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## APPENDIX C

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C O P Y

~~TOP SECRET~~TICOM/I-104Report on Berlin Targets by Major Heller  
of G.S.I(S), 21.A.G. B.O.A.R.TICOM, 17 September 1945TICOM Investigation of Berlin Technical Targets1. Targets visited:

- (a) Heimsoeth and Rinke, Chiffriermaschinen Gesellschaft
- (b) Siemens, Werner Werke
- (c) AEG
- (d) Lorentz
- (e) Telefunken

Remaining targets were located in the Russian Zone of Berlin.

2. General. All targets had been previously visited by Russian Intelligence and technical experts who had removed virtually all documents and subsequently removed all machinery, plant and equipment. Despite this fact it was possible to collect a certain amount of information and equipment.

3. Heimsoeth and Rinke. Chiffriermaschinen Gesellschaft. This firm mentioned in PROC 5802 as being located in the Steglitzerstrasse 2 was finally located at Uhlandstrasse 138, Wilmersdorf.

All other addresses which have from time to time been mentioned in connection with the manufacture of Enigma machines were previous locations of the above firm who are the sole manufacturers of Enigma machines for all Germany.

Personalities: Ob. Ing. Korn (Absent on 'holiday').  
Ing. Schroeder  
Ing. Schiele

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## 3. (continued)

Items removed:

a. Zaehlwerkmaschine type CA 15. This machine is a four-wheel model having a gear drive and employing eccentric teeth for wheel progression. It was sold to the Dutch for military use. Subsequent to declaration of war, two machines were delivered to OKW at Stahnsdorf.

b. Lueckenfuellerwalze (drawings and prototype model). This type of wheel was a new design carried out at the request of OKW and intended to replace the existing type throughout the German Armed Forces. It was in fact approved but had not reached production stage at cessation of hostilities. It differs essentially from current type of wheels in use, in that the fixed tooth or teeth which cause the progression of neighbouring wheels, is replaced by 26 variable teeth whose setting can be altered daily. This change in design results in a basic alteration of tyre-setting and wheel body, although in practice only the progression is affected. The prototype obtained is designed for army use and is fitted with a 'neutral' wheel body.

c. Umkehrwalze D. One complete army fitting was obtained. This differs only in external measurements from the naval version. The history of Umkehrwalzen is a little odd. Type was requested by OKW and duly delivered but for unknown reasons, was withdrawn from service almost immediately. Orders were then given to design a new type having improved security characteristics. Type D was the result. This was approved and put into production, but never reached full distribution. It was withdrawn, no reasons being given, and production of type B was recommenced.

Other material located at the factory in Russian territory (Chausseestrasse 117, Stettiner BHF.).

a. Strip printer adaptor for German Service model. This adaptor fitted over the lamp sockets and consisted of a straightforward teleprinter which was actuated via relays by the current which would normally light the bulbs.

b. Page printer Naval model. Based on the Springschreiber, this model consisted of a straightforward naval type Enigma which was operated electro-magnetically, the enciphered or clear text being printed directly on to a paper page. Only a limited number of these machines were delivered to the navy.

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## 3. (continued)

c. Numerous commercial 4-wheel models. These are standard commercial models.

d. Russian investigation. Both factory and offices were visited by Capt. Polin and Lt. Medwedjew. Both officers appeared to be fully conversant with the Army model and demonstrated obvious familiarity with the mechanics of the Army model. Ing. Schroeder gained the impression that both were cryptographers. These officers removed a complete set of drawings for the Lueckenfuellerwalze and a Naval type Enigma machine which they stated they had never before encountered. They did not enquire regarding the Umkehrwalzen nor did they obtain a complete model of the Lueckenfuellerwalze.

General

The offices contain large number of files relating to commercial sale of Enigma machines and current production correspondence. Schiele stated that all SECRET files had been burnt before the Russians entered the town. The files were not examined in detail.

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