

MEMO ROUTING SLIP		NEVER USE FOR APPROVALS, CONCURRENCES, OR SIMILAR ACTIONS	
1 NAME OR TITLE	AFSA-04	INITIALS	CIRCULATE
ORGANIZATION AND LOCATION		DATE	COORDINATION
2	AFSA-03		FILE
			INFORMATION
3 for 03 A 2	lws		NECESSARY ACTION
3.1 31		HUB	NOTE AND RETURN
4	OOT		SEE ME
			SIGNATURE
REMARKS			
<p>Re recent memo on "Low Echelon Cipher Machine" I am returning Hagelin's modified M-209 today and asking him to let us have one of his improved models as soon as it is available. Concur in your pers.</p>			
Declassified and approved for release by NSA on 06-16-2014 pursuant to E.O. 13526			
FROM NAME OR TITLE		DATE	
OOT		28 Sept 57	
ORGANIZATION AND LOCATION		TELEPHONE	

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SEP 25 1951

MEMORANDUM FOR AFSA-OOT

THRU: AFSA-04 *RCS*

SUBJECT: Low Echelon Cipher Machine

REFERENCES: (a) OOT Memo to AFSA-03, dtd 29 Aug 51  
(b) AFSA-04 Memo to AFSA-03, dtd 11 Sep 51

1. AFSA-03 is of course interested in the development of any equipment; including the modified M-209, which might satisfactorily meet the requirement for a low echelon cipher machine not requiring electrical power.

2. It is understood that AFSA-04 has not been able to make a comprehensive security evaluation of the modified M-209 as yet due to the fact that the model submitted by Mr. Hagelin does not operate satisfactorily. AFSA-04 points out, however, that such studies as have been made seem to indicate certain security weaknesses in the sample model as it now stands.

3. Since Mr. Hagelin's organization is currently engaged in improving the design of his machine, it is felt that any decision regarding the establishment of a project to develop this particular type of equipment for our own use should be delayed until the results of Mr. Hagelin's latest efforts have been studied and a complete security evaluation of the crypto-principles involved has been made.

4. AFSA-03 therefore concurs in the recommendation made in paragraph 4 of reference (b) and suggests that the model of the machine which we now hold be returned to Mr. Hagelin immediately and that he be asked to send us a model of his new design as soon as possible.

CC: AFSA-04



J. S. HARPER  
Captain, U.S. Navy  
Chief

Office of Research and Development

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