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office Berlin-Neukoelln, 35 Oderstrasse, tol 624 686.

was complete description of the L-1 set secured rate in october 1949 was comprised of 90 pages in Mussian. The translation made in the translation bureau was returned from Weimar with corrections of the Soviet commission and had to be rewritten. The number of copies were made, one being sent flong ith each L-1 set. There were also folders with diagrams and sketches. The L-1 sets were about one cubic meter in size. The new orders showed minor modifications of the original design.

5. Annex 1:

Copy of a letter in Russian written From the Berlin office of Dr. Hilgers to the Soviet Engineering Eureau to 16 in Karlshorst. The subject of this letter is <u>Proposal for the Project of an Experimental Trailing Set A-2</u>. This set, which in Russian is designated "Treneyoer", is for the training of pilots and has the same functions as the A-1 set, that is:

- a. Training in taking off and landing
- b. Training in the control of the flying aircraft
- c. ramiliarization with the aircraft instruments
- d. Flying by maps

The individual parts of the set are enumerated and described.

6. Annex 2:

Copy of a letter dated 29 November 1949 and written by Maj Smerkalov to the management of the Zeiss Fira, dealing with modifications of the A-1 set.

7. Annex 3:

- E. Copy of the translation of the protocol of a conference held on 30 hovember 1949 in Jena. The topic of this conference was Modifications of the A-1 set (exchange of the projector by a pancratic set).
- b. The conference was attended by Rajors Smerkelov and satmirov of the "NTB 16", Dr. Hilgers and seven representatives of the Zeiss Firm.

E. Annex 42

- a. Copy of a letter dated 1 December 1949 and written by the Zeiss firm to the chief of the Export Department of the Foreign Trode Agency of the SCC (Soviet Control Commission) in Berlin-Karlshorst, 1 Schtuelingenstrasse.
- b. The subject of the letter is an order for the A-1 set. It is a supject to the proposal of 7 November 1949.
- c. May Schreiber was the chief of the planning department. Eng Wolfram was the chief designer of the new sets. Both names were written it the lower right corner.

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9. Annex 5:

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TELLIN OF DESIGNATION

- a. Original copies of the descriptions of the design and the functioning of the A-1 k and A-1 p sets.
- b. The description of the set with the attached drawings were translated in the translation bureau of the firm in October and Movember 1949. Just as in the case of the 1-1 set one copy each of this description, was to go along with each individual set.
- c. The description, which could be secured in part, was also to serve the training of the Soviet commission in Jena.
- d. Following is a short survey of the attached material:

Pages 50 through 42: Calculation and consideration of the movements of the fighter with and without bank. Influence of the neight and course of the aircraft on the working of the set.

Fages 49 and 50: Allowances to be made for the own speed of the fighter and the target speed.

pages 57 through 61: Tecasnism of the projector of the Al k set

pages 70 through 72: The kinematics

pages El through 83: The sighting and approach of the target

page E4: The sight and control set

pages 85 through 87: The determination of distances.

pages 91 and 92: Measuring equipment

pages 93 through 97: The kinematics of the A-1 k and A-1 p sets.

10. Description of the A-1 set:

The set was four meters long and was an all-metal design. In the front section was an instrument board in front of which the student was seated. The trainer had his seat behind the student. Individual parts of the set were also manufactured in other Thuringian and Saxon plants. However, they were assembled only at the Deiss Firm which also manufactured most of the precision and optical equipment.

- 11. The prototypes of the half k and half p sets were scheduled to be completed by 15 hovember 1949. This date had to be changed to 25 December 1949 because of difficulties experienced in the procurement of the required material. After the testing of the prototype sets quantity production was begun. An initial order for 200 sets had been placed to begin with.
- 12. The A-1 set had been partially designed in Dr. Hilger's impineering Bureau. Possibly the L-1 s t had also been developed there. Some of the employees of the Junkers firm believed that the L-1 and A-1 sets were former German Air Force designs which had not been furly developed. In hilgers, who was believed to have been an air force engineer, had, altegody, further developed this set and then offered it to the Soviets.
- 13. The A-1 set was designed for the training of pilot students. It trained the student in approaching a second aircraft by means of a reflector signt. The complete set and the following four parts:

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- 1. Projector
- 2. Projector screen
- 3. Cockpit
- 4. Trainer's desk.

25X1A Comment:

Report supplements information on the 1-1 and 4-1 training setsytomaly mitted. * From the attached Annexes it can be inferred that the prototypes produced so far do not represent definite solutions; that further proposals for modifications of the original design are being made and that the Soviets, in movember 1949, were offered another 4-2 training set. This set is a slightly modified Link-Trainer and seems to be designed for preparatory training in instrument and blind flying.

6 Annexes:

- 1. Letter: "Proposal for the Project of an Experiment: 1 training Set :=2".
- 2. Letter written by Maj Smerkelov to the Zeiss Management Concorning Jodifications of the $\lambda{-}1$ Set.
- 3. Protocol on the Proceedings of a Conference held in Jens.
- 4. Letter of the Zeiss Firm Concerning an Order for the A-1 Set.
- 5. Description of the A-1 and A-1 p Sets.
- 6. Das Pankratische Umlehrsystem.

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