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EXTRACT FROM HEADQUARTERS MEDITERRANEAN THEATER
OF OPERATIONS, UNITED STATES ARMY, G-3 Div.

SECTION XVIII. COMMUNICATIONS

89. a. Concur. The need for integration of radio and wire systems is unquestioned. However, the weakest link in such integration is the lack of suitable secrecy and security equipment for use particularly in the radio portions of such systems. It is believed that the major emphasis should be placed on the development of all types of automatic and speech cipher devices. A certain amount of inherent security is available in some types of radio equipment (Pulse transmission as used in the AN/TRC-6, for example); therefore, cipher and radio development should be closely coordinated. The problem of physically tying radio and wire together is a relatively minor one.

*Subscriber units
Supplemented by
System units*

89. b. (See Section II, Infantry Equipment, Para. 9d.) Concur. Development of speech security equipment should be stressed with a view toward procuring a lightweight, reliable, secure scrambler. The only speech security equipment which has been available for general use in this theater has been neither sufficiently secure nor adaptable. Small automatic equipment which will operate over regular radio and/or wire circuits and provide the security of a reasonably high grade cipher device is required.

89. g. Concur. Also worthy of note is the fact that facsimile equipment such as the RC-58 is an advanced step in filling a vital communication need. It is believed that for forward elements there is a greater need for an improved and simplified facsimile equipment than for a lightweight teletypewriter. The RC-58 facsimile equipment should be modified to receive the tape from the M-209 converter. Consideration should be given to the development of a combination lightweight field teletypewriter and automatic cipher

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device. Likewise, the combination of the field facsimile equipment with a cipher device built-in would fill a tactical need. The facsimile equipment, RC-120, should be further developed in order that aerial photographs may be transmitted with less loss of definition. Such pictures do not at present show sufficient definition to permit their use in selecting ground targets for artillery.

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89. h. (See Section III, Armor Equipment, Para. 17 c.) Experience in this theater has indicated little need for, or use of, authentication equipment. It is believed that the need for such equipment exists only in untrained or inexperienced units. Equipment such as described in the preliminary report may be of great value but it is the opinion of this board that such equipment would cause a constant problem through loss, compromise, etc., and be of little more use than the present system.

89. i. Concur

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