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To: Assistant Chief of Staff, G-2, War Department General Staff, Washington 25, D. C., Attention: Lieutenant Colonel Goodrich M. Dand A. Saluen, Special Co I. Attention is invited to the attached communication from the State, Department requesting the issue of four (4), H-134-A cipher machines, Converts Hyper M-134-A. 2. Subsequent to the receipt of this letter, additional equipment the Embassies in

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was informally requested for installation at Stockholm and Lisbon.

3. Through informal contacts with the Navy, it has been ascertained U,S.Navy that the State Department requested HCM cipher machines for issue to their installations in Madrid, Stockholm, Lisbon, Istanbul, Ankara, Algiers, and Cairo. Navy Department agreed to the installation of HCM cipher machines in Ankara, Cairo, Istanbul, and Algiers, but declined to issue the subject equipment for installation in Stockholm, Lisbon, and Madrid for security reasons.

4. The State Department, at present, has HCM cipher machines in most of its South American installations. At the present time, the State Converter Department has eight (8) M-134-A cipher machines, of which four (4) are located in the United States Embawsy in London and four (4) in the State Department in Washington. The code room in which this equipment is located

in London-is-poneted by United States Army personnel. at is obvious that at the present time and especially in the near future it is It is felt that it is necessary, to aid the State Department in to the best interest of the Government that the cryptographic security of the State maintaining cryptographic security of the highest order with respect to Department be office Righest order. for a number of years the Signal Security Again, its cryptographic communications, Since the Army and Navy have competent winder authorized deractures, has been rendering technical adure and personnel and equipment capable of accomplishing this mission, it seems operational assistance in the production of upptographic materi wise that they should aid the State Department as much as possible so for the State Department in its proper maintainere and use, a they a residence of the Department's cuptoge 12mg race ious, from the polent of view of asa ng than sec HRA SSA' and Castan Keed sides Wated by revedes 50 or and and masures

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long as United States fray or Navy cryptographic security is not joopardized, In order to facilitate production of cryptographic systems, 6. training of code clerks, maintenance of Whe equipment, and handling of machanismo of traffic, it is desirable that the same basic, cryptographic equipment be used throughout an organization. This is not the situation of the State Department communications net at the present time since both HCM and M-134-A 2 cipher machines are now in use. The following three plans are offered as possible solutions to this problem: Converter Type The United States Army has available thirty (30), M-134-A is obsolete to far as U.S. Army use is concerned and cipher machines. This equipment could be issued to the Military Attachem at an Embassy or Legation, as the case may be. "Military Attache will be responsible for maintaining physical and cryptographic security. The : direct equipment Could be operated under his supervision by United States Army the Ambassader or Minister personnel which would be furnished when him for this purpose. make available a new U.S. Army device called An alternate plan would be to issue, the Converter M-325 for Ъ. Ohes is a hand-sparated device of Eligh sacurity but relatively lows State Department use. The cryptographic principles involved in the are similar to those of the German Enigma; however, the mechanical design and offers for greater prostilities for variation, the German design, It is felt that the of the M-325 is fait superior to the German design M-325 could be issued to present State Department im tallations requiring Enlissies and segations State Dopartment high level cryptographic systems. It would be necessary to train personnel use and at these installations in the maintenance of the equipment; however, it is y clatively Several hundred M-325 cipher quite simply constructed and easy to maintain. for this purpose devices can be made available to the State Department, in the near future. Their issue would be limited to Embassys and Legations. Window and Ruice Materighre therefore working the the Eurgina. SECRE Jus ma i

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Aince this type is about at no more markings are being namefactured and therefore if it were necessary to extand the distribution within the State Department more would be available. Even if no more were noded the matter of replacement parts would present difficulties. As the marking get older it housed be increasingly difficult to maintain them and military personnel for this peupose and for their afficient operation would have to be provided on a wore or bas permanent basis.

* * it being approximately aqual in this respect to the good of the

the State Department code REF ID A67287 noomen washenston, fondou DRAFT JLUII and a very fair additional A composite plan embodying the principles of a and b, above, с. Converter would be to limit the issue of the clipher device M-134-A to) selected such as Madrid, Fisbon, Stockbolu, Algres, Cairo, Aukara, and Defambel. Embassies. The selection would be accomplished through conferences to hal between representatives from the War Department and from the State Department. The provisions for maintaining cryptographic and physical security would be the same as those outlined in a, above. All Embassies and Legations fould be authorized to-hold cipher device M-325. This plan would provide between the Separtment and high level, high speed cryptographic communications for those Embassies handling large amounts of traffic and would also provide a highly secure Communications between they - and its smaller Embre but less rapid cryptographic device for State Department installations and Legations outlined in Par. 6 c is having less heavy traffic loads. *** SSA be and when ---composite It is recommended that if this plan be adopted the State Department be-authorized cipher device M-134-X for issue to Embassies in Stockholm, additional markenes be special for use at Lisbon, and Madrid, and as they desire in Algiers, Cairo, Ankara, and Istanbul.

It is further recommended that authorization be granted from Assistant Chief of Staff, Uperation Division, to assign United States Army state Delt holding the option Dource M-134-A personnel to the Military Attaches at these locations to operate and maintain this equipment. The Dutles of Such PERSONUCE. Week D BE TO OPERATE AND HAINTAIN THE ORYPTOGRAPHIC EQUIPMENT.

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REF ID: A67287 7. Of the foregoing three plano, the second appears to be the most advantageous, and distroits for recommending it to the State Department for Its consideration is requested. Details as to prove-ment, assue, use, etc., could then be discussed with the State Department. * * * Our The disadvantages of this plan are that ") the servicing and maintenance defficielties manhoned under plan a sorreld All be present to favor concerns the M-134-A machines, "> military ofcerating and manuference personnal would shell have to be provided to a limited extent, (3) the high-level communieation devices would be of two different types, making intercommunication demong all installators and more completed.

of the plan & is adopted authority is required to procure The necessary additional Converters M-325 and of to release the number sequered for State Department. use from any procurement and processe replacements therefor for any use. authouts is also required to procure and thanofor to the Spate Department the automatic Type M-315 machines and to devent sufficient Sigaba production to this purpose of they are to be received prior to the early part of 1945