WAR DEPARTMENT REF CERDER A 67465 JOB TICKET SENT MESSAGE Declassined and property of release by NSA on pursuant to WAR DEPT. CODE SECT. NO.1 Declassified and approved SIGNAL CENTER D4-04-20. 1543 JUL 8 11 30 1943 JUL 8 GREENWICH CIVIL TO LEAD (Time Standy) GRELINGICH CIPT

(Time Stamp) THE TO: CODE CLERK START: CODE CLERK FINISH: FROM: CODE CLEEK: NUMBER: INDEX: PRIORITY () ROUTINE MESSAGE (1st 10 words) ; SECRET () CONFIDENTIAL () RESTRICTED CM-OUT-1943

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EXUIDIT

REF ID:A67465

REPORT ON THE PROCESS TIME OF 228-Q RECEIVED AND SIGABA MESSAGES

The necessary graphs and data for an analysis of the time spent in processing Sigaba Messages Sent, Sigaba Messages Received, and 228-Q Messages Received are submitted herewith.

Material Used: 1800 reports similar to Exhibit A.

1000 reports similar to Exhibit B.

200 reports similar to Exhibit C.

1630 reports similar to Exhibit D.

Method: The time intervals for each process were tabulated and the results pictured graphically. The modes were approximated from graphs and data; said data being that from which the graphs were calculated. The time interval "From Code Center to Decoding Section" includes a delay and an operation which cannot be separated with the information in Exhibits A, B, C, and D. This division was made by approximation. Encoding time and the delay immediately preceding encoding were not separated on Exhibit B, therefore, to find the former, a study of 1630 job tickets (Exhibit D) was made.

From Exhibit D the average time of 5 minutes for encoding Sigaba Messages Sent was obtained.

Conclusion: The mode is considered a better statistic for this study than the mean. A few messages have very long time intervals for some processes and therefore the mean has a value which is not typical of its group.

Of the total time 36% is operating time for Sigaba Messages Received, 15.8% is operating time for Sigaba Messages Sent, and 13.4% is operating time for 228-Q Messages Received.

Comments: The study is limited to 228-Q Messages Received, Sigaba Messages Received, and Sigaba Messages Sent, because less than 100 reports on the other types are available.

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