

~~RESTRICTED~~

*The manual
is now
being
calculated
M*

SUPPLEMENTARY INFORMATION AND "CORRECTION" SHEET

for use with

FM 11-35, SIGNAL CORPS INTELLIGENCE
(2 September 1942)

pending publication of a manual on the
MISSION AND FUNCTIONS OF THE ARMY SECURITY AGENCY

"The information contained herein is not to be considered as an official part of FM 11-35, but merely as an interim substitute until such time as a new manual is published by the War Department covering signal intelligence and communication security activities."

461. Pub.

~~RESTRICTED~~

~~RESTRICTED~~

SUPPLEMENTARY INFORMATION AND CORRECTION SHEET

for use with

FM 11-35, SIGNAL CORPS INTELLIGENCE
(2 September 1942)pending publication of a manual on the
MISSION AND FUNCTIONS OF THE ARMY SECURITY AGENCY

1. In general, the organization, functions, and responsibilities of the Signal Intelligence Service, which are described in FM 11-35, Signal Corps Intelligence, 2 September 1942, apply to the present signal intelligence and communication security organization for the Army - the Army Security Agency. Pending publication of a field manual on the mission and functions of the Army Security Agency, the supplementary information contained herein, and those portions of FM 11-35, which are listed in paragraph 2, below, may be used as interim substitutes for the new manual.

2. The information contained in the portions of FM 11-35 which are listed below is considered to be sufficiently current to be used as a guide, in the instruction of Signal Corps ROTC classes, providing that references to the "Chief Signal Officer" are changed to read "Chief, Army Security Agency"; "Signal Corps" to "Army Security Agency"; "Signal Intelligence Service" to "Army Security Agency organizations" or "Army Security Agency"; "Signal Officer" to "Army Security Agency Liaison Officer"; etc. Other minor changes, principally in terminology, are indicated after specific references, below:

a. Chapter 1

Paragraph 1 - Delete.

2 - On line 5 change word "assigned" to read "allocated".~~RESTRICTED~~

~~RESTRICTED~~

- 3 - Delete.
- 4 - Delete subparagraphs a, b, c, and d. (See paragraph 4 of this correction sheet for current definitions.)
- 5 - Delete. (See paragraph 5 of this correction sheet for a list of current supplementary references.)

b. Chapter 2

(1) Section I -

- Paragraph 7 - Delete. (See paragraph 3a of this correction sheet.)
- 8 - Delete.) See paragraph 3b of this correction
- 9 - Delete.) sheet.
- 10 - Change first sentence to read "Signal communication personnel may be directed to assist in signal intelligence and communication security activities in addition to their signal communication duties."
- 11 - Delete. (See paragraph 3c of this correction sheet.)
- 12 - Delete.

(NOTE: The information contained in paragraph 3d of this correction sheet should be added to Section I, Chapter 2, immediately following paragraph 14.)

(2) Section II -

- Paragraph 16 - Delete subparagraphs b and c. (See paragraph 3c of this correction sheet.)
- 17 - Delete. (See paragraph 3e of this correction sheet.)
- 20 - Delete subparagraphs e and g.

(3) Section III - Change title to read "THEATER ARMY SECURITY AGENCY."

- Paragraph 24 - Delete (See paragraph 3b of this correction sheet.)
- 25 - Delete. (See paragraph 3f of this correction sheet.)
- 28 - Delete subparagraphs b and g.
- 29 - Delete subparagraphs d and f. Change word "Army" in line 2 of subparagraph g to read "theater".
- 30 - Change first two sentences to read "This subsection performs a limited amount of original cryptanalysis. It is dependent upon Army Security Agency, War Department, for assistance in the solution of the more complex

~~RESTRICTED~~

~~RESTRICTED~~

enemy cryptosystems." Add the following subparagraph: "e. Cryptanalysis of simple field cryptosystems."

(NOTE: The information contained in paragraph 3g of this correction sheet should be added to Section III, Chapter 2, immediately following paragraph 30.)

c. Chapter 3

(1) Section I -

- Paragraph 31 - Delete sentences 4, 5, and 6, and substitute the following: "Radio intelligence companies are allocated to various commands as required."
- 32 - Delete.
- 35 - Delete. (For information on communication security procedures and objectives see TM 11-469, Communication Security.)

(2) Section II -

- Paragraph 39 - Delete. (See paragraph 3h of this correction sheet.)

(3) Section III -

- Paragraph 40 - In third sentence, change reference to "Assistant Chief of Staff, G-2" to read "Director of Intelligence, War Department General Staff."

d. Chapter 4 (See paragraph 3i of this correction sheet for general comments on this chapter.)

(1) Section I -

- Paragraph 50 - Delete.
- 51 - Delete.
- 52 - Delete.
- 53 - In subparagraph ^a2, change the reference to "enemy equipment identification officer" on line 4 to read "Army Security Agency liaison officer." Delete subparagraph b.
- 54 - Change first sentence to read "The Army Security Agency liaison officer to whom captured cryptomaterials are reported will assign an officer to make a study of the captured material and to prepare a detailed report with sufficient copies for distribution as required."

- 55 - Change reference to "enemy equipment identification officer" in line 1 to read "Army Security Agency liaison officer."
- 56 - Delete subparagraph b and substitute the following: "b. The Army Security Agency liaison officer will report to the Director of the Theater Army Security Agency. The Director of the Theater Army Security Agency will direct the utilization or disposition of captured cryptomaterial in accordance with instructions from the Chief, Army Security Agency, War Department."
- 57 - Delete.
- 59 - Change the reference to "enemy equipment identification officer" on line 6 to read "Director of the Theater Army Security Agency."
- 60 - Delete subparagraph a and substitute the following: "a. Interrogated by the Army Security Agency liaison officer to augment his report and to devise for better operation and utilization of the captured equipment."
- 61 - Delete and substitute the following: "61. PROTOTYPES TO THE CHIEF, ARMY SECURITY AGENCY-- The Director of the Theater Army Security Agency or the senior Army Security Agency liaison officer will, upon receipt of enemy cryptomaterial, send two prototype sets to the Chief, Army Security Agency by the quickest means of available transportation, or report, as may be required. The equipment should be sent as two shipments rather than as a single shipment. If only one item of a type is captured and it is to be sent to the Chief, Army Security Agency, it should be sent immediately, not waiting for a second prototype. As soon as another is captured, the second item should be sent."
- 62 - Delete caption and first sentence. Substitute the following: "62. INFORMATION REQUIRED.--The following factors will be considered in the report forwarded to the Director of the Theater Army Security Agency or the Chief, Army Security Agency, War Department."

e. Chapter 5 (See paragraph 3j of this correction sheet for general comments on this chapter.)

(1) Section I -

Paragraph 63 - Delete all except the last sentence of this paragraph.

- Paragraph 64 -) ~~RESTRICTED~~
 65 -) (See paragraph 9 of this correction
 66 -) sheet.)
 68 - Delete all except the last sentence of
 this paragraph

(2) Section III -

Paragraph 72 - Delete first sentence. Change second sentence to read "Cooperation with existing civilian facilities is not possible and consequently a large force of signal intelligence and communication security monitoring personnel will be required."

f. Appendix I - Delete. Also delete references to this appendix which appear throughout FM 11-35.

g. Appendix II - Delete. Also delete references to this appendix which appear throughout FM 11-35.

3. SUPPLEMENTARY INFORMATION.--a. General.--The Army Security Agency was established by War Department directive on 6 September 1945. It is composed of all signal intelligence and communication security establishments, units and personnel of the Army, except cryptographic personnel of signal and message centers operated by other military organizations, tactical radio traffic control personnel, and the technical intelligence personnel who deal with captured enemy signal equipment which is not of cryptologic interest. The Army Security Agency operates under the control of the War Department which is exercised through the Director of Intelligence, War Department General Staff. The reorganization of the War Department on 11 June 1946 (see War Department Circular No. 138, 1946) made the Army Security Agency an integral part of the Intelligence Division, War Department General Staff. The Chief, Army Security Agency, War Department, is charged with the accomplishment of the signal intelligence and communication security missions of the Army. (This information supersedes paragraph 7 of Section I, Chapter 2; FM 11-35.)

b. Theater Army Security Agencies.--In each theater of operations there is a Theater Army Security Agency which serves the theater commander in

~~RESTRICTED~~

signal intelligence and communication security matters in much the same manner as Headquarters, Army Security Agency, serves the War Department. Theater Army Security Agencies are similar in organization to the War Department Agency but on a reduced scale. The scope of the theater agencies' activities are determined by the local tactical missions and the signal intelligence and communication security functions which may be performed for the theaters by the Army Security Agency, War Department. Theater Army Security Agencies have at their disposal various signal intelligence and communication security organizations which they may allocate to subordinate commands within the theaters to perform local missions. Some of these organizations may be retained in a general reserve for assignment as the military situation dictates. Other units may be reserved for the performance of missions for the theater headquarters. Below theater level, and for certain independent commands under the War Department, the signal intelligence and communication security activities are handled by Army Security Agency liaison detachments. (The above information replaces paragraphs 8 and 9 of Section I, and paragraph 24 of Section III, Chapter 2, FM 11-35.)

c. Signal intelligence and communication security organizations.--

The Signal Radio Intelligence Company, T/O 11-77, referred to throughout FM 11-35 is now obsolete. References to T/O 11-77 should be deleted. Replacing the Signal Radio Intelligence Company are the following organizations:

(1) Air types:

- (a) Radio Squadron, Mobile T/O & E 32-1027 (a signal intelligence organization)
- (b) Radio Security Detachment, T/O & E 32-952 (a communication security monitoring organization)

~~RESTRICTED~~

(2) Ground types:

~~RESTRICTED~~

- (a) Signal Service Company, Radio Intelligence, T/O & E 11-500* (a signal intelligence organization)
- (b) Signal Service Company, Radio Security, T/O & E 11-500* (a communication security monitoring organization)

It will be noted that the communication security monitoring functions of the old radio intelligence company (T/O 11-77) have been divorced from the signal intelligence functions. The two functions are now performed by the separate organizations indicated in (1) and (2), above. The four types of organizations listed above are the basic information gathering units of the Army Security Agency. Through these units the Army Security Agency obtains most of the material for its study. In addition, there are smaller units which have more restricted functions such as cryptographic production, distribution and accounting teams; laboratory teams for the employment and detection of secret inks, microphotographs, and disguised writing; cryptoequipment maintenance and repair units, and wire intercept teams. Army Security Agency units and personnel are allocated to various commands in the types and quantities required to meet the local military situation. (The above information supersedes paragraph 11, Section I, and subparagraphs b and c of paragraph 16, Section II, Chapter 2, FM 11-35.)

d. Coordination of Army Security Agency Activities.--Overall coordination of all Army Security Agency units is accomplished by the Chief, Army Security Agency, War Department, in accordance with War Department policies. Complete coordination of all signal intelligence and communication security activities which comprise the responsibilities of the Army Security

* Portions of T/O & E 11-500 which pertain exclusively to Army Security Agency functions will be republished shortly in T/O & E 32-500, Communication Reconnaissance Organization.

~~RESTRICTED~~

~~RESTRICTED~~

Agency is necessary because of their complementary and interdependent nature. Coordination is effected through a special technical channel which exists to facilitate complete and rapid exchanges of signal intelligence and communication security information. Thus the full power of each activity is exerted to effect improvements in the other. Maximum economy is achieved by eliminating duplication of effort and establishing common standards of performance. (The above information should be added to the end of Section I, Chapter 2, FM 11-35, immediately following paragraph 14.)

e. Duties of the Chief, Army Security Agency, War Department.--The Chief, Army Security Agency, War Department, is responsible to the Director of Intelligence, War Department General Staff, for the accomplishment of the signal intelligence and communication security missions of the Army in accordance with directives formulated by the War Department. He coordinates the operations of all Army Security Agency units and personnel of the Army. He maintains liaison with other groups in Intelligence Division, War Department General Staff, which are concerned with the functions of the Agency, and with the Signal Corps, Navy and other governmental departments, and with friendly foreign governments as directed by the War Department. He is the technical advisor to the Director of Intelligence on signal intelligence and communication security matters which constitute the responsibilities of the Army Security Agency. (The above information supersedes paragraph 17, Section II, Chapter 2, FM 11-35.)

f. Duties of the Director of the Theater Army Security Agency.--The Director of the Theater Army Security Agency is responsible for the successful accomplishment of the signal intelligence and communication security missions of the theater which are received in the form of general directives from the theater commander. He maintains close liaison with other theater intelligence

~~RESTRICTED~~

services; acts as technical advisor to the theater commander in signal intelligence and communication security matters, and coordinates the operations of all theater allocated Army Security Agency organizations in accordance with general War Department policies and theater policies formulated within their framework. (The above information supersedes paragraph 26, Section III, Chapter 2, FM 11-35.)

g. Army Security Agency operations below theater level.--Field forces subordinate to a theater headquarters, down to and including division and comparable headquarters of air forces, will be served by Army Security Agency liaison detachments and such signal intelligence and communication security units and personnel as may be necessary. The primary mission of each Army Security Agency unit is to support the command to which it is allocated. Missions are assigned by the local commander. The functions of the Army Security Agency liaison detachments are to advise local commanders on signal intelligence and communication security matters; proper employment of the Army Security Agency units allocated to those commanders; plan and direct the employment of Army Security Agency units, and coordinate their operations with those of the signal intelligence and communication security units at the next higher and/or lower levels. (The above information should be added to Section III, Chapter 2, FM 11-35, immediately following paragraph 30.)

h. The information on authentication systems and procedures contained in War Department Training Circular No. 74, 1944 (as amended by WD TC No. 33, 1945, and WD TC No. 1, 1946) replaces that which is contained in paragraph 29, Section II, Chapter 3, FM 11-35.

i. Insofar as captured enemy signal intelligence and communication security equipment and documents are concerned, the Army Security Agency

~~RESTRICTED~~

~~RESTRICTED~~

operates a service similar to that described in Chapter 4, FM 11-35. The Army Security Agency service is concerned only with cryptologic items.

j. Army Security Agency offers assistance to censorship by examining documents for traces of invisible writing, and microphotographs and in the solution of open codes, shorthand writing and unauthorized cryptosystems. Except insofar as Army Security Agency facilities may be used to monitor electrical communications over which literal, voice or facsimile transmissions are passed, the censorship activities described in paragraphs 64, 65, and 66 of Section I, Chapter 5, FM 11-35, are the responsibility of other intelligence organizations or of the operating agencies, themselves.

4. Definitions.--The following are current definitions for terms used in this correction sheet and in FM 11-35:

a. Signal intelligence - all intelligence derived from the study of radio transmissions and other communications.

b. Communication security - the protection resulting from all measures designed to deny to unauthorized persons information of value which might be derived from communications.

c. Cryptosecurity - that component of communication security which results from the provision of technically sound cryptographic systems and their proper use.

d. Transmission security - that component of communication security which results from all measures designed to protect transmissions from interception and traffic analysis.

e. Physical security - that component of communication security which results from all measures necessary to safeguard classified communication equipment and material from access thereto by unauthorized persons.

~~RESTRICTED~~

~~SECRET~~

f. Cryptology - that branch of knowledge which treats of the production, use, and solution of the means and methods of secret communication.

g. Cryptography - that body of knowledge which treats of the various means and methods of rendering plain text unintelligible and reconverting unintelligible text into intelligible language, or the application thereof.

h. Cryptanalysis - the steps and operations performed in converting into intelligibility encrypted literal, speech and facsimile transmissions without knowledge of the system and/or the specific key employed.

i. Traffic analysis - that branch of signal intelligence analysis which deals with the study of the external characteristics of signal communications and related materials for the purpose of obtaining information concerning the organization and operation of a communication system. This information is used (1) as an aid to cryptanalysis, (2) as a basis for drawing deductions and inferences of value as intelligence even in the absence of specific knowledge of the contents of the message, and (3) as a guide to efficient intercept operation.

j. Interception - the process of gaining possession of communications intended for others either by copying or recording or by other means.

k. Monitoring - listening in on one's own stations or on stations of friendly forces, with a view to maintaining security.

l. Open code - a cryptographic system using external text (enveloping text, apparently innocent) to hide a secret text.

5. References.--Supplementary information may be obtained from the following:

TF 11-205	Safeguarding Military Information - Cryptographic
TF 11-2044	Radio Transmission Security
AR 380-5	Safeguarding Military Information

~~RESTRICTED~~

- TM 11-469 Communication Security (references in this manual to the "Chief Signal Officer" should be changed to read "Chief, Army Security Agency", and "SPSIC" to "WDGAS-82".)
- TM 11-484 Elementary Military Cryptography
- TM 11-485 Advanced Military Cryptography
- WD TC 74, 1944 Authentication systems (Amended by: WD TC 33, 1945, Section II, Authentication systems, and WD TC 1, 1946, Authentication systems.)

6. Charts of the organization of Army Security Agency at War Department level and in the theater may be constructed from the information contained in Sections II and III, respectively, of Chapter 2, FM 11-35, as amended by this correction sheet. Charts so constructed will be essentially correct. The exact details of organization cannot be disseminated for security reasons.

~~RESTRICTED~~