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AS-20-A 201371

War Reserve Stock

Chief Signal Officer
 Department of the Army
 ATTN: Operations and Planning Section
 Army Communic. Service Division

Director of Intelligence

12 Dec 1947

Maj Whitehead/8129 Ext 216

1. The Army Security Agency is placing in war reserve stock the quantities of cryptographic devices indicated below:

SIGABA	2,000	
SIGIVI	4,000	
SIGAMUG	175	→ 1000
SIGCUM	1,250	} ASAM 2-1
SIGHUAD	500	
SIGNEN	150	

Plans have been made for the reconditioning of these machines and their packaging in vapor proof metal barriers for long term storage.

2. A 131B2 S/S, as well as various other teletype equipments, is required for each cryptographic installation utilizing either SIGCUM or SIGHUAD. No provision for the storage of SIGTOT (131B2 S/S and 14AB Transmitter Distributor) has been made, since these equipments are controlled by the Chief Signal Officer.

3. Information is requested as to the present availability of 131B2 S/S in Class A condition and plans of the Chief Signal Officer concerning the long time storage of this equipment for use with SIGCUM and SIGHUAD.

FOR THE DIRECTOR OF INTELLIGENCE:

HAROLD G. HAYES
 Colonel, Signal Corps
 Chief, Army Security Agency

DEC 12 1947

SIGNED AND SENT OUT

SUSPENSE COPY

~~SECRET~~*not filed**12 Dec 47*

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CSGAS-51

11 Dec 47

SUBJECT: War Reserve Stocks

TO: Chief Signal Officer
The Pentagon
Washington 25, D. C.
ATTENTION: Operations and Planning Section
Army Communications Service Division

1. Authority has been granted this agency to place in war reserve the quantities of cryptographic devices indicated below:

SIGABA	2000
SIGIVI	4000
SIGAMGG	175
SIGCUM	1250
SIGHUAD	500
SIGMIN	150

Plans have been made for the reconditioning of these machines and their packaging in vapor-proof metal barriers for long-time storage.

2. A 131B2 3/1, as well as various other teletype equipments, is required for each cryptographic installation utilizing either SIGCUM or SIGHUAD. No provision for the storage of SIGTOT (131B2 3/3 and 14AB Transmitter Distributor) has been made, since these equipments are controlled by the Chief Signal Officer.

3. Information is requested as to the present availability of 131B2 3/3 in Class A condition and plans of the Chief Signal Officer concerning the long-time storage of this equipment for use with SIGCUM and SIGHUAD.

FOR THE CHIEF, ARMY SECURITY AGENCY:

HARILL D. JONES
Major, Signal Corps
Executive Officer

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11 Dec 47

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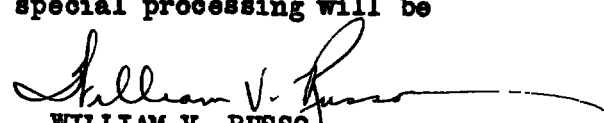
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**INTEROFFICE ROUTING
AND/OR CARRIER SHEET HQ A**

MUST REMAIN WITH ATTACHED PAPERS

NUMBER EACH MEMO OR REPLY IN LEFT BORDER, PLACE NAME, RANK AND
TELEPHONE NUMBER BOTTOM OF EACH ACTION DRAW LINE UNDER EACH ACTION

ENTER FILE CLASSIFICATION ADJUTANT _____

TO	FROM	DATE	SUBJECT
1. AS-82	AS-81	4 Dec 47	<p align="center">Storage Program for Rotors and Documents</p> <p>1. It is requested that Technical Staff be furnished information in regard to your plans for long-time storage of rotors, SIGAMUG, SIGIVI, and documents.</p> <p>2. CSGAS-85 is engaged in the rehabilitation of 2,000 SIGABA, 1,250 SIGCUM, 500 SIGHUAD, and 150 SIGMIN. These items will be packed in moisture-proof barriers in such a manner as to be available for use at any time in the future. A companion program concerning associated equipment controlled by your Branch is necessary.</p> <p align="right">  WILLIAM BRANN Chief, Technical Staff Security Division Extension 388 </p>
AS-81	AS-82	5 Dec 47	<p>1. No provision is being made for long time storage of SIGAMUG inasmuch as there are none available for storage and no additional procurement is contemplated. 2000 SIGIVI will be processed by CSGAS-85 and turned over to CSGAS-82 for storage.</p> <p>2. No plans are being made by this Branch for long time storage of documents such as keylists, operating and maintenance instructions, etc. Such decision is based on the impossibility of incorporating constant changes in such documents while packed and stored. Furthermore, rapid production of such material in an emergency would not entail any great difficulty.</p> <p>3. Plans are underway for long time storage of a large supply of SIGABA and SIGCUM rotors. There are at present, rotors on order in quantities sufficient for use with world wide, theater, and special systems which may be needed in the event of an emergency. Of the 3,190 sets of rotors on order, 2,060 sets have been completed. When completed, these rotors will be packed in wooden boxes and no special processing will be necessary for their long time storage.</p> <p align="right">  WILLIAM V. RUSSO Chief, Materiel Branch Security Division Extension 492 </p>

file 47

#/10

1. AS-85 AS-80 14 Nov 47
AS-82

Packaging and Accounting
for Reserve Cryptographic Devices

1. Authorization has been received to package the following devices for long-term storage:

2000 SIGABA, w/SIGIVI
1000 SIGCUM
250 SIGHUAD
150 SIGMIN

2. The packaging and accounting procedure as set forth below has been approved by the Director of Intelligence and will be followed in conducting this long-term storage program.

3. The items to be stored will be reconditioned and cleaned and placed in the carrying case or safe provided for the equipment. A lubrication notice will be attached to the device in such a way that it will not be overlooked at the time the device is unpacked. Two designated officers will supervise the packaging and be responsible for the correctness of the information stencilled on the metal barrier and the shipping box. At the time the carrying case or safe is closed over the device, each of the certifying officers will transcribe the register number from the nameplate to a separate copy of Form CSGAS 1506, 9 October 1947 (Inclosure 1). These separate transcriptions will then be compared for accuracy and, if correct, the device will be sealed in the metal barrier. After the cover has been soldered on the metal barrier, the short title(s), register number(s) and "check this number with nameplate on machine" will be stencilled thereon, the data checked by each officer and the barrier placed inside the shipping box. After the cover of the shipping box has been put in place and fastened, the short title(s), register number(s), fragile and upright indication will be stencilled on the box and each officer will complete his copy of Form CSGAS 1506 by affixing his signature and the date thereto. The two certificates for each package will then be filed in the records of CSGAS-82 until such time as the form mentioned in paragraph 7 is received from an accountable officer who has unpacked the equipment for use. At that time, both forms representing the same item(s) of equipment may be destroyed and the regular procedures of accounting placed into effect.

zhc

4. Where Marked. The short title(s) and register number(s) will be stencilled near the center of the metal barrier cover. The phrase "check this number with nameplate on machine" will be stencilled directly below the short title(s) and register number(s).

see me
W. J. ...

5. Shipping Box. The short title(s) and register number(s) will be stencilled near the lower left corner on one side of the shipping box. "Fragile" will be stencilled diagonally across the sides and ends in such a position as not to interfere with the short title and register markings. Upright position will be indicated

1. AS-85 AS-80 14 Nov 47
AS-82

Packaging and Accounting
for Reserve Cryptographic Devices (contd)

by arrows on both sides with the arrow heads pointing toward the top and "this side up" stencilled immediately above the arrow heads.

6. Accounting. On transfer of the packaged units from one custodian to another, the consolidated transfer report will list the units as "Packaged SIGABA, register numbers 1, 2, 3, 4, etc.," as may be applicable.

7. Prior to shipment of the device to a user, a form substantially as shown on Inclosure 2 will be securely fastened in the recessed portion at one end of the shipping box in a waxed envelope. This form will have the correct return address typed or stamped in at that time. The waxed envelope will be marked "Open First."

8. In view of the existing officer shortage, the officers required for certification should be present only when actually necessary. These officers will be made available by AS-26 upon request from AS-80.

a. At least one of the two certifying officers will be from sources other than AS-82 or AS-85.

b. One of the two certifying officers will be Regular Army.

2 Incls

- 1. Form CGAS 1506,
9 Oct 47 (~~in trip~~)
- 2. Sample return form
(~~in trip~~)

H. L. CLARK
Acting Chief, Security Division
Extension 241

~~RESTRICTED~~

N O T I C E

CHECK THE REGISTER NUMBER OF THIS MACHINE IMMEDIATELY AGAINST
THAT SHOWN ON THE COVER OF THE METAL BARRIER.

ENTER THE SHORT TITLE OF DEVICE _____.

ENTER THE NUMBER SHOWN ON NAMEPLATE OF THE MACHINE
REGISTER NUMBER _____.

ENTER THE NUMBER SHOWN ON COVER OF METAL BARRIER.
REGISTER NUMBER _____.

SIGN CARD AND RETURN TO:

(Signature with rank & organization)

FORM NO. 3

2/22

CROSS REFERENCE SHEET

MAIN SUBJECT

War Reserve Stocks

CLASSIFICATION NUMBER

Equipment-Storage of Crypto

To AS-24

Date of Communication 10 Nov 47

From AS-80

Date of Basic Document

BRIEF SUMMARY

It is considered essential that adequate stockpiles of crypto-mechanisms be established to provide for implementation of the Mobilization Plan.

In order to establish a twenty month's adequate stockpile for cryptographic machines, it is recommended that authority be granted Security Division to place in war reserve the quantity of cryptographic devices indicated below:

SIGABA	2000	SIGCUM	1250
SIGIVI	2000	SIGHUAD	500
SIGAMUG	175	SIGNIN	150

Classifier Mrs Beyke

Routed to File

Typist Mrs Beyke

Date of Classifying 24 Nov 47

CROSS REFERENCE NUMBERS

~~Post War Planning~~~~Equipment-Signal Requirements~~~~CONFIDENTIAL~~

10 Nov 47

THRU:AS20

1. AS-24 AS-80 10 Nov 47

War Reserve Stocks

80 924352

1. Based on the Department of the Army Mobilization Plan 1, 1947, the Phased Mobilization Troop Basis sets forth the activation schedules for all units which are to be mobilized after M-Day. The rate of activation will approximate 300,000 men per month toward a goal of 4,500,000 personnel for twelve periods and 8,000,000 personnel for twenty-four periods.

2. It is considered essential that adequate stockpiles of cryptomechanisms be established to provide for implementation of the Mobilization Plan.

3. Cryptographic equipments have no commercial counterparts and therefore require considerable time for procurement. Based upon experience in World War II, approximately eighteen to twenty months elapse between the initiation of contracts and actual delivery of an adequate stockpile of cryptomechanisms. Further, although new cryptomechanisms are in process of development, no bulk procurement is contemplated until emergency conditions warrant it. So for approximately eighteen to twenty months, existent cryptomechanisms must serve the using forces.

4. In order to establish a twenty month's adequate stockpile for cryptographic machines, it is recommended that authority be granted Security Division to place in war reserve the quantity of cryptographic devices indicated below:

SIGABA	2000
SIGIVI	4000
SIGAMGG	175
SIGCUM	1250
SIGHUAD	500
SIGIIN	150

Plans have been made for the reconditioning of these machines and their packaging in moisture-proof, vapor-proof metal barriers. Security Division has received approval for the accounting procedures to be used while the machines are in storage and during their distribution to using forces.

5. Justification for the above figures is as follows:

a. During the last war, 2,700 SIGABA were issued. Based on eight million troops in the field, this makes a ratio of 337 SIGABA per million men or 101 SIGABA per monthly increment of 300,000 men. To expedite operations, two SIGIVI baskets for each SIGABA is required. It is considered appropriate to maintain a quantity of SIGAMGG baskets for combined usage.

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~~CONFIDENTIAL~~

1. AS-24 AS-80 10 Nov 47

War Reserve Stocks (contd)

b. There were 2,500 SIGCUM issued during the last war. Using the above ratio, ninety-three SIGCUM will be required per month.

c. The Airways and Air Communications Service requirements for M-Day are 250 SIGHUAD. Since there exists only 158 of these devices, some 300 SIGCUM (Converters M-228) will require modification to meet this and current requirements. It is further anticipated that a number of SIGHUAD will be required by other users, resulting in additional SIGCUM being changed over to meet those requirements.

d. The SIGNIE is an integrated device designed for field use by division and lower echelons. A number of requests were made by the Army Ground Forces during the last war for a device of this kind but none were issued because the machine was not available before the war ended. Although the Army and Air Force requirements are not known, it is considered appropriate to maintain a quantity of this device on hand in war reserve.

Y. L. CLARK
Acting Chief, Security Division
Extension 241

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