

REF ID: A56963

Mr: W. J. Friedman

S/ASST

DEPARTMENT OF DEFENSE  
NATIONAL SECURITY AGENCY  
WASHINGTON 25, D. C.

R/AE 73

~~SECRET~~

19 July 1955

DECISION ON R/AE 73

on

GULLIVER

1. On 19 July 1955 the Director, National Security Agency, approved the recommendations in RADAC R/AE 73 and forwarded the task to the Office of R/D for necessary action.

2. This decision now becomes a part of and shall be attached as a top sheet of RADAC R/AE 73.

*Constance E. Aesch*  
for  
ANN M. MARLEY  
Executive Secretary  
Research and Development  
Advisory Council

Decision on RADAC R/AE 73

~~REF ID: A66968~~  
~~CONFIDENTIAL~~  
DEPARTMENT OF DEFENSE  
NATIONAL SECURITY AGENCY  
WASHINGTON 25, D.C.

~~CONFIDENTIAL~~

Prepared: Secretariat  
Recommended: RADAC  
Date: 7 July 1955  
Approved: Director, NSA  
Date: \_\_\_\_\_

REPORT BY  
THE RESEARCH AND DEVELOPMENT ADVISORY COUNCIL  
TO DIRECTOR, NATIONAL SECURITY AGENCY

GULLIVER

PROBLEM

1. To establish a task for the design and development of a decoding device, GULLIVER.

DISCUSSION

2. Inclosures: A. Task Summary Sheet  
B. Task Background Sheet

CONCLUSION

3. It is concluded that:

a. There is a need for a decoding device, which would be an improved version of MAISIE.

RECOMMENDATIONS

4. It is recommended that:

- a. A task be established for the design and development of GULLIVER.  
b. Data contained in the inclosures be approved.

CONCURRENCES

5. The following members/alternates concur in the recommendations of this report:

R/D - Dr. S. Kullback	PROD - Mr. Dale Marston
COMSEC - Lt. Col. K. I. Davis	P/P - Mr. L. E. Shinn
COMP - Lt. Col. C. K. Milroy	LOG - Col. N. T. Kincade

6. The following observers were present: Mr. A. B. Clark, DD/RD, Mr. A. Rose, Mr. C. Schierlmann, Mr. M. M. Mathews, Mr. J. Crons, Dr. E. Callen, R/D; Mr. T. Chittenden COMSEC; Mr. J. Tasker, LOG.

*S. Kullback*

S. KULLBACK  
Chairman  
Research and Development  
Advisory Council

Task No. 353-7510

R/AE 73

~~CONFIDENTIAL~~

Approved: AETC  
 Date: 25 May 1955  
 Recommended: RADAC  
 Date: \_\_\_\_\_  
 Approved: DIRNSA  
 Date: \_\_\_\_\_

TASK REPORT BY THE ANALYTIC EQUIPMENT TECHNICAL  
 COMMITTEE TO RADAC ON GULLIVER

PROBLEM:

1. To establish a task for the design and development of a decoding device, GULLIVER.

DISCUSSION:

2. Enclosures: A. Task Summary Sheet  
 B. Task Background Sheet

CONCLUSIONS:

3. It is concluded that:

a. There is need for a decoding device, which would be an improved version of MAISIE.

RECOMMENDATIONS:

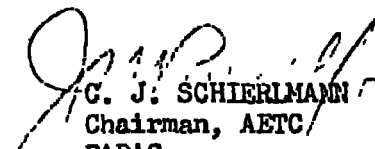
4. It is recommended that:

- a. A task be established for the design and development of GULLIVER.  
 b. Data contained in the enclosures be approved.

CONCURRENCES:

5. The following members/alternates concur:

Mr. Bowman	30
Mr. Gordon	30
Dr. Leibler	30
Mr. Hopper	06
Mr. May	06

  
 G. J. SCHIERLMANN  
 Chairman, AETC  
 RADAC

TASK NO. 353-7510

R/AE 73

~~CONFIDENTIAL~~  
REF ID: A5796A  
~~CONFIDENTIAL~~  
TASK SUMMARY SHEET

TASK NO. 353-7510 NOMENCLATURE AFSAF D145 COVER NAME GULLIVER  
TITLE Table Look-up Device  
PROJECT ALPHA SUB-PROJECT Special Problem Equipments  
SECURITY CLASSIFICATION CONFIDENTIAL PRIORITY 1-B TECHNICAL OBJECTIVE IO-9  
STARTING COMPLETION NO. & TYPE  
DATE Upon Approval TARGET DATE December 1957 OF MODELS Two Operational  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

REQUIREMENT

1. Origin of Request: NSA
2. Principal Application: Decoding, Table Look-up and printing in solution processes.
3. Reference: None.

DESCRIPTION

To develop and deliver a decoding device similar to MAISIE, having larger storage capacity, more versatile programming, additional analytic features, and greater reliability.

DEVELOPMENT PLAN

The plan consists of performing contract negotiations for the development and delivery of two GULLIVER equipments in 2½ years or less.

COST DATA

	Estimated Total Cost	Expenditures Prior to FY 56	Estimate of Expenditures		
			FY 56	FY 57	FY 58
(Man Years)	4.5	.5	1	2	1
(Labor Cost)	\$25,152	\$2704	\$5,512	\$11,224	\$5,712.
(Purchases)	None	None	None	None	None
(Contract)	\$900,000	None	\$300,000	\$500,000	\$100,000
(TOTAL COST)	\$925,152	\$2704	\$305,512	\$511,224	\$105,712

PROGRESS TO DATE

Discussions between R/D and PROD to formulate equipment functional characteristics and requirements.

Preliminary pre-contractual discussions have been held with a possible contractor.

The Purchase Description is being prepared.

PRODUCTION PLAN: None Date Prepared 25 May 1955

~~CONFIDENTIAL~~ Enclosure A

R/AE

TASK BACKGROUND SHEET

TASK NO. 353-7510

CLASSIFICATION ~~CONFIDENTIAL~~

I. Completion Date December 1957

II. Operational Requirement

A. Operational Use

1. Specific problems solved.

It shall be used as a decoding device in solution processes, and shall be capable of handling larger problems than MAISIE.

2. Relationship to associated equipments, systems and/or a broad program

Expected to be suitable for use in conjunction with the IBM 704 system and FARMER.

B. Will replace - MAISIE, Serials 1 & 2

1. Necessity - The present MAISIE equipment has excessive down time as well as limited analytic facilities and GULLIVER is planned to alleviate these shortcomings.

III. Production Cost Data - Not applicable.

Date Prepared 25 May 1955

Enclosure B

R/AE 73