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DATE: 4 August 1945
TO: _____
FROM: AH-4
SERIAL NUMBER: T-101
SUBJECT: Kingman Test

VERIFIED UNCLASSIFIED *Openheimer*

LR 1-15-99

PUBLICLY RELEASABLE
LANL Classification Group
LR 1-15-99

FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
OCT 28, 1980

Nature of Unit and Test.

FM, as complete a Unit as possible excluding active material, including X-Unit, O-3 fusing and MK III in 1, HE Blocks.

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Summary of Report:

Unit T-101 was as complete a Unit as possible excluding active material. The assembly of Unit was normal. The Ordnance Group failed to place Unit at lit level, therefore some juggling was necessary before release would lock. Captain D. Semple reports the air operation was very good. Unit was dropped at K. Observation on the ground was reported by Captain Grandoy, Lt. Ritter, Lt. Blackburn, Lt. Arthur and Mr. Doom. They reported a detonation at approximately the correct altitude, also reported that there was a round ball of flame observed followed by a dense cloud of grayish-white smoke.

~~RESTRICTED DATA~~
~~This document contains information...~~
~~as defined in...~~
~~1951.~~
~~to Administrative and...~~

NOTE: This is a Preliminary Report.

This report is not to be considered final. It is a preliminary report subject to revision pending more complete data.

Project Representatives:

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LMR OCT 28 1980

J. Simmons
G. B. ...

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CONTENTS OF REPORT

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- I Date Sheet for 1560 type unit
 - a. Physical Characteristics
 - b. Mechanical Components
 - c. Sphere
 - d. Ellipsoids

Information Obtained by _____
1st Lt. E. Zebronski

- II 14 X - 5 Detonator Equipment.
 - a. Equipment and location of Mounting
 - b. Tentative Results.

Information Obtained by _____
1st Lt. H. G. Ritter

- III O-3 Fusing Equipment.
 - a. Equipment and location of Mounting
 - b. Tentative Results

Information Obtained by _____
Captain Grandey

- IV Loading of Unit 1560 to Plane

Information Obtained by _____
W. A. Wickett

- V Flight test data

Information Obtained by _____
Captain D. Sample
Eugene Gardner

44911242

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DATA SHEET FOR 1560 TYPE UNIT

PHYSICAL CHARACTERISTICS: (Data taken on completed unit.)

1. Gross Weight 9,700 Pounds. (Scales)
2. Center of Gravity 2 inches aft of parting line of ellipsoids.
3. Alignment of Tail to the Longitudinal Axis. (Dimensions taken from parting line of ellipsoids to aft edge of tail)

Right	<u>79 3/4</u>	inches.
Left	<u>79 3/4</u>	inches.
Top	<u>79 3/4</u>	inches.
Bottom	<u>79 3/4</u>	inches.
4. Lug Location 1 1/2 inches aft of parting line of ellipsoids, measured from the center of lug bearing surface.
5. Sealing (Gasket or stripable film, if sealed) Gasket & Stripable Film
6. Overall Length 128 inches.

MECHANICAL COMPONENTS:

1. Tail:
 - 1.1 Angle of Drag Flates Measured with machinist square and shown on attached drawing.
 - 1.2 Type of Tail Standard: Drawing No. Y-1560-3
 - 1.3 Weight of Tail 505 pounds.
2. Sphere:
 - 2.1 Detonator Booster Holes 32-two inch holes
 - 2.2 Fit Trap Door - 18 1/2"
 - 2.3 Spacers between blocks. Unknown.
 - 2.4 Spacers between Pit and Blocks. Unknown.
 - 2.5 Composition of Blocks H.E. Mk III
 - 2.6 Suspension Lug Steel with Bronze Insert
 - 2.7 Detonators 32-Y1773, Handle Bar (live)
 - 2.8 Detonator Retainer Type Detonator Retainer Clip
 - 2.9 Weight of Sphere Not Accomplished.

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3. Ellipsoids:

- | | | |
|-----|---|---|
| 3.1 | Impact Fuses, type of | <u>AN M219</u> |
| 3.2 | Fuse-train Ass'y | <u>Standard adapter booster train (live)</u> |
| 3.3 | Inside diameter of Nose Ellipsoid. (Wide End) | Vertical Diameter <u>Not Accomplished</u>
Horizontal Diameter <u>Not Accomp.</u> |
| 3.4 | Inside diameter of Tail Ellipsoid. (Wide End) | Vertical Diameter <u>Not Accomplished</u>
Horizontal Diameter <u>Not Accomp.</u> |

Reported By. Lt. Edward Zebrowski

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KINGMAN UNIT REPORT
X-5 DETONATOR EQUIPMENT



Drop No. T-101

Drop Date 4 August 1945

Unit No. 95

X-5 Flight Crew Lt. Graham

X-5 EQUIPMENT AND LOCATION OF MOUNTING

A Plate:

R. J. Box 1

Battery Box 1

Pump 1

Inverter 1

B Plate:

X Unit 1

Misc.

Safety Flugs 2

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AR 1-15-99

1. Flare Control Box # FTB-2 003
2. Data taken in Flare
(Charge and Discharge) Reasonable Yes.
3. Flare's D. C. Voltage before drop 27 v. D.C.
4. Internal Invertto Voltage
calibrate from Flare's A.C. 130 v. A.C.
5. Internal Battery Voltage
calibrate from Flare's D.C. 32 v. D.C.
6. Pull-out Plug breakage None
7. Informer Data None Installed
 - a. Armed Apparently
 - b. Fired Apparently
 - c. Detonator Switch None Installed

RECORDED DATA

8. Smoke luffs observed None Installed

9. Remarks:

The Unit was dropped and observed by members of O-3, X-5, H.E. crew, and Mr. Doorn. The dropping altitude was 28,000 ft. The Unit was seen falling and followed down until it exploded at an altitude of approximately 1500 ft. where upon a round ball of flame was observed followed by a dense cloud of grayish white smoke. No fragmentation was observed, probably due to the fact that the observers were too far away from the point of explosion.

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Reported By. 1st Lt. H. G. Ritter



2264 | 245

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KINGMAN UNIT REPORT
O-3 FUSHING EQUIPMENT

Drop No. T-101

Drop Date 4 August 1945

Unit No. 95

O-3 Flight Crew Lt. Allison

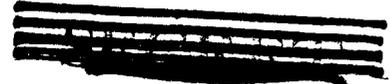
Type of Unit H.E. Unit - no informers.

O-3 Information Desired No informer data - just that the detonation occurred at the proper place.

O-3 Equipment and Location of Mounting

Calculate:

Archives 4



Clock Box 1-13F4

Delay Relays 2

Baro Sws 6

A B B 1

Remarks:

Ground observers - Captain Grandey, Lt. Ritter, Lt. Blackburn, Lt. Arthur and Mr. Doom reported a good detonation at approximately the correct altitude.

Reported By Captain Grandey



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