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WDGSS-22 (22 May 1946)

3d Ind

Hq, Army Security Agency, Washington 25, D. C., 4 June 1946

TO: Chief, Security Division

1. Based on the information that this agency will probably have to suffer reductions due to budget allowances, the Security Division has been authorized a total of \$635,000 to pay civilian employees for Fiscal Year 1947. If the 14% pay increase for civilian employees has to be absorbed by this agency, the monetary allowance for Security Division will then be \$632,600.

2. The Chief, Security Division, may make his own recommendations as to what jobs will be allocated, subject to the above monetary allowance.



GEORGE A. BICHER
Colonel, Signal Corps
Deputy Chief, Army Security Agency



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WDGSS-80 (22 May 1946) 2d Ind

Hq, Army Security Agency, Washington 25, D. C., 29 May 1946

TO: Deputy Chief, Army Security Agency

1. The presentation in the basic communication of the special work load in the Maintenance Branch of the Security Division was made a special item of discussion because of its much greater urgency than that of other personnel problems in the Security Division. There are, however, numerous other shortages of personnel affecting our program which now become much more significant in view of the reduction in staff being imposed on the Agency by budget considerations.

2. It is requested therefore that the special increase of fifty personnel granted in the 1st Indorsement be spread over various functions in the Security Division in accordance with their priorities, rather than assign the entire increase to the Maintenance Branch. This will confirm the corresponding approval already granted verbally by the Deputy Chief.

A. Sinkov

1 Incl
n/c

A. SINKOV
Colonel, Signal Corps
Chief, Security Division

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WDGSS-22 (22 May 1946)

1st Ind.

Hq, Army Security Agency, Washington 25, D. C., 24 May 1946

THRU: Personnel and Training Branch *gll*

TO: Chief, Security Division

1. The SOP for preparation of cipher machines for extended storage is approved.

2. Tentatively, the Army Security Agency is to be authorized a total of 2259 civilians without the 14% pay increase, or 1900 civilians if the 14% pay increase is approved. The Security Division was to be allocated 248 and 191 respectively. Fifty additional civilian vacancies are authorized as repairmen which revises the above figures to 298 and 241 respectively. This confirms previous information given a representative of your Division by Lt. Colonel Walker.

3. To augment this civilian increase, on or about 1 September 1946 the course for cryptographic repairmen at Vint Hill will be revised to include four weeks of on-the-job training in the Maintenance Branch. This will serve not only to give the men valuable training but help reduce the work load in the Maintenance Branch.

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GEORGE A. BICHER
Colonel, Signal Corps
Deputy Chief, Army Security Agency

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WDOSB-85

4 December 1945

SUBJECT: Preparation of Cipher Machines for Extended Storage**TO:** Chief, Security Division

1. In order to preserve cipher machines while in extended storage, it is recommended that the following method be used:

a. Cover all unplated metal parts with a light coat of rust preventive.

b. Insert within each machine a sufficient amount of Silica Gel to absorb any moisture that might be prevalent during the storage period.

c. Seal each machine within a Water Vapor Barrier envelope to exclude moisture, dust, or vapor from the outside.

d. After completion of the steps outlined in subparagraphs a, b, and c above, place each piece of equipment, except SIGMIM, in its original packing case and strap with metal bands. It will be necessary to place SIGMIM in a wooden packing case after preparation to protect the envelope.

2. It has been determined that this method would be the most economical and simplest to accomplish. It was not possible at this time to arrive at any definite or guaranteed method of certain preservation. Research along this line indicated that the proposed method of packing was developed during the war years. Equipment packed in this manner has not been stored for a period long enough to state definitely whether or not the method is entirely satisfactory over an extended period of time.

3. In arriving at this proposed method, discussions were held with the Quartermaster Corps, the Signal Corps, the Ordnance Department, and the Navy Department. The suggestions of the Quartermaster Corps, the Signal Corps, and the Ordnance Department were all noted and discussed with representatives of the Navy Department. The Quartermaster suggestions were not applicable; the Ordnance specifications for packing called for heavy smearing of metal parts with rust preventive compound. This

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WDGES-86 (4 December 1945)

method was discarded owing to the necessity for complete disassembly and cleaning of the equipment whenever it would be taken out of storage and placed in operation again. The Signal Corps suggestions were similar to the method outlined in paragraph 1 with the additional operation of placing the prepared equipment in a metal container and sealing it. The sealed metal container proved highly successful in preserving equipment which was shipped throughout the world during the war; however, the use of a sealed metal container was not considered essential. It would be an expensive procedure both from the standpoint of material required and man hours necessary to accomplish the packing and sealing in such a container. In addition, the space contemplated for extended storage use is dry and temperature controlled; thus, the necessity for a sealed metal container to keep out external moisture is eliminated. It was therefore decided that the method outlined in paragraph 1 is the most feasible to be adopted by the Army and the Navy.

4. It is proposed to prepare SIGABA, SIGCUM, SIGNIN, SIGFOY, SIGIVI, and associated equipment such as rotors and spare parts kits in this manner. For the most part, the only expenditure of funds required will be for the Water Vapor Barrier envelopes and Neoprene Gaskets for packing. It is proposed to use petrolatum as a rust preventive, and it is estimated that a sufficient quantity is now on hand to complete this packing project. Silica Gel and metal strapping are available in sufficient quantities at Signal Corps Depots and can be delivered immediately upon requisition. The necessary equipment for air exhaustion and sealing of the Water Vapor Barrier envelopes is presently available in Maintenance Branch.

5. Listed below are the quoted prices of Water Vapor Barrier envelopes for each item:

SIGNIN	\$1.80 (additional cost of \$2.00 estimated for this item for wooden case)
SIGABA	\$1.75
SIGCUM	\$1.75
SIGFOY	\$.30
SIGIVI	\$.30
Spare Parts Kits	\$.30

Neoprene Gaskets, four of which will be required for each SIGABA, SIGCUM, and SIGNIN, are estimated to cost \$6.00 a thousand. Originally it was intended that Cork Gaskets would be used, but they did not successfully seal under test.

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6. It is not considered necessary to prepare blank unwired rotors for extended storage, since it is highly improbable that corrosion will set in during their unwired state. However, after wiring, a chemical reaction caused by the flux used in soldering and the acetate coating of the wire may set in and cause corrosion. To prevent this, it is recommended that each wired rotor be encased in a Pliofilm envelope and sealed prior to its being placed in its container. These Pliofilm envelopes can be purchased at a quoted price of \$17.08 a thousand. The equipment necessary for sealing is presently available in Maintenance Branch.

7. It is estimated that two man hours for each unit of equipment will be required to prepare this equipment for storage. It is pointed out that this will further increase the work load of Maintenance Branch which was submitted as of 27 November 1945.

8. In view of the foregoing, it is requested that:

- a. Approval be granted to prepare equipment for extended storage as outlined in paragraph 5.
- b. Maintenance Branch be advised of the quantities of each type of equipment it is desired to store in this manner.
- c. Authorization be granted for the expenditure of funds for the procurement of necessary materials.



GEORGE L. SAMPSON
Major, Signal Corps
Chief, Maintenance Branch