OFF ID: A2435/798

28 January 1947

PERSON

Expt. Wilson Col. Marr-Johnson

Mayr Capt. Smith Com. Hargroaves Army Cel. Bisher Mr. Friedman Br. Sinkey

The British position as explained by Captain Wilson can be summarised as follows:

From a long-range point of view meither the Typex nor the CCH can be considered sufficiently seeme to withstand improving cryptanalytic precedures and high speed techniques. This remains true even after the security is improved by such ideas as changeable can contours. The British are seeking a replacement for Typex and would like to selve the problem of communication at the same time. Otherwise they would require two distinct machines. The difficulty with making concrete suggestions is the lack of knowledge about our ideas for future communication.

a. If we do not insist on retaining the principle of a eigher mass with stepping actuated by a control mass, the British would like to present a whelly new idea. Their cryptanalysts consider it better than the ECM with the added advantage that it would be adaptable to low echelon use.

b. If we insist on the ECG principle, then it could go into the OCM. The British are familiar with this principle and are building it into a redicteletype device which has the additional feature of varying end plates by means of an insert. The device could be designed for mon-radicteletype use.

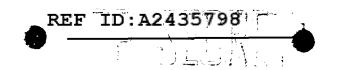
In either case, the low exhelen problem deserves argent consideration. It requires high security because it is the higgest element of danger from cribs, stereotypes, and other aids. We must make systems secure enough so we need no longer be concerned with paraphrasing, stereotypes, reencipherment, difficult indicator systems, etc. Intercommunicability between low and high exhelon is not insisted on but desirable.

When the question of lew echelon compromise and loss of signal intelligence was brought up, Captain Wilson indicated that security was paramount and outweighed signal intelligence considerations.

Declassified and approved for release by NSA on 09-19-2013 pursuant to E.O. 13526

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V. 5. representatives unde the fellowing points:

- a. A tremendous investment has gone into the ECM and the machine is considered entirely satisfactory.
- b. The CSP 1700 could be considerably improved and is mechanically satisfactory.
- e. The information stainable from low echelon solution is not anywhere near as great as is supposed and further it ties up enemy personnel.
- d. In enemy would sertainly copy a cryptographic device captured in lewer echelons if there were sufficient incentive.

The meeting adjourned to allow U. 3. representatives to get indication from higher authority of a policy decision regarding long-term retention or scrapping of the ECM principle.

