

NAVAL RESEARCH LABORATORY
WASHINGTON 25, D. C.

TO BE FILLED IN BY PROGRAM RECORDS OFFICE

1. FILE NUMBER 2. PROG. RECORDS ADMIN.

4010-119/58 R.S. 0173

3. BUREAU PROBLEM NUMBER
NRL-AV-42004 - NA 442 002

4. NRL PROBLEM NUMBER
R06-29

Prepare 4 copies and send 3 to the Program Records Office.

5. FROM Code 5430 6. TO: Director of Research

7. REFERENCES
BUAER Conf ltr Aer-AV-4212 of 5 Mar 1958 (02982)

8. ENCLOSURES
Project Details for TED Project
Number NRL-AV-42004

10. ABSTRACT OF PROBLEM
To design, develop, and fabricate an
Electronic Countermeasures Intercept System,
subminiaturized, lightweight, for supersonic
vehicles.

9. SHORT TITLE OF PROBLEM
Intercept System, Lightweight,
Subminiaturized for supersonic
vehicles

MANPOWER AND COST ESTIMATES

ITEM	CURRENT HALF F/Y FROM 4-1-58 TO 6-30-58		SUCCEEDING HALF F/Y FROM TO		7/1/58 to 8-30-59		NEXT YEAR 7/1/59 to 6-30-60		
	MAN-WEEKS	COST	MAN-WEEKS	COST	MAN-WEEKS	COST	MAN-WEEKS	COST	
11. DIVISION SCIENTIFIC MANPOWER (Including accrued leave)	52	8.4			208	33.6	208	33.6	
12. SUPPORT SERVICES MANPOWER	IVB Non-IVB	20	2.7			40	5.4	40	5.4
		40	5.0			156	9.5	156	9.5
13. OVERHEAD		12.2				44.8		44.8	
14. TRAVEL AND PER DIEM		3.0				5.0		5.0	
15. MAJOR CONTRACTUAL SERVICES AND PROCUREMENTS (\$5000 and above)		70.0				80.0		80.0	
16. ROUTINE MATERIALS		10.0				10.0		10.0	
17. OTHER COSTS									
18. TOTALS		111.3				188.3		188.3	

19. SOURCE OF FUNDS	RESEARCH DIVISION ESTIMATE	INITIALS	FY 1958		FY 1959		FY 1960	
			4-18-58	WSS	BuAer	\$111,300 P.O. 14995/700 RDN.80	BuAer	\$188,300

20. SPECIFY PROBLEM(S) ON WHICH ABOVE SCIENTIFIC MAN-WEEKS WERE INDICATED ON PREVIOUS "A-1" OR "PAR" FORMS
54R06-17

If answer to any of the questions below is "yes," give detailed explanation on a separate sheet.

21. WILL THIS PROBLEM INTERFERE WITH ANY COMMITMENTS OR WITH WORK NOW IN PROGRESS
 YES NO

22. WILL ADDITIONAL PERSONNEL BE REQUIRED
 YES NO

23. WILL NRL HAVE TO PROCURE ADDITIONAL PLANT ACCOUNT EQUIPMENT
 YES NO

24. WILL ADDITIONAL SPACE AND/OR FACILITIES BE REQUIRED
 YES NO

SIGNATURES

COOPERATING DIVISION SUPERINTENDENT: [Signature]

DIVISION: [] DATE: []

COGNIZANT DIVISION SUPERINTENDENT: L. A. Gebhard

DATE: 4/10/58

DIRECTOR OF RESEARCH: []

CONTROL SYSTEMS: []

PROBLEM ACCEPTANCE REQUEST
See attached sheet for Numbers 21 and 22 above. (9)

RESEARCH & DEVELOPMENT PROJECT CARD (NEW PROJECTS)

REPORTS CONTROL SYMBOL DD-RDB(A) 49

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INSTRUCTIONS

For NRL problems the divisions will fill in items 1, 2, 6, 7, 12, 13, 17, 20, and 21. For Bureau problems the divisions will fill in items 6, 7, 13, and 17.

TYPE OF REPORT

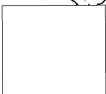
Problem Assignment Request

1. PROJECT TITLE Intercept System, Lightweight, Subminiaturized for supersonic vehicles.		2. SECURITY CLASSIFICATION CONFIDENTIAL	3. PROJECT NUMBER
6. BASIC FIELD OR SUBJECT Radio		4. INDEX NUMBER	5. REPORT DATE
7. SUB FIELD OR SUBJECT Countermeasures		7A. TECHNICAL OBJECTIVE CA 10503b	
8. COGNIZANT AGENCY	12. CONTRACTOR AND/OR LABORATORY		CONTRACT/W.O. NUMBER
9. DIRECTING AGENCY NRL	13. RELATED PROJECTS		17. TEST COMPLETION DATES
10. REQUESTING AGENCY Bureau of Aeronautics	14. DATE APPROVED		RES. Continuing
11. PARTICIPATION AND/OR COORDINATION	15. PRIORITY B		DEV. 1 Jan 1959
19.		16. MAJOR CATEGORY	TEST
20. REQUIREMENT AND/OR JUSTIFICATION There is need for a subminiaturized intercept system for use in supersonic vehicles (particularly unmanned vehicles) to obtain electronic intelligence from areas which are otherwise practically inaccessible.		OP. EVAL.	
21. BRIEF OF PROJECT AND OBJECTIVE This problem consists of (1) a study and investigation phase, to maintain familiarity with the Tri-Service efforts in the electronic countermeasures and supersonic vehicle fields, and (2) an equipment development phase, to provide equipment for use in supersonic vehicles to receive, record and transmit, upon demand, electronic intelligence intercepted in the frequency range from 50 Mc to 50 kMc. The initial effort will be centered on S-band. To accomplish the work within the limits of time and manpower, maximum use must be made of existing developments and emphasis must be placed on procurement on contract of major functional units.		FY 18. FISCAL ESTIMATES	

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Attachment to Problem Acceptance Request for Route Sheet 0173

21. Will this problem interfere with any commitments or with work now in progress:

Yes. Work on Problem 54R06-20 (BUAER EL 45008) will be temporarily suspended. It is believed this is acceptable to BUAER.

Expenditures on Problem 54R06-17 will terminate near 4-1-58. Charges against 54R06-20 will be reduced from 4-1-58 to 6-30-58 to about 20% of budgeted figure.

22. Will additional personnel be required?

Yes To accelerate this work in accordance with the wishes Of BUAER and the importance attached to this phase of reconnaissance by ONI, it is anticipated that additional personnel will be required. However, the above estimates are based on present personnel only.

*54R06-17 terminated
by BUAER 3/5/58
EL-45001 wide open
Receiver and antenna
System Project at NRL
Task postponed major, BUAER
in BUAER*

JAN 20 1958

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