UNCLASSIFIED

RD 99690 SCREENED By M50 Date 7 14 25

CODE-WORD

WSA Technical Library when no longer ne d d

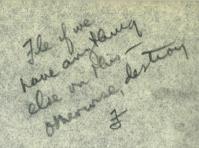
5-42, 162 TEMAN NO.

Daclassified by NSA/CSS Deputy Associate Director for Policy and Records

On _____by__

TOPSECRET

DEPARTMENT OF DEFENSE ARMED FORCES SECURITY AGENCY Washington 25, D. C.



TOP SECRET

AFSA-12/meb Serial G0085

1 6 APR 1951

MEMORANDUM FOR THE DIRECTOR OF INTELLIGENCE, U. S. AIR FORCE ATTN: CHIEF, AFOIN-C/SR

Subject: Alleged Security Violation

Reference: Chief, AFOIN-C/SR, Memo. of 4 Jan. 51 to Chief, AFSA-02

- 1. The questions raised by the reference, and the correspondence and despatches attached to it, are as follows:
 - a. Whether AFSAG 1219 was properly classified and designated.
 - b. Whether distribution of AFSAG 1219 as a registered cryptographic document, rather than as a codeword document, constituted a violation of security, and caused a possible compromise of the specific codeword involved.
 - c. Whether the transmission of a message change to AFSAG 1219 through normal administrative channels constituted an infraction of security.
- A review of pertinent USGIB directives and agreements and Service regulations leads to the following conclusions:
 - a. With the specific codeword mentioned in it, AFSAG 1219 should have been designated with the codeword. However the specific codeword should not have been mentioned in it, since this mention was contrary to USCIB Directive No. 6.
 - b. In view of the circumstance that all holders and users of AFSAG 1219 were indoctrinated for codeword information and actually handled it as if it were a codeword document, the distribution of it as a registered cryptographic document, rather than as a codeword document, probably did not result in an actual violation of security, or a compromise of the codeword involved.
- c. Changes to AFSAG 1219 were transmitted via normal admin-Declassified by MSA istrative channels without violation of security. Changes

Deputy Associate Director for Policy and Records



MEMORANDUM FOR THE DIRECTOR OF INTELLIGENCE, U. S. AIR FORCE ATTN: CHIEF, AFOIN-C/SR

> even to actual codeword documents may be disseminated through channels other than those prescribed for COMINT documents provided the changes do not themselves reveal COMINT codeword information.

3. AFSAG 1219 has been superseded by AFSAG 1219A, which avoids mention of specific codewords, as required by USCIB Directive No. 6.

CG: AFSA-OOB
AFSA-OOT
AFSA-111 (3)
AFSA-O2
AFSA-O4
AFSA-12

J. N. WENGER CAPTAIN, USN DEPUTY DIRECTOR, AFSA

> Mr. Murphy/471/4-6-51 RE: ESLGoodwin/meb/13 Apr 51 AFSA-11/60235

TOP SECRET

DEPARTMENT OF DEPENSE
ARMED FORCES SECURITY AGENCY
WASHINGTON 25. D.C.



Serial: 0003

5 Jan 1952

TOP SECRET SECURITY INFORMATION

MEMORANDUM FOR THE DIRECTOR, COMMUNICATIONS-ELECTRONICS

SUBJECT: Possible Cryptanalytic Compromise of the Combined Cipher Machine

- 1. On 29 December 1951, the Director, Armed Forces Security Agency, forwarded to the Joint Chiefs of Staff a memorandum on the above subject substantially as follows:
 - a. In JCS 2074/10, the Joint Chiefs of Staff were advised of a serious danger to security of Combined (U.K.-U.S.) communications. It was stated that they would be further advised of progress and/or the ultimate solution when reached.
 - b. A new procedure for using the Combined Cipher Machine has been devised which overcomes this security weakness. It has been accepted by the Cypher Policy Board in London and will be put into effect on 7 January 1952.
- 2. An information copy of the message being sent to the Services will be forwarded to the Joint Communications-Electronics Committee.

FOR THE DIRECTOR:

GEO. E. CAMPBELL

Colonel, AGC Adjutant General

Copies to:

OOA

OOC

11 (3)

12 (2)

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JHDouglas/12/60472/wn/29Dec51

FOP-SECRET

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Deputy Associate Director for Policy and Records

.'OP SECRET

DEPARTMENT OF DEFENSE
ARMED FORCES SECURITY AGENCY
WASHINGTON 25, D.C.

Serial: 000263

M. December 1951

TOP SECRET - SECURITY INFORMATION

MEMORANDUL FOR THE DIRECTOR, COMMUNICATIONS-ELECTRONICS

SUBJECT: Possible Cryptanalytic Compromise of the Combined Cipher Machine

- 1. On 21 December 1951, the Director, Armed Forces Security Agency, forwarded to the Joint Chiefs of Staff a memorandum on the above subject substantially as follows:
 - a. On 4 December 1951, Armed Forces Security Agency (AFSA) discovered a method by which messages encrypted using the Combined Cipher Machine (CCM) can be broken in a very short time when the rotors are known. This is considered to constitute a serious danger to security of Combined (U.K.-U.S.) communications.
 - b. The U.S. Services, the Armed Forces Security Agency Council (AFSAC), and the Cypher Policy Board in London have all been informed of this danger and requested to reduce the use of this machine to an absolute minimum pending development of corrective measures.
 - c. The problem of overcoming this security weakness is being given urgent priority by the Armed Forces Security Agency and the Cypher Policy Board. The Joint Chiefs of Staff will be advised of progress and/or the ultimate solution when reached.
- 2. The Joint Chiefs of Staff were informed that the Joint Communications-Electronics Committee would be advised of the subject matter by a separate memorandum.

FOR THE DIRECTOR:

Declassified by NSA/CSS

Deputy Associate Director for Policy and Records

On 70150316 by

GEO. E. SAMPHELL Colonel, AGC

Adjutant General

Copies to:

AOO

OOT

11 (3)

12 (2)

04

JHDouglas/12/60472/wn/20Dec51

7

DEPARTMENT OF DEFENSE ARMED FORCES SECURITY AGENCY WASHINGTON 25, D. C.

Serial: 000269

29 December 1951

TOP SECRET - SECURITY INFORMATION

MEMORANDUM FOR THE SECRETARY, JOINT CHIEFS OF STAFF

SUBJECT: Possible Cryptanalytic Compromise of the Combined Cipher Machine

- 1. The inclosure is forwarded for information of the Joint Chiefs of Staff.
- 2. Please furnish the Director, AFSA, with eighteen copies of the J.C.S. paper reproduced from this report.

Major General, US Army Director, Armed Forces Security Agency

Inclosure
Memo Rpt by DIRAFSA to J.C.S.,
dtd 29 Dec 51, subject as above

cc: AFSA=04 (1) 0/s (1) 00C (1) 00T (1) 11 (3) 12 (2) Mr. J. H. Douglas/12/60472/dot 29 December 1951

Declassified by NSA/CSS

Deputy Associate Director for Policy and Records

On 20150316 by MC

TOP SECRET

AFSA/29 Dec 51

TOP SECRET - SECURITY INFORMATION

MEMORANDUM BY THE DIRECTOR, ARMED FORCES SECURITY AGENCY

to the

JOINT CHIEFS OF STAFF

OD

POSSIBLE CRYPTANALYTIC COMPROMISE OF THE COMBINED CIPHER MACHINE

- 1. In J.C.S. 2074/10, the Joint Chiefs of Staff were advised of a serious danger to security of Combined (U.K.-U.S.) communications. It was stated that they would be further advised of progress and/or the ultimate solution when reached.
- 2. A new procedure for using the Combined Cipher Machine has been devised which overcomes this security weakness. It has been accepted by the Cypher Policy Board in London and will be put into effect on 7 January 1952.

Inclosure with AFSA Serial 000269 dated 29 Dec 1951

DEPARTMENT OF DEFENSE ARMED FORCES SECURITY AGENCY WASHINGTON 25, D. C.

Serial: 000260

21 December 1951

- SECURITY INFORMATION

MEMORANDUM FOR THE SECRETARY, JOINT CHIRFS OF STAFF

SUBJECT: Possible Cryptanalytic Compromise of the Combined Cipher Machine

- 1. The enclosure is forwarded for the information of the Joint Chiefs of Staff.
- 2. Please furnish the Director, Armed Forces Security Agency, with 18 copies of the J.C.S. paper reproduced from this report.

RALPH J. CANINE Major General, US Army Director, Armed Forces Security Agency

Enclosure Memo Rpt by DIRAFSA for J.C.S., dated 20 Dec 51, subject as above

ce: AFSA-04 (1)

11 (3) 12 (2)

c/s (1)

Mr. J. H. Douglas/12/60472/dot 20 December 1951

Declassified by NSA/CSS

Departy Associate Director for Policy and Records

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TOP SECRET

AFSA/20 Dec 51

TOP SECRET - SECURITY INFORMATION

MEMORANDUM BY THE DIRECTOR, ARMED FORCES SECURITY AGENCY to the

JOINT CHIEFS OF STAFF

On.

POSSIBLE CRYPTANALYTIC COMPROMISE OF THE COMBINED CIPHER MACHINE

- 1. On 4 December 1951, Armed Forces Security Agency (AFSA) discovered a method by which messages encrypted using the Combined Cipher Machine (CCM) can be broken in a very short time when the rotors are known. This is considered to constitute a serious danger to security of Combined (U.K.-U.S.) communications.
- 2. The U.S. Services, the Armed Forces Security Agency Council (AFSAC), and the Cypher Policy Board in London have all been informed of this danger and requested to reduce the use of this machine to an absolute minimum pending development of corrective measures.

 The U.S. Joint Communications-Electronics Committee (JCEC) is being informed by a separate paper.
- 3. The problem of overcoming this security weakness is being given urgent priority by the Armed Forces Security Agency and the Cypher Policy Board. The Joint Chiefs of Staff will be advised of progress and/or the ultimate solution when reached.

Enclosure with AFSA serial000260 of 21 Dec 51

TOP SECRET