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AUTHORITY	
ARRADCOM, via ltr, 3 Feb 1980; DA Form 1575, 25 May 1995	

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SECURITY INFORMATION

EXAMINATION OF UNFIRED 85 MM AFIB-T, COMPLETE ROUND
OF SOVIET ORIGIN, MCD UER-365 FILE-2284

Project No T33-0035

Report No 1

Pier Hany Arsenal Serial No 1911

April 1953

Prepared by:

M. S. Vliet

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Agency Performing Work: Pictinny Arsenal
Agency Authorizing Work: Chief of Ordnance -CRDTA
Project No T33-0039 Report No 1
Priority, DCA 2A
Project Title: Examination of Unfired 85 mm AFEB-T, Complete Round of
Soviet Ammunition, Mod UEB-365 (TMM-2224)

SUBJECT

To conduct a technical examination, including preparation of photographs, dimensioned sketches, a complete round drawing, chemical analysis of explosives and metallurgical examination of the projectile and cartridge case.

SUMMARY

One loaded and fused complete round of Soviet 85 mm AFEB-T, Ammunition was subjected to technical examination. The complete round consists of a base-fused, uncapped, armor-piercing projectile and tracer, assembled in a primed brass cartridge case. The cartridge case contains a coil of soft lead wire, two closing cups, cylindrical distance and a propellant powder charge packed loosely in a bag. A black powder igniter charge is contained in a separate plastic pad in the cartridge case at the base of the propellant charge bag.

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INTRODUCTION:

In accordance with request from the Chief of Ordnance, Ref A (Incl 8), one unfired complete round of Soviet 85 mm AFEB-T, Mod UER-365, Ammunition was subjected to technical examination. Metallurgical examination, with dimensioned drawing of a similar cartridge case was made at FA, Ref C. Metallurgical examination, with dimensioned drawing of the projectile was made at Watertown Arsenal, Ref "B", and general and chemical examination of other components were made at Picatinny Arsenal.

DESCRIPTION:

1. Complete Round

a. General

The complete round is shown, as received, and after disassembly into its principal components, on Photograph M-41457 (Incl 1). A complete round assembly, in section, is shown on Drawing P-65058 (Incl 2). The cartridge case is attached to the projectile by a 360° crimp into a single groove to the rear of the projectile rotating band.

The propellant powder consists of cylindrical, multi-perforated grains contained in a cloth bag. The bag is closed with a cotton cord at the mouth. The igniter charge of black powder is contained in a separate plastic pad. After insertion of the igniter pad and propellant bag, a coil of soft lead wire is placed on the forward end of the charge. This lead wire is used as a decoppering agent to prevent fouling of the gun barrel with copper from the rotating band. Forward of the charge is a waxed paper closing cup, cylindrical spacer and a second closing cup. The second closing cup has a central hole to permit the exposed end of the tracer assembly to enter the paper cylinder. This spacer assembly serves to hold the propelling charge against the primer boss. The various parts referred to are shown on Photograph M-41457 (Incl 1).

b. Data

Weight of complete round	34.35 lb
Length of complete round	32.43 in
Diameter of lead wire (approximately)	.04 in
Weight of lead wire (approximately)	.06 lb

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c. Marking

Printing in black on the bag is as follows:

54 - X - J25
83mm J3H RYM
GSP. 33-
 $\frac{14}{100} \cdot \frac{25}{157} \frac{3}{4}$
31 - 43 - T.
33P7A 222804
25-12 R

2. Projectile

a. General

The projectile consists of a steel body with two copper rotating bands. The base is of boattail design. A sectioned view of the projectile is shown on Drawing P-83058 (Incl 2). Immediately to the rear of the bourrelet is a deep circumferential groove which is packed with a heavy grease. To the rear of the rotating bands, on the cylindrical surface, is a shallow groove for crimping the cartridge case to the projectile. The projectile does not incorporate an armor-piercing cap.

At the base of the projectile is a bursting charge cavity threaded for a base fuze with tracer assembly. A lead caulking ring seals the forward flange of the fuze against a shoulder in the cavity. One cushion of paper is used to fill the void between the fuze booster and the bottom of the booster cavity. A total of four paper washers and one aluminum foil washer fills the void between the fuze body and the bursting charge.

The sharp "V" groove in the body just below the bourrelet is believed to be present for controlled location of fracture of shot upon impact. This may serve a useful purpose at high obliquity striking angles.

b. Data

Weight of projectile as fired	20.13 lb
Weight of projectile, empty	19.71 lb
Length of projectile	10.47 in
Diameter of Bourrelet	3.340 in
Degree of boattail taper	9°
Width of rotating band (flat)	.437 in
Weight of bursting charge (PEX / Aluminum)	.15 lb

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c. Marking

The projectile is marked, in black, as follows:

	<u>Coverse</u>	<u>Reverse</u>
On the ogive		8
On the body	85	

3.77
14-44

On boattail

1
04

The following stamping appears on the projectile rotating band:

2-9X

(4)

d. Metallurgical and Chemical Analysis

Results of the metallurgical examination of the projectile including a dimensioned drawing are contained in Watertown Arsenal Metallurgical Report No WAT 762/544, Ref 2.

Chemical analysis of the bursting charge is contained in PA Chemical Laboratory Report No 53-31-903 (Incl 7).

3. Fuse

a. General

The fuse assembly is shown in section on Drawing P-83973 (Incl 3) and disassembled into its main components on Photograph M-38545 (Incl 4). A comparatively small tubular booster assembly, on the forward end of the fuse, is installed in the bursting charge. The fuse consists of a steel fuse body, lead cushioning ring, primer assembly, steel arming sleeve, steel firing pin, delay charge assembly, copper delay charge washer, fiber detonator cushion, detonator assembly and a booster assembly.

b. Functioning

The fuse is believed to function as follows: When the round is

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fired, ast-blast force causes the split arming sleeve to move rearward, being forced open by the larger diameter of the fuse primer assembly, and to come to rest against the lead cushion, thereby arming the fuse. Upon impact with the target the primer assembly moves forward impinging the primer against the firing pin. The flame from the primer passes through the flash hole in the firing pin, igniting the delay charge. The flash from the delay charge passes through to the detonator initiating the detonator charge which, in turn, functions the booster charge.

a. Detonator-Booster Assembly

The detonator-booster assembly consists of a steel booster body, a booster charge consolidated in the base of the body and a detonator assembly. One paper washer and two thin paper discs are interposed between the delay charge assembly and the detonator assembly. A delay charge assembly is screwed into the open end of the detonator-booster assembly which, in turn, holds the firing pin in position when assembled in the fuse body.

d. Data

Weight of fuse with tracer	.27 lb
Length of fuse with tracer	2.58 in
Thread Data, (Metric) Major - 24. mm Pitch - 1.5 mm	

e. Tracer

The tracer assembly consists of a drawn steel body, a steel tracer cup containing the pressed tracer charges and a celluloid closing disc, .009 inch thick. The tracer and tracer igniter charges are consolidated in the charge container in that order, and the upper surface of each finished with a three-step pattern. The celluloid closing disc is dropped in the tracer body and the charge container is pressed into place with the open end towards the disc. The threaded body is then screwed onto the base of the fuse.

f. Booster

The booster assembly consists of a drawn steel body containing the booster charge, and holding the detonator assembly and delay assembly. The booster charge is consolidated in the forward or cup portion of the body. The firing pin is held in place by the booster assembly and a shoulder in the fuse body.

g. Data

Length of booster body	1.04 in
Thread Data (Metric) Major - 14. mm Pitch - 1.5 mm	

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b. Chemical Examination

Analysis of the tracer, primer, delay detonator, and booster charges are contained in Pl Chem Lab Rpt No 53-21-908 (Incl 7).

4. Cartridge Case

a. General

The cartridge case, which is of brass, is of conventional design. In the base is a threaded hole for assembly of a short type percussion primer. When assembled to the projectile, the cartridge case is attached by a single 360° crimp into a groove in the projectile body. Results of the metallurgical examination, and a dimensioned drawing of a similar cartridge case, are contained in Frankford Arsenal Ordnance Laboratory Report No 12-483 (Ref C).

b. Data

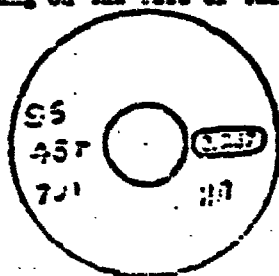
Weight of Cartridge Case, Empty	8.22 lb
Diameter at mouth of Case	3.306 in.
Length of Case	24.60 in
Max Diameter of Extractor Flange	4.40 in
Diameter of flat above Flange	4.00 in
Thickness of Extractor Flange	.16 in

c. Marking

Stenciled in black, the following markings appear on the side of the cartridge case:

YSP-355
83-3
 $\frac{1}{4}$ CS $\frac{5}{16}$ 8
150-45-1

Stenciled marking on the base of the cartridge case is as follows:



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5. Propellant Charge

a. General

The propellant charge is contained in a cloth bag. It consists of multiperforated cylindrical grains. Analyses of the propellant and black powder igniter charges are contained in the PA Lab Rpt No 51-21-903 (Incl 7).

b. Data

Weight of propellant charge with bag	3.69 lb
Weight of igniter charge	20.50 grains
Weight of lead wire	.06 lb
Diameter of lead wire	.04 in

6. Primer

a. General

The primer is the standard Soviet KB-4 short percussion type provided with threads for assembly into the base of the cartridge case. An assembly view and details are shown on Drawing P-83410 (Incl 9). It consists of a steel primer body, brass primer cup containing the primer charge and held in a brass primer cup holder; obturator in brass retaining screw; loose black powder charge, black powder pellet, paper inner disc and a copper outer disc crimped into position to close the forward end of the primer assembly. A paper label in the form of a disc, is staked on the outside of the coated copper closing disc.

b. Data

Weight of primer	.16 lb
Length of primer	.94 in
Diameter of head	1.173 in
Thread Data (Metric)	Major 28.2mm Pitch - 1.8 mm

c. Functioning

The primer is believed to function as follows: deformation of the body caused by the impact of the firing pin, presses the composition in the cup against the retaining screw, the lower end of which forms the anvil, igniting the composition. The flame passes around the obturator and through the hole in the retaining screw, igniting the loose powder. This ignites the black powder pellet which in turn causes the initiation of the propellant charge assembly.

7. Packaging

The Soviet 85 mm APFSD-D, Composite Round was received packed in an unopened wooden box. No information is available as to the standard method of packing this round for shipment to the field.

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REFERENCES:

- A. Letter, CO 386.3/64, CRDND 386.3/2
- B. Watertown Arsenal Ordnance Laboratory Report WAL 762/544
- C. Frankford Arsenal Metallurgical Report No FR-483

ENCLOSURES:

- 1. Photograph M-41457
- 2. Photoprt P-85058
- 3. Photoprt P-83975
- 4. Photograph M-38645
- 5. Photograph M-41457/1
- 6. Photograph M-41457/2
- 7. PA Gen Lab Rpt 53-HI-908
- 8. Copy letter Ref A
- 9. Photoprt P-83410

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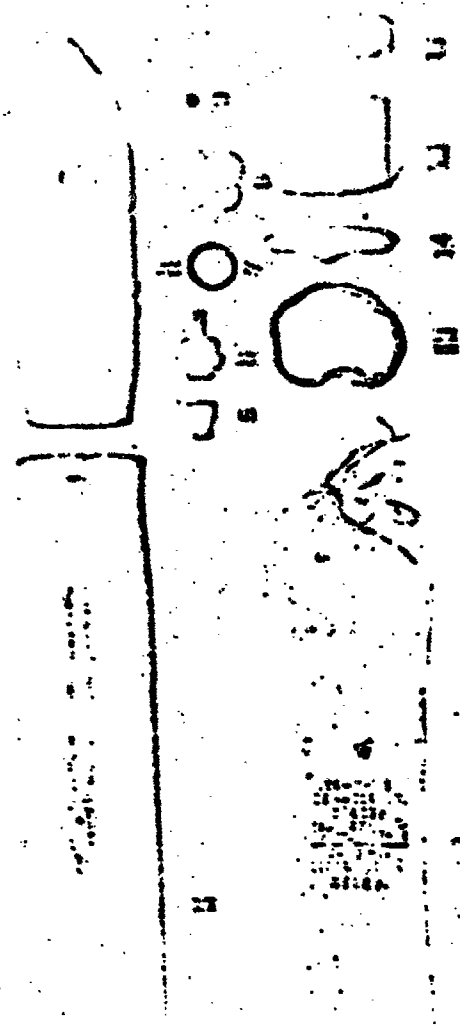
EXAMINATION OF UHFIR 85 IN AFEE-T, COMPLETE REVIEW
OF SOVIET ALLEGATION, MOD UER-365 FORM-2224

Report by: *M. S. Vliet*
M. S. Vliet
Eng Aide

Approved: *CLARK*
for C. V. CLARK
Col, Ord Corps
Chief, Tech Div
JCC

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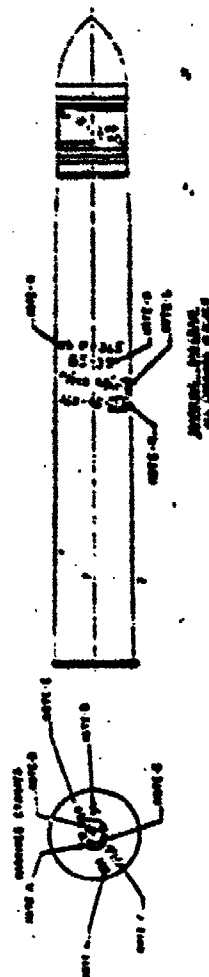
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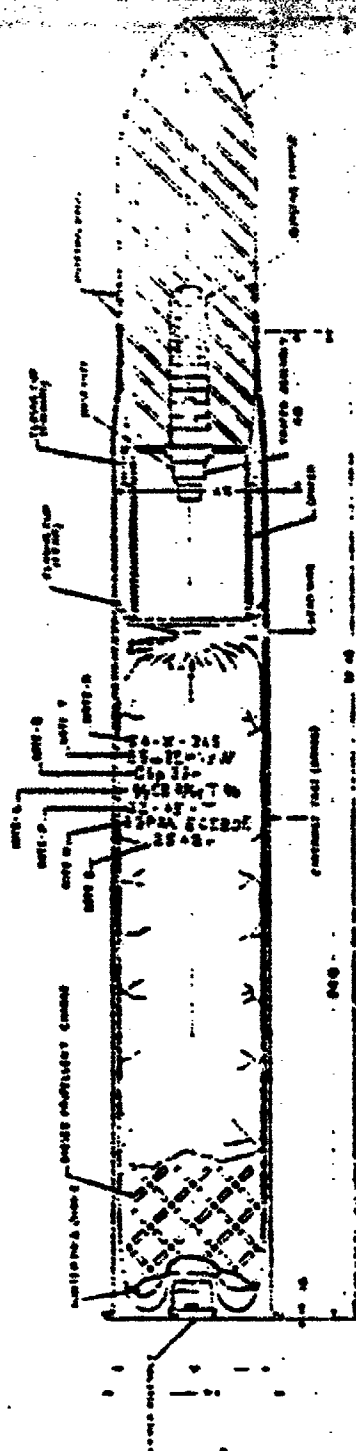
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|---|-----------------------------|-------------------------|-----------|-----------------|
| M-41457 | February 1953 | Picatinny Arsenal | PNAM-228A | Ordinance Corps |
| 85mm APHE-T Round (Soviet) Mod. UBR-365 | | | | |
| 1. Complete Round | 7. Washer | 13. Lead Wire | | |
| 2. Percussion Primer | 8. Aluminum & Paper Washers | 14. Closing Cup (Lower) | | |
| 3. Cartridge Case | 9. Felt Spacer | 15. Spacer | | |
| 4. Projectile | 10. Paper Closure | 16. Closing Cup (Upper) | | |
| 5. Tracer | 11. Igniter Powder | | | |
| 6. Fuze | 12. Propellant Powder | | | Confidential |

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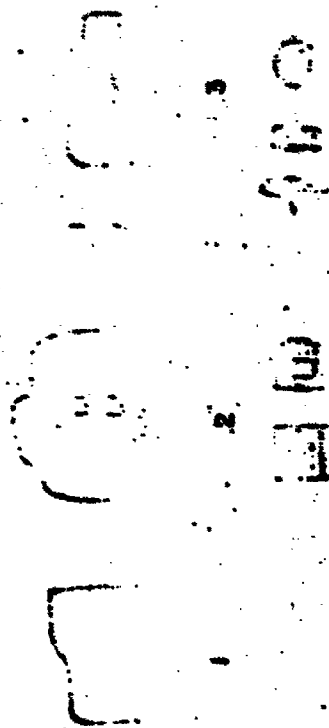
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U.S. AIR FORCE
 TECHNICAL DRAWING



ORDINANCE CODE

REQUIREMENT AREA

14-36645 May 1951

Fuse, Base, with Tracer (Soviet),

1. Tracer Assembly

2. Fuse Body

3. Detonator Booster Assy.

4. Arming Sleeve

5. Primer Assembly

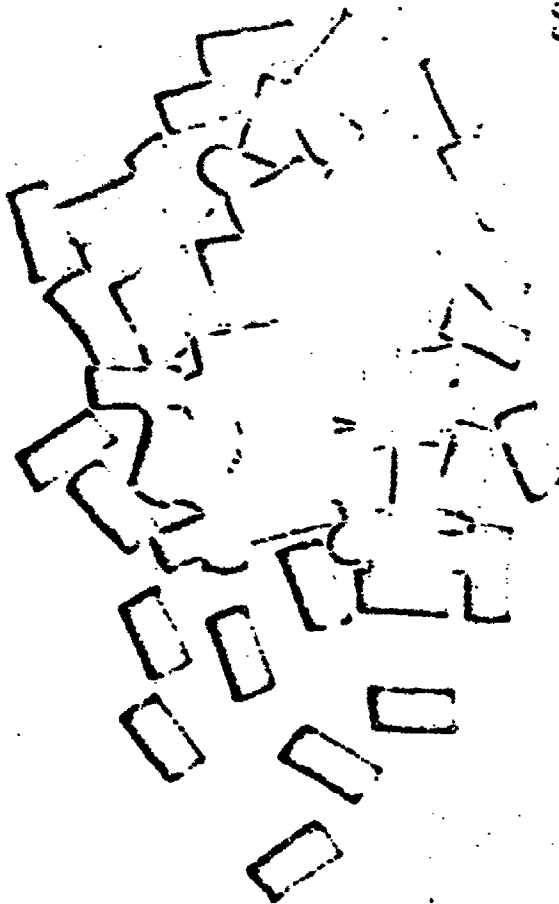
6. Firing Pin

7. Delay Charge Assy.

8. Detonator Washer

9. Closing Disc

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M-41457/1	February 1953	MCATHRY ARSENAL	FWAM-2281,	CARRIAGE CORPS
Propellant Powder from 85mm APHE-T Round (Soviet)				Confidential

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M-41457/2 February 1953

PEACHTREE ARSENAL

FIAM-2284

ORDNANCE CODE

Igniter Powder from 45mm APHE-T Round (Soviet)

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REPORT FROM THE GENERAL LABORATORY

W. PLATE NO.
 53-171-000
 DATE
 13 April 1963
 SAMPLE NO.

KIND OF SAMPLE Foreign Ammunition, Soviet, 85 mm C/R APHE-T Mod.-1111-165

RECEIVED FROM Design Dftr and Foreign Ammo Unit of Ammo Dev Br A

REFERENCE OR N. O. 329-636-901

REPRESENTING Explosive Charges from the Round

PMAN 2201

DATE RECEIVED

Object:

To make the following determinations on the components listed below:

Results:

Cartridge Case Primer - "See Remarks"

Primer Charge

Weight of Charge, gm

Chemical Composition:

Mercury Fulminate, %

Potassium Chlorate, %

Antimony Sulfide, %

Carborundum, %

First Flash Charge: (Loose Material)

Weight of Charge, gm

Chemical Composition:

Potassium Nitrate, %

Sulfur, %

Charcoal, % (by diff)

Ash (mostly iron oxide), %

Second Flash Charge (Pellet)

Weight of Charge, gm

Chemical Composition:

Potassium Nitrate, %

Sulfur, %

Charcoal, % (by diff)

Ash (mostly copper and iron oxide)

0.020

33.0

27.5

34.5

5.0

0.57

73.6

9.5

16.9

5.5

73.6

9.1

17.3

1.1

WORK BY:

SUBMITTED:

APPROVED:

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REPORT FROM THE GENERAL LABORATORY

15-111-1013

DATE

13 April 1953

Igniter Propellant:

Weight of Charge, gm

Chemical Composition:

Nitrocellulose (by diff), %

Nitrogon, %

Diphenylamine and Nitro-derivatives

of diphenylamine, %

Graphite, %

Propellant

Weight of Charge, lb

Chemical Composition:

Nitrocellulose, (by diff), %

Nitrogon, %

Diphenylamine and Nitro-derivatives

of diphenylamine, %

Total Volatiles, %

Grain Measurements, inch

Form

L = 0.6157

D = 0.2937

d = 0.0225

W₀ = 0.0620

W₁ = 0.0511

W₂ = 0.0566

W₃ = 0.0566

Multi-perforated

AVG Var % 3.75

AVG Var % 1.80

Difference between W₁ and W₀ in % of W₀ = 19.26

Ratio - L/D = 2.10

Did 213.65

Puze Assembly: "See Remarks"

Primer:

Weight of Charge, gm

Chemical Composition:

Mercury Fulminate, %

Potassium Chlorate, %

Antimony Sulfide, %

Delay Charge

Weight of Charge, gm

Chemical Composition:

Potassium Nitrate, %

20.6

97.2

1.4

1.4

5.60

95.4

1.3

3.3

13.01

12.72

0.023

21.0

42.0

37.0

0.19

74.5

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REPORT FROM THE GENERAL LABORATORY

REPORT NO.
 C. 2. 11. 1
 DATE
 13 April 1951

Sulfur, %	10.2
Carbon, % (Diff)	15.3
Detonator:	
Top Charge:	
Weight of Charge, gm	0.034
Chemical Composition	Lead Styphnate
Intermediate Charge:	
Weight of Charge, gm	0.13
Chemical Composition	Lead Azide
Bottom Charge:	
Weight of Charge, gm	0.48
Chemical Composition	Tetryl
Booster:	
Weight of Charge, gm	0.48
Chemical Composition	Tetryl
Tracer Assembly	
Igniter	
Weight of Charge, gm	0.6
Chemical Composition:	
Darium Peroxide, % (Diff)	75.4
Magnesium, %	20.4
Binder, %	4.2
Tracer	
Weight of Charge, gm	58.0
Chemical Composition:	
Magnesium, %	33.8
Strontium Nitrate, %	8.2
Binder, %	
Bursting Charge	
Weight of Charge, lb	0.15
Chemical Composition:	
IOX, %	72.2
Aluminum, %	21.7
Wax (Paraffin), %	6.1

REPORT FROM THE GENERAL LABORATORY

51-401 2001

DATE

13 April 1953

REMARKS:

The chemical analysis of the fuse charges and tracer compositions was taken from General Laboratory Report No. 51-7-951 and that of the primer charges was taken from General Laboratory Report No. 137062 since these components were considered to be the same as the components of the subject round by the Artillery Ammunition Section.

WORK BY:

A. Callanan
I. Koller

SUGGESTED: *S. F. Rose*

S. F. Rose
Chief, Exp Anal Unit

APPROVED: *S. F. Rose*

S. F. Rose
Chief, Gen Lab Sec

SECURITY INFORMATION

ALL COMMUNICATIONS SHOULD BE ACCOMPANIED BY CAN COPY AND REPLIED TO

TO YOUR PROMPT ATTENTION
IN REPLYING REFER TO:

NO. _____
ATTENTION OF _____
OFFICE OF _____

WAR DEPARTMENT

OFFICE OF THE CHIEF OF ORDNANCE
WASHINGTON, D. C.

ATTACHED

3 NOV 1950

Subject: Arrangements for the Examination of Soviet and North Korean
Ammunition

TO: Commanding Officer
Artillery Arsenal
Fort, New Jersey

1. This office is arranging to have Artillery Proving Ground ship
to your Arsenal, one round of each type of Soviet or North Korean
ammunition, which is received from the Theater of Operations. Each
such shipment will refer to Project No. T-1-3000.

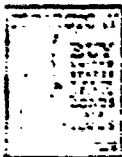
2. It is desired to have your Arsenal make a complete examination
and analysis of the various components and submit a technical report on
the results. This examination should include the usual factors, such as
the general design, weight, and chemical analysis of the propelling charge
and primer charge; and general design features of fuses, propellant,
cartridge cases, etc. Any AP that remains from rounds should be sent
(after removal of all explosives) to Artillery Arsenal, for metallurgical
examination.

3. The funds required for this work should be taken from those
available under Project No. T-1-3000; the priority of this project is
21. The security classification of the reports should be CONFIDENTIAL.

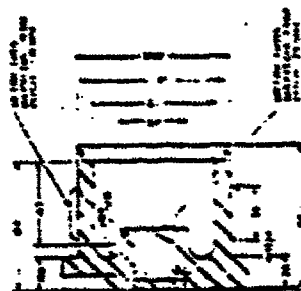
BY COMMAND OF THE CHIEF OF ORDNANCE

Artillery Arsenal

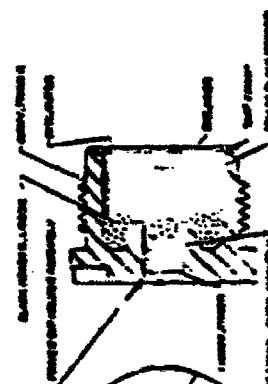
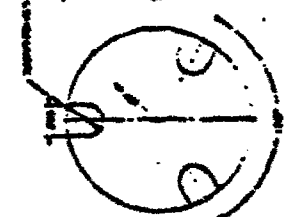
W. L. STONE, Jr.
Col, Art Corps
Assistant



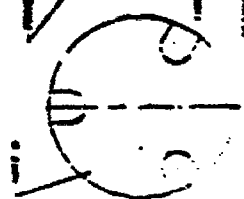
OFFICE 2



10-20-1984



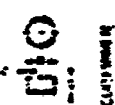
ACTION REQUIRED



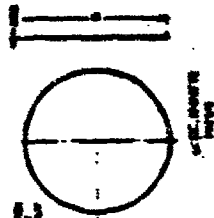
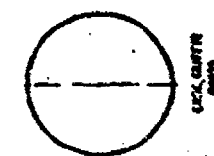
THE UNIVERSITY OF TEXAS AT AUSTIN



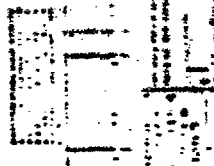
RESEARCH DESIGN



Discussion

[illegible]

MR. CLAYTON



NOTATION OF INFORMATION

SUPPLEMENTARY

INFORMATION

ERRATA

REQUEST FOR/OR NOTIFICATION OF REGRADING ACTION For use of this form, see AR 380-5. The processing agency is OACS.		DATE 25 MAR 85 FILE	
READ INSTRUCTIONS ON REVERSE SIDE BEFORE COMPLETING THIS FORM			
TO: (Include ZIP Code) Director Defense Technical Information Center ATTN: DTIC-OC Cameron Station Alexandria, VA 22304-6145		FROM: (Include ZIP Code) US Army - ARDEC AMSTA-AR-IMC, Bldg. 30 Picatinny Arsenal, NJ 07806-5000	
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