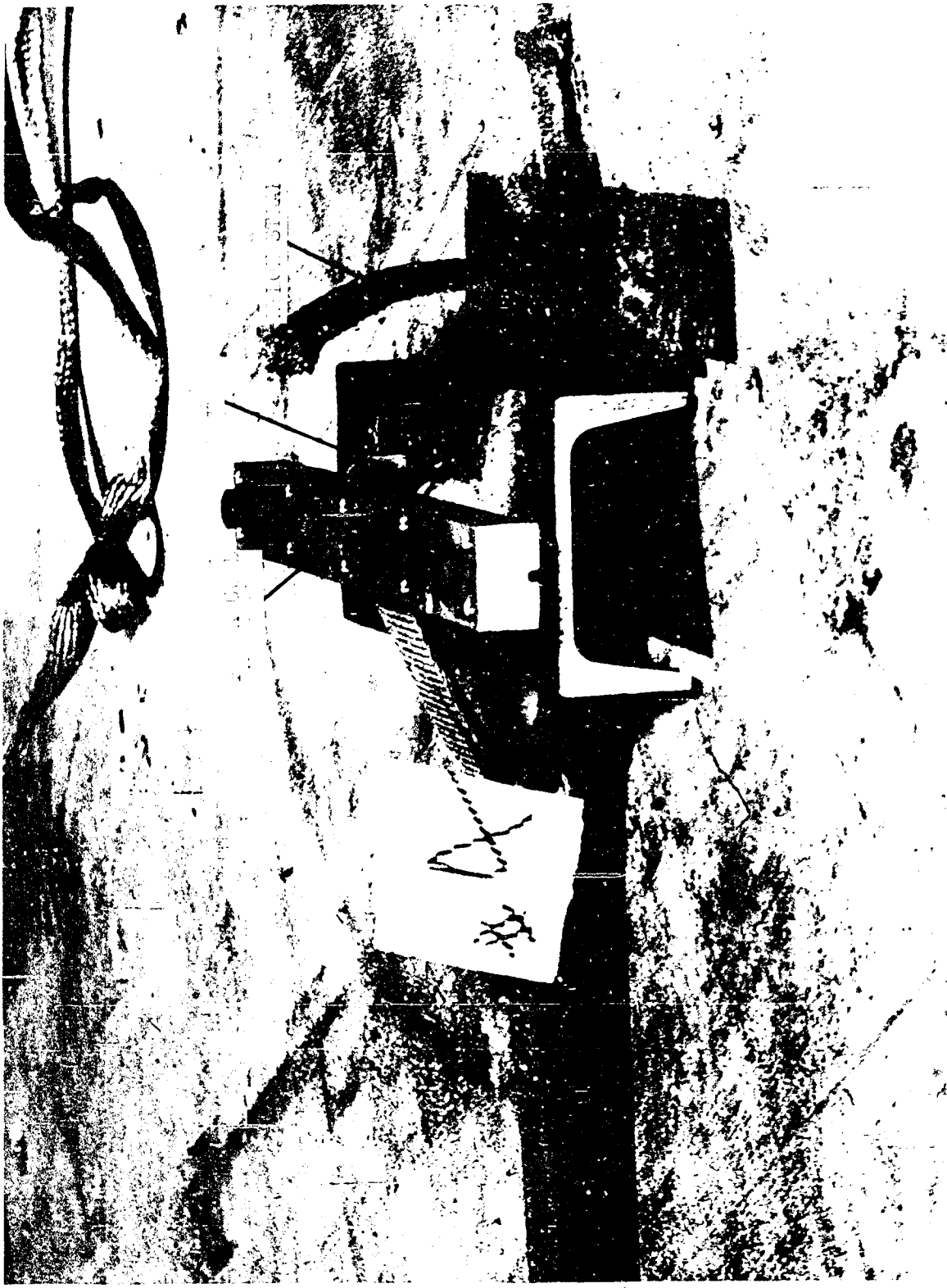

FIG. 5 RESULTS TEST 4 - - EXPLOSIVE TEST OF RETARD CHUTE NYLON STRAP

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