

CLASSIFICATION SECRET/CONTROL - U.S. OFFICIALS ONLY

25X1

CENTRAL INTELLIGENCE AGENCY SECURITY INFORMATION

REPORT

INFORMATION REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 27 May 1953

SUBJECT Research Development and Production at VEB Carl Zeiss, Jena

NO. OF PAGES 2

PLACE ACQUIRED

NO. OF ENCLS. 25X1

DATE OF INFO.

SUPPLEMENT TO REPORT NO. 25X1

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT OF U.S.C. 51 AND 22, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

25X1

1. The following is a compilation of the research and development program assigned by the East German government to VEB Carl Zeiss, Jena:
 - a. Development and construction of a 2 m. mirror telescope
 - b. Development and construction of electron microscopes
 - c. Development of synthetic gems
 - d. Development of oscillator crystals (Schwingquarze)
 - e. Development of emery grain-size separation by sedimentation
 - f. Improvement of polishing rouge, dressing and sorting
 - g. Quartz synthesis: one project for optical use and two projects for ultrasonic equipment
 - h. Production of various salts for optical use, i.e. infrared optics
 - i. Development of a production process for molding lenses and prisms to final dimensions so that only polishing is required
 - j. Development of diamond-impregnated optical tools and saws (sinter process)
 - k. Development of a process for deposition by evaporation of a protective layer, e.g. quartz on silver and aluminum for astro and mirror telescopes
 - l. Development of a technique for measurement of film-layer thickness during evaporation
 - m. Development of special machinery for non-spherical grinding of compound lenses
 - n. Development of ball lathes and similar machines
 - o. Firebrick pans

CLASSIFICATION SECRET/CONTROL - U. S. OFFICIALS ONLY

STATE	<input checked="" type="checkbox"/>	NAVY	<input checked="" type="checkbox"/>	NSRB		DISTRIBUTION				
ARMY	<input checked="" type="checkbox"/>	AIR	<input checked="" type="checkbox"/>	FBI						

25X1

25 YEAR RE-REVIEW

12-118105

682

SECRET/CONTROL

25X1

- 2 -

- p. Special burning kilns for the production of optical polishing rouge
2. Zeiss military production for East Germany is as follows:
- a. Aiming circles (approximately 2000 are now ordered; these have a 6000 mil circle)
 - b. Infantry range finders in V form (scissor) (200 are now ordered)
 - c. AA range finder, 3-4 mil base, similar to Disos 4 mil (under development but no production)
 - d. Coast artillery range finder, 6-10 mil base (under development)
3. Research for the improvement of apparatus already in production forms another portion of the research activities at Zeiss.
4. Research to develop new equipment for commercial sale on the following items is in progress:
- a. Special measuring devices to be used in the production and inspection of all kinds of sprockets and wormgears
 - b. Photogrammetric apparatus; development of (all) instruments for surveying from the air and from mountain peaks
 - c. Ophthalmological apparatus
 - d. Microfilm apparatus and microfilm reading equipment
 - e. Projectors

Russian influence, as far as the above research and development missions are concerned, is not apparent, although it is known that all work has to be approved by the SCC in advance and that all current work-reports are being translated into Russian and transmitted to the SCC.

5. The following are special Russian orders intended for production at Zeiss:
- a. Schlieren devices (3 or 4) to determine aerodynamic drag of different aircraft structural parts in wind tunnels
 - b. L-1 devices (200) to demonstrate the function of radar for anti-aircraft and flying schools
 - c. A-1-p devices for training of fighter pilots in aerial gunnery. Two hundred were built in 1950; 80 in 1951; 0 in 1952; and 35 are planned for 1953. 1/
6. It is believed that the type of Russian special orders and all research missions show that the Russians do not place important development projects with any East German plant and especially not with Zeiss, a plant which is considered politically unreliable (less than 5% of the personnel are Communist sympathizers). The East German plants merely execute normal production orders and perform improvements of the production processes for the Russians. Truly important new developments are being worked out, partially by retained German experts somewhere between the Ural Mountains and Lake Baikal, in research institutes and plants which have been constructed there. 2/

Comments:

25X1

1/ Comment: production of A-1-p is being discontinued and that a new device, designated A-2, should replace it.

25X1

2/ Comment: Karl Mueller of Jena works at one of these plants as a Russian citizen, although practically a prisoner.

25X1

SECRET/CONTROL