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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

S-E-C-R-E-T

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COUNTRY	Czechoslovakia	REPORT	[redacted]
SUBJECT	Warsaw Treaty Organization Conference on Coordination of Ammunition and Explosives Production	DATE DISTR.	26 July 1956
		NO. OF PAGES	3
DATE OF INFO.	[redacted]	REQUIREMENT NO.	RD 25X1
PLACE ACQUIRED	[redacted]	REFERENCES	25X1

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ENCLOSURE ATTACHED PLEASE ROUTE 25X1

[redacted]

1. A Conference of the Warsaw Treaty Organization on Coordination of Ammunition and Explosives Production was held in Prague from 5 to 18 April 1956. Sessions were held at the Narodni Klub (National Club), Prague-Nove Mesto, Na prikope 10, with about 60 delegates participating. At the Conference the types of machinery to be standardized for the production of ammunition and explosives were decided upon.

2. Heads of National Delegations[1]

[redacted] 25X1

a. The USSR representative was Ofsjeranikov, Minister.
b. East Germany's representative was Kunat (Kunath), Deputy Minister.
c. Poland was represented by Sablevski (fnu).
d. The Hungarian representative was Hajos (fnu).
e. Czechoslovakia was represented by Eng. Vyskoc (fnu), Deputy Minister.
f. Eng. Pros (fnu), of Czechoslovakia, acted as Secretary to the Conference.

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3. The participants worked in five groups concerned with the following subjects: small arms ammunition; artillery cartridge cases; field guns and grenades; automatic fuses; explosives.

4. Decisions reached at the Conference

[redacted]

a. It was decided to invite Bulgaria and Rumania to cooperate.
b. The decision was made to set up a subcommittee to follow closely the exchange of experience in development of machinery and tool design necessary to establish a standard ammunition arsenal for the whole of the Soviet Bloc.
c. As a preliminary measure, the groups mentioned above (in para 3) selected from all the machines used by the participating countries in various production processes those which satisfied the requirements for the purpose. Then they decided upon certain alterations in order to achieve standard dimensions of the models.
d. It was further decided that in the future new plants must be set up for the production of machinery of fixed types.

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STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC		ORR	X		

(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

25X1

e. Machinery was classified in the following three groups:
(1) up to 9 mm caliber
(2) 10 to 25 mm caliber
(3) Over 25 mm caliber.

f. Czechoslovakia has been in the process for ten years of preparing a project for the construction of munitions factories. This project was studied at the Conference. The Soviet representative, Sokorov[2] (fnu), immediately discovered defects in the placing of the various production centers in the factories. The Conference concluded that under ideal conditions a munitions factory should have a production line of three persons, with all the rest mechanized.

g. A munitions factory is to be built underground, and a site is being sought for it in Slovakia, probably in the Dubnice area.

h. The Germans promised to make it possible for members of this commission to visit Germany in August 1956 to inspect some factories for the production of measuring instruments.

5. General remarks on the Conference

a. Although the atmosphere at the Conference was quite friendly, there were some differences of opinion caused chiefly by reluctance of the Polish and Hungarian delegates to accept standardization on the basis of Czechoslovak and German machinery, which forms the majority.

b. During the Conference it was pointed out on two occasions that at present the Americans have machinery of a capacity two or three times as great as any possessed by the Soviet Bloc.

[redacted] 25X1

6. Some participants

a. Eng. Pros: [redacted] 25X1

b. Eng. Macko (fnu), Eng. Grim (fnu), and Eng. Kalousek (fnu), all from the Konstruktiva National Enterprise in Prague, and Eng. Flajshans from the Blanicke Engineering Works National Enterprise.

c. Some delegates from Zbrojovka-Vsetin and from Konstruktiva National Enterprise, Brno, as well as representatives from other plants also took part.

7. The next session is to be held in September or October 1956 in Moscow. It is to be preceded by a meeting of the Secretaries, who in the meantime are to prepare an elaborate program comprising about 100 points dealing with exchanges between member countries. All participants are to familiarize themselves with the documentation before the Conference, so that it may be a working session.

8. [redacted] machinery coming under the standardization plan [redacted] 25X1
[redacted] are 26 machines for making artillery cartridge 25X1
cases and 12 machines to be made in the future; 37 machines for producing the 25X1
cases for field gun shells and grenades; and 6 machines for final and checking operations on 37-152 mm. shells. It is mentioned that 50 different machines, apparatus and appliances for the production of automatic VM-30L fuses also are included in the standardization scheme, but these machines are not further identified.

[redacted] 25X1

[redacted] Comments: 25X1

1. Names and designations reported as received. The spelling of the USSR representative's name should probably be Ovsyannikov; the spelling of the Polish representative's name should probably be Soblewski.

2. Probably should be Sokolov or Zakharov.

25X1

Appendix

List of machinery to be standardised 25X1

I. Small-arms ammunition - No information.

II. List of machines for artillery cartridge cases.

1) Vertical ?crank - ("klikovy") press - 800 tons, DC 800/1250; for cutting discs out /for 37 - 152 mm. German machine, to be ready by 1958.

2) Vertical ? elbow ("Kolenovy") press - 7,000 tons, LLH-1000/90; for pressing discs for 37mm cartridge. Product of Czechoslovakia.

3) Vertical "Kolenovy" press - PK/1.600; for pressing 57-85 mm, cartridges and for moulding 37 mm discs. To be made in Poland and Germany in 1958.

4) Vertical "Klikovy" press - 85 ton, make LEE: for cup-drawing ("Kaliskovani" and for first and second drawing of 37mm cartridges. Product of CSR.

5) Vertical "klikovy" press - 250 tons; DC;. for cup-drawing and first drawing of 37 mm cartridges. German product.

6) Vertical, ? comb ("hrebenovy")press: 30 tons, LN. for third and fourth drawing of 37 mm cartridges, product of CSR.

7) Vertical "kolenovy" press:400 tons, KHT; for pressing 37 mm cartridges. Product of CSR.

8) Vertical "Kolenovy" press: 630 tons, PK; for pressing 37 mm cartridges. Product of Poland.

9) Vertical "klikovy" press, 30 tons, LEE/480; for sealing 37mm cartridges (uzavirani). Product of CSR.

10) Vertical "klikovy" press: 800 tons, DC; for cup-drawing 57 - 85 mm cartridges. Product of CSR.

11) Vertical"klikovy" press: 400 tons; LK; for cup-drawing 57 - 85 mm; cartridges. Product of CSR.

12) Vertical "klikovy" press: 300 tons, LK 300/900; for first and second drawing (tazeni) of 57 - 85 mm cartridges. Product of CSR.

13) Vertical "klikovy" press: 200 tons, LK 200/800; for third and fourth drawin of 57 - 152mm cartridges. Product of CSR - will be ready in 1958.

14) Vertical "kolenovy" press: 2,500 tons, PK 2,500; for second pressing of base of cartridges, 57 - 85 mm. Product of Poland.

15) Vertical "kolenovy" press: 2,000 tons, LH 2,000/112; for second pressing of base of cartridges, 57 - 85 mm. Product of CSR.

16) Vertical "klikovy" press: 67-120 ton, XMZE: for sealing cartridges in the

...../second.....

second group - i.e. up to 25 mm; product of CSR.

17) Vertical "kolenovy" press: - 400 tons, DL 400/1,000; for third and fourth drawing of cartridges. Product of Germany.

18) Vertical "kolenovy" press: 3,500 tons, LLH 3,500/132; for pressing third group cartridges, ie. over 25 mm; product of CSR.

19) Vertical "kolenovy" press: LH 100/850; for fifth drawing of second group cartridges. Product of CSR.

20) Semi-automatic machine: for pressing semi-finished products with disc cutters UAK 12; diameter of product 120, calibre 57 - 85 mm; product of CSR. Will be ready in 1958.

21) Semi-automatic machine: for pressing semi-finished products with disc cutters (diskove noze) UAK 18; diameter of product 185, up to 85 mm KC and 18 - 152 mm (?) ; product of CSR. Will be ready in 1958.

22) Six-spindle ? (sestivretenovy?) semi-automatic machine with feed for finishing bed for cartridge thread? (s podavacem na upravu loze pro zavit nabojnic) 37 mm. Product of the USSR.

23) Five-spindle ? semi-automatic machine: ANK 155; with feed for finishing bed for cartridge thread (?) 37 mm. Product of CSR.

24) Special lathe - SP-72 MA;for cutting the struts ? (vystuzeni) for 37 mm cartridges. Product of CSR.

25) Single-spindle? (jednovretenovy) semi-automatic machine: KTI-15; diameter of product 180 mm, for finishing bed for thread, 85 mm KC and 18-152mm. Product of Hungary.

26) Single-spindle? automatic-machine: diameter of product 105 mm; for finishing bed for thread 57 - 85 mm; Product of Hungary.

IIA. List of prospective machines and equipment (i.e. machines to be made in the future)

1) Vertical "klikovy" press: 250 tons; 2 dies, length of stroke 400 mm; for drawing 37 mm cartridges. Product of the USSR.

2) Vertical "klikovy" press: 250 tons; 2 dies, length of stroke 900 mm; for third and fourth drawing of 37 mm cartridges; product of USSR.

3) Vertical "klikovy" press: 100 tons, length of stroke 400 mm; for sealing 37 mm cartridges. Product of the USSR.

4) Vertical oil-pressure hydraulic press: 250 tons; Pho 250/800; for first and second drawing of 57 - 85 mm cartridges. Product of Poland.

5) Vertical oil-pressure hydraulic press: 250 tons; Pho 250/1,200; for third and fourth drawing of 57-85 mm cartridges and 85 mm KC, 18-152 mm; to be made in Poland, in 1957.

6) Vertical oil-pressure hydraulic press: 200 tons; Pho 200/2,500; for fourth and fifth drawing of 57 - 85 mm cartridges and 85 mm KC. 18-152mm and for sealing them. Product of Poland.

7) Vertical "klikovy" press: 800 tons; length of stroke 650 mm; for cup-drawing (kaliskovani) and first drawing of 85 KC, 85-152 mm; product of the USSR.

8) Vertical oil-pressure hydraulic press: 350 tons, Pho 350/800; for second drawing (tazeni) of 85 mm KCs, 85-152 mm; product of Poland.

9) Horizontal oil-pressure hydraulic press: 315 tons; length of stroke 2,600 mm, CTQ-315; for fifth drawing of 85 mm KC, 18-152 mm; product of CSR.

10) Vertical "kolenovy" press: 4,000 tons; PKnP-4,000/1,400; for final pressing of base of cartridges - 85 mm KC, 18-152 mm; product of Germany.

11) Six-spindle? (sestivretenovy ?)semi-automatic machine: for cutting and trimming 37 mm cartridges. Product of the USSR.

12) Milling cutter for thread cutting: diameter 150 mm and 250 mm; make HELLER; for cutting threads in the neck of 57-85 mm cartrdiges and 85 KC; 18-152 mm (800 in one shift).

III Machines for producing the cases for field gun shells and grenades.

1) Electric furnace: for 27 mm armour-piercing shells. Product of CSR.

2) Electric furnace: with air circulation (s cirkulaci vzduchu) for 37 mm armour-piercing shells. Product of CSR.

3) "Klikovy" press: for 37mm armour-piercing shells. Product of CSR.

4) Press: HERTEX CMH 150-1 type, for 37-57 mm armour-piercing shells, Product of CSR.

5) Eccentric press: for 37 mm armour-piercing shells. Product of CSR.

6) Horizontal hydraulic press: CRL-360, for 85-150mm percussion shell with with high explosive blasting effect.(s tristive trhavymi ucinky) Product of CSR.

7) Electric furnace:for 85-152 mm percussion shells, high-explosive blasting effect. Product of the USSR.

8) Combined hydraulic press: CKO 400/2 x 150; for 85-100 mm percussion shells with H/E blasting effect. Product of the USSR.

9) Cooling chamber for 85-100 percussion grenades with HE blasting effect. Product of the USSR.

10) "Klikovy" press: PELZ for 85-100 mm percussion grenades with HE blasting effect. Product of Germany.

11) Combined hydraulic press: triple-action, OKA 630/2x200; for 122-152mm percussion shells, with HE blasting effect. Product of CSR.

12) Cooling chamber for same (shells) Product of the USSR.

13) Mechanical "klikovy"press PELZ, for 122-152mm percussion shell with HE blasting effect. Product of the USSR.

14) Cooling chamber for cup-drawing (kaliskovani) for 122-152 mm percussion shells with HE blasting effect. Product of the USSR.

15) Six-spindle? (sestivretenovy) automatic machine:1261 for 37mm HE shell. Product of the USSR.

16) Six-spindle automatic machine: 1261, for 37mm HE shell.Product of USSR.

17) Four-spindle automatic machine: 1240, for 37mm HE shell. Product of USSR.

18) Five-spindle automatic machine: AKN 135; for 37mm HE shell. Product of CSR.

19) Special knurling machine:('vroubovacka'): B 100; for 37mm HE shell.Product of Hungary.

20) Hydraulic semi-automatic saw:for 57mm armour-piercing shell, for cutting semi-finished product. Product of Poland.

21) Special semi-automatic lathe: 1722 C; for 85-122 mm percussion shell with

HE effect. Product of the USSR.

22) Special semi-automatic lathe: 1722 C: for 85-100 mm percussion shell with HE effect. Product of Hungary.

23) Special semi-automatic lathe: NE 100; for 85-100 mm percussion shell with HE effect. Product of Hungary.

24) Special lathe: 85-100 mm; for percussion shells with HE effect. Product of Hungary.

25) Semi-automatic lathe: for finishing the machining of surfaces; product of Hungary.

26) Semi-automatic lathe: for finishing the machining of surfaces; product of Poland.

27) Automatic device for thread cutting: 123; for 85-152 mm percussion shells with HE blasting effect. Product of CSR.

28) Screw-cutter: for 85-152 mm percussion shell with HE blasting effect; product of the USSR.

29) Operational ? (operacni) lathe: for 85-100mm percussion shell with HE blasting effect. Product of Poland.

30) Special semi-automatic lathe: ESP 500; for 85-152mm percussion shell with HE blasting effect. Product of Hungary.

31) Special semi-automatic lathe: SPE ? ESP ? ; for 122-152mm percussion shell with HE blasting effect. Product of CSR.

32) Special semi-automatic lathe: NE 150; for 122-152mm percussion shell with HE blasting effect. Product of Hungary.

33) Semi-automatic lathe: Sz 519; for 122-152mm percussion shell with HE blasting effect. Product of Hungary.

34) Turret lathe: 1365; for 122-152mm percussion shell with HE blasting effec For machining neck (hrdlo). Production of the USSR.

35) Semi-automatic lathe:SE 150; for 122-152mm percussion shell with HE blasting effect, for finishing the machin/ing of the surface.Product of Hungary.

36) Operational (operacni)lathe: 2 TBU; for 122-152 mm percussion shell with HE blasting effect. Product of Poland.

37) Special knurling machine: P 150; for 122-152mm percussion shell with HE blasting effect. Product of Hungary.

Machines for final and checking operations on 37-152mm shells.

38) Semi-automatic checking apparatus: for outer surface. Product of CSR.

39) Defektoskop:(Defectoscope?): UFAN; for investigation of defects (? defektoskopovani) Product of the USSR.

40) Defektoskop (see above No.39): INKAR; for investigation of defects ? Product of CSR.

41) Semi-automatic marking machine: ZSK 3 M. Product of CSR.

42) Semi-automatic machine: BRINELL ZBRIM: for testing hardness. Product of CSR.

43) Milling cutter: FN 2; for milling linings for Brinell hardness processing product of CSR.