

48.3(1)

Contribution of Signal Intelligence Toward Victory in World War II and Its Relatively Small Cost

1. a. The Hearings held by and the Reports of the Joint Congressional Committee on the Investigation of the Pearl Harbor Attack are replete with references to the nature and value of the large amount of signal intelligence produced by the cryptanalytic services of the Army and the Navy before the attack. The testimony of all the important and high-ranking witnesses lead the Majority to characterize in their report (p. 253) the signal intelligence as "some of the finest intelligence available in our history." An excellent summary statement appears on p. 232 of the same report:

"The success achieved in reading the Japanese diplomatic codes merits the highest commendation and all witnesses familiar with Magic material throughout the war have testified that it contributed enormously to the defeat of the enemy, greatly shortened the war, and saved many thousands of lives."

b. Perhaps the most valuable testimony as to the value of the signal intelligence produced by the Army and the Navy before and during World War II is found in the letter which General Marshall, Chief of Staff, wrote to Mr. Dewey on 27 September 1944.

c. The present Director of Intelligence, WDGS, who served throughout the war in the Pacific as G-3 on General MacArthur's staff, has recently stated:

"The information G-2 gave G-3 in the Pacific Theater alone saved us nany thousands of lives and shortened the war by no less than two years."

2. Assuming the last statement valid, and with the knowledge that the information to which reference was made consisted almost exclusively of signal intelligence, it follows that the operations and results produced by our signal intelligence agencies shortened the war by no less than two years. A rough calculation may therefore be made as to the monetary value of signal intelligence by comparing the cost of producing that intelligence with the cost of maintaining a fighting army for two years. It will be warranted to select the last two years of the war as a basis for calculation.

3. a. Cash spent for operations of Signal Security Agency, Washington:

FY 1945	\$14,840,234
FY 1946	9,107,124
Total for both years	



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b. Estimated cost of pay and allowances for military personnel at Signal Security Agency, Washington:

FY 1945	\$ 5,524,626
FY 1946	3,337,494
Total for both years -	\$ 8,862,120

c. Cost of plant, Arlington Hall Station\*

Original real estate\$	650,000
Furnishings with purchase	40,000
New construction	<u>'5,560,000</u>
Total cost\$	6,250,000

\*No deduction is made for normal depreciation.

d. Cost of supplies and services (estimate):

Requisitions through Supply\$	2,500,000
Communications service for	2,000,000
two years Total cost\$	4,500,000

e. Estimated cost of overseas operations

For two years at \$2,500,000 per year -- \$5,000,000

## Recapitulation

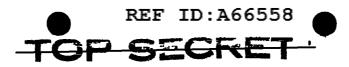
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Total cost for two years -----\$48,559,478

4. Since it is difficult to state how much of the COMINT provided overseas commands was produced by the Army and how much by the Navy, it will be assumed that both Services contributed equally in this regard. Also, it is assumed that the cost of operating the Navy COMINT service was approximately the same as that of the Army, that is, approximately \$48,559,478. Calling it \$50,000,000 for each Service, the total cost was \$100,000,000.

5. The total appropriations for the two Services for the FY 1945 and 1946 were as follows:

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Army 1945 Navy 1945 Army 1946 Navy 1946	29,493,000,000 21,497,000,000
Total Approximately	
Add for other quasi-military functions carried on for activities directly connected with the war	\$10,000,000,000
Total	\$100,000,000,000

6. Ratio of total cost of COMINT Services to total cost of war for two years:

 $\frac{\$100,000,000}{\$100,000,000} = \frac{1}{1000}$ 

That is, one dollar spent COMINT-wise is worth One thousand spent otherwise.

