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- - a. Whether any injustified burden is being imposed on summinenters.
 - b. Whether any information is being submitted which con properly be dispensed with.
 - The security elemeification required for the reports of violations and the related materials submitted by smil.

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- 2. It is ensential to maintain a continuing appreheal of the security of expressions in use by the Armed Forces and to take corrective action familiately upon the commitmen of any situation which may possibly cause the compromise of expressionial. To easiet in such action, AFSA has established a procedure which requires the reporting of violations of physical security and crypto-security.
- 3. Violations of both physical security and anythmeturity very over a wide range instant as the seriousness of the violations is conserved, and all the circumstances must be considered in order to determine the probability that a violation, or the sun of a series of violation, has paralited expresserial or the intelligence underlying the encrypted texts

REF 47.1910

of manages, to become available to unsutherized persons.

- 4. All instances of knows or suspected physical compression or less are reported by mesonge, as follows:
 - a. Action copy to MINATSA.
 -). Infermation copy to the Service Headquarters.
- 5. In the case of violations of exploseourity, ASA has promulgated a get of guiding rules which permit observers to determine whether:
 - a. The violation is of a type which in itself is possibly serious enough to result in a compromise, or
 - The violation is of a type considered a practice describes.
 to executive, and which would have to be exemined in conjunction with other violations to determine the resultant effect.

In accountion with a. above, a further breakform of the relative seriousness of expected violations and the meet of argumey in their craimation has emplied DIRAFSA to divide "possible empromises" into two embeddinate entegories which govern whether measure reports shall be foresided to MIRAFSA with a PRIORITY or MIRAFED precedence.

- 6. The observer of a expeteriolation first determines whether the case at hand falls under sub-paragraph a or b above, and then takes appropriate reporting action. If the violation is determined to fall under a, the violation is reported by message, seat as follows:
 - 25, D. C. for action.
 - To the station responsible for the violation for information,
 If a United States Armed Forces Community.
 - To the Service headquarters for information as indicated in Assentix A.

6. (Centimed)

The mostage to classified MCDET, unless a TCF MCDET message is involved, in which case it is classified TCP MCDET. Sopies of the message)
implied in the violation are forwarded to NIMPEA by air sail. The texts
the classified MCDET, unless a TCP MCDET message is involved, in which
case the text is classified TCP MCDET. If the violation is determined to
fall under b. reports are forwarded by sail as specified by the individual
Service procedures, with a copy being each to MERAPSA.

- T. In addition to the reporting of all violations bearing on the apparently of experienterial, heap and Air Force holders are required to commit to their respective dervice Cryptologic Agencies, just not to MIRATSA, mail reports of procedural errors, i.e. these violations of instructions which affect the efficiency of operation by sensing loss of time and extra work or come doubt to exist as to the exact plain test in the sensage. An exactly of ein to eight types of procedural violations is listed for each of the approaphon presently in use, and eccurrences of such violations are reported by said to the Army and Air Force Cryptologic Agencies. The U.S. Hery does not require the reporting of such procedural errors.
- 8. With regard to the investigation of sircumstances surrounding lapses of expressively or possible suspensions resulting from violations of systems of the present of the systems of t
 - E: Within the Army and Air Ferre, an investigation is required to determine the eincommunace and fix the responsibility, in such instance of loss or physical compromise, and in each instance there a communical is declared as the result of a

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- \$. a. (Centinued)
 Violation of exyptosecurity.
 - b. Within the Navy any case of a loss, or known or suspected physical compromise is investigated in accordance with Chapter 3 of RPS 4. Further, any expressentity violation of a type populating message report to DIRAFSA also requires an investigation and report to CNO.
 - e. Information copies of reports of investigation are furnished MIRAPAA.
- 9. The basic research for reporting violations of cryptosecurity and physical security are as follows:
 - A. Such a procedure permits an evaluation to be made of the effect which each violation has upon the security of the system, and a determination to be made of the probability that such violations permit unauthorized personnel to gain intelligence.

 From U. S. communications.
 - b. Such a procedure possite DEAFSA and the Service Oxyptologic

 Agencies to evaluate the practicability and clarity of the

 False and regulations governing physical ascurity and crypto
 security and to make necessary revisions in these rules. It

 gails attention to types of errors which say not have been

 spiginally foreseen and may jeopardize security. For example,

 the method of transmitting message indicators in the ASAX system

 was found to result in an abnormally large number of messages

 bearing the unenciphered rotor alignment at the beginning of

 the message and the message indicator as the end, thus flagging

9. b. (Continued)

ems of these as the correct rotor alignment. How the message indicator is phoneticised at the beginning of the swessee and is not repeated at the end.

- ison a procedure serves as a means of evaluating the efficisony and status of training of cryptographic personnel, and of their awareness of and compliance with the regulations governing the handling, storage and use of cryptomaterial. It permits corrective action to be taken in instances of abnormally frequent violations.
- d. It should be pointed out that the procedure itself tends to increase the ammeness of cryptopersonnel to the requirements of cryptosecurity and to that extent serves a useful purpose even in those instances where the probability of emprovise any below.
- 10. It may be seen, from the above discussion, that an effort has been made to segregate violations into categories and to establish several methods of reporting these violations, in accordance with the probability that the violation will result in declaration of compromise. This program is maintained under a continuing review and is revised as new aryptographic procedures are introduced or as new cryptanalytic techniques are developed. Even with such an approach, it has not been possible to draw up such exact rules that the meers need only report those violations which always or mearly always result in a declaration of compromise. Attached as Inclosure 1 is a missary of the compromises actually declared by APIA since 1 Nov 1950

REF ID:A71910 SECRET

200

10. (Continued)

on the basis of reports of violations of eryptoscourity. It will be mated that approximately 12.25 of all vielations reported by message result in comprovise. A review of the types of violations to be reperiod by message could be made, with the object of including in the listings only those violations which have the greatest probability of resulting in congression. Such a revision sould disinish the number of mandage reports and increase the percentage of those violations which result in a declaration of compremise. On the other hand, such an approach introduces the risk that occesionally a violation would occur, under special circumstances which permit unauthorised persons to obtain intelligence from U. 3. communications, and the violation would not be reported. In the ether hand, the list of violations for each or, ptomystem could be expanded, so that virtually all violations would be reported by message, thus ministaing the risk of any unreported violetions and sawring rapid evaluation of each case. This approach introjuces the problems of interference with operations, a greatly increased volume of message reports and, in the case of the Mavy, a large increase is the manher of investigations.

II. In the final enalysis, the determination of what violations of the rules governing the physical and cryptosecurity of cryptosecurity shall be reported, and what urgancy is to be given those violations determined as requiring a report, is based on the following considerations:

SECRET

127

11. (Gentiment)

- a. A detailed knowledge of the cryptanniptic weaknesses of its one systems and crediting foreign nations with an equally edvanced state in the cryptanniptic art.
- b. Consideration of the effect of each violation upon the security of the system. Merconition that, as the number of types of violations to be reported is expanded, the master of compromises declared thereon is not correspondingly increased, i.e. the law of diminishing returns expending play.
- e. Probability of emptowaterial having become evailable to unsutherized persons.
- d. Assumption that every message transmitted by electrical means, other than over approved circuits, has been made smallable for interception by unsuthorised persons.
- 12. We the basis of the above considerations, the violations to be reported for each system have been specified in Chapter 3 of AFAG 1210. It is to be emphasized that these listings do not remain static. As procedures are improved it is possible to eliminate certain weatnesses, and thus to eliminate reports of violations in connection theresith. As the styptamalytic art sivences now meaknesses are occasionally uncovered, requiring reports of violations not previously considered as serious.