

6-124-27/2

DISPATCH		CLASSIFICATION SECRET	DISPATCH SYMBOL BUCA 61- 1456
TO :	COB, Salzburg (ATTN: OPERATIONS Case Officer) Chief, KUCLER; Chief of Station, Vienna; Chief, ED; Chief, NAHCA		RECLASSIFIED BY
FROM :	Chief, BUCA <i>200</i>		DATE 31 OCTOBER 1951
SUBJECT :	Operational/Training GRAVIMETRY-4 Communications Training Report		REASON FOR RECLASSIFICATION EXEMPT FROM AUTOMATIC DECLASSIFICATION EXEMPTION CODE 25X(1)
ACTION APPROVED			EXEMPTION CAN BE DECLASSIFIED BY QUALIFIED HQ DESK ONLY
REFERENCES			

1. Approximately fifty (50) hours of W/T communications refresher training were given GRAVIMETRY-4 during the period 4-9 September 1951. Training on 4, 5, and the morning of 6 September was conducted in a safehouse apartment in Vienna. On 6 September the training site was moved to the vicinity of Leogring, 40 miles south of Munich. Here the balance of the training was given in the form of a field-trip communications exercise from a campsite in the Bavarian Alps.

2. GRAVIMETRY-4's last supervised training was given in August of 1950. Since then, a replacement cache--containing new activation instructions, a BYCINK/U type signal plan with associated crystals, ZIBALT/11 primary cryptographic system instructional document and "K" type encipher and decipher pads for use therewith, and a KOURIN/11 emergency cryptographic system instructional document--has been issued to the project Case Officer for caching for GRAVIMETRY-4. These items are to replace respective items in his present cache. Furthermore, these new systems were used throughout the training period. Further, GRAVIMETRY-4 was reviewed in the following operational systems and equipment: the LUTIX UTFF Indicator System, the 50-2 Calling Clock, the ZIGARE Frequency Change System, the EDACEL Extra Schedule System, the NEDON Broadcast Procedure, the TWT (General Radio Operating Procedure and Instructions), and the RS-1 and 1-2 radio sets.

3. To be compatible with the new ZIBALT cryptographic system, it was necessary to change GRAVIMETRY-4's cryptogram parity check for use with his primary system. Accordingly, he was advised that, concurrent with his assignment to the literal cryptographic system, the letter "H" would replace "A" as digit 1 on his confirmation character. The letter "W" was also to replace the digit 1 for Base Station use when acknowledging the Agency's controlled signal. He was further advised of the necessity for a change in his emergency cryptographic system keyword as such time as he is changed over to a literal system. His new keyword, GRAVIMETRY-4 selected the word combination "SONNTAG" to replace his present keyword "SONNTAG". A further change made during this training session was the cancellation of the external radio "freedom zone control" signal which had been assigned to him. These changes were followed throughout the training period to aid in memorization. Corrections reflecting same will be forwarded to all COB holders.

4. LUTIX, a BYCINK/U type training signal plan, was used throughout the training period. The broadcast page used employed daily broadcast instructions. The broadcast portion of the plan was activated on the first day of training with the broadcast of a message containing the external time-frequency and call sign, and associated data. This message, when deciphered, provided the Agency with the information needed to put the two-way control into operation. A number of copies in copy, GRAVIMETRY-4 required some assistance in deciphering this message when interpreting its contents. Six messages, totaling 267 groups, were broadcast to the Agent during the six days of training. Except for one late training message sent when the Base station was not ready, these messages were copied by the Agent, but errors in copy resulted in many garbles, making decipherment a difficult and time consuming process.

5. The first day of the training period was devoted to a review of the new systems to be issued to GRAVIMETRY-4, most of which had been covered in previous training, plus a review of his other operational systems and equipment and an

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		SECRET	

- Page Two -

assessment of his present code speeds. On 5 and 6 September, a total of eight (8) two-way contacts were attempted with the LIMBER Base Station from the Jewish market house site. Principally because of the adverse location, a small apartment situated in a high-noise level section in the midst of the business district, and also because of an electrical storm in progress during two of the schedules, only one contact was successful. At this time 20 groups were passed to the Base station. An additional twenty-one (21) contacts were attempted from the campsite location during the field training phase. Twenty of these were successful and twenty messages, totaling 390 groups, were passed from the Agent to the Base. An additional 285 groups were received from the Base on seventeen of the contacts.

6. Overall evaluation: FAIR. GRAVIMETRY-4 requires considerable practice in both sending and receiving. His receiving speed has dropped to the point where he is unsure of himself; therefore, he lacks the confidence which is needed to go ahead and make two-way contacts unassisted. His sending, though lacking in evenness and rhythm, is fairly readable if he does not attempt to send too fast; however, he unconsciously increases his speed as he goes along, with a resultant deterioration in his sending and an increase in the number of errors made. GRAVIMETRY-4's physical handicap, an artificial limb in place of the left arm, and rather poor eyesight, does hinder him considerably during field operations where operating conditions lack the convenience and advantage one finds in operating from a well-illuminated table. His knowledge of equipment and procedures is good. GRAVIMETRY-4 needs additional training before he can be considered competent to operate a two-way radio circuit. Increased proficiency in both receiving and sending code, which could be obtained through diligent self-training, would go a long way towards instilling in him the confidence which he requires.

Present code speed - Receiving - 10 LGPM
with 4 to 5 per cent error
Sending - 10 LGPM.

FOR THE CHIEF, EUCA

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