

ADDRESS REPLY TO  
CHIEF OF NAVAL RESEARCH

Planning Division/ Electronics  
WASHINGTON 25, D. C.  
AND REFER TO:

NAVY DEPARTMENT  
OFFICE OF NAVAL RESEARCH  
WASHINGTON 25, D. C.



EXOS:ONR:427:WBB:jl  
EL-57

Serial No.

-5286PL

30 JAN 1947

Mr. Grote Reber  
212 W. Seminary Avenue  
Wheaton, Illinois

Dear Mr. Reber:

The Naval Research Laboratory is embarking on a study of solar radiation, and the Central Radio Propagation Laboratory is expanding its program devoted to the study of solar and cosmic noise. In view of this work now being undertaken at government laboratories, and the work already contracted for at Cornell, we do not feel that at this time we can justify the expenditure of an additional \$47,000 annually for the study of extra-terrestrial noise. A budget of the order of the one set forth in your letter of 19 August 1946 is more in line with the amount of money which we might presently devote to this type of work.

Since there is ordinarily a delay between incurring an expenditure and reimbursement by the government, it would be necessary for you to arrange for a fund to support the project while awaiting reimbursement. It would be desirable to associate yourself with some observatory or educational institution in order that they might do the necessary contract administration and furnish a revolving fund to allow operation between reimbursements.

As explained in our letter of 4 October 1946, severe restrictions have been placed on the Navy in regard to investment in buildings and motor vehicles. If you should desire to submit a budget similar to the one submitted in August, taking into account these restrictions, it would receive early consideration.

Very truly yours,

E. R. Stone

By Direction, Chief of Naval Research

CC:  
ONR:Chicago Office

B U D G E T

Salaries

Director	\$8,000
Astrophysicist	6,000
Machinist	4,500
Junior Engineer	3,500
Semi-skilled labor	2,000
Stenographer	<u>1,500</u>
Annual salaries	\$25,500

Overhead Expenses

Depreciation (\$40,000 plant @ 15%)	\$6,000
Development Supplies	
Raw material (sheet, tube, rod, etc.)	\$1,000
Purchase parts ( tubes, castings, etc)	2,000
	3,000
Maintenance Material	
Office supplies (paper, records, etc.)	\$250
Operating supplies	
Chart paper	\$700
Replacement tubes	675
Paint	125
Misc. (grease, fuses, pens and ink for recorder, etc.)	100
	<u>\$1800</u> 1600
	1,850
Truck maintenance (50 miles per day for 300 days @ 6¢ per mile)	900
Travelling expense (5 trips per year @ \$200 per trip, \$100 transportation & \$100 living expense)	1,000
Eclipse Expedition once a year (Prorata share of organized effort. One man expenses \$500 per month for 3 months plus \$1,000 equipment transportation)	2,500
Rental (leased office & laboratory space @ \$50/mo.)	600
Services	
Telephone	\$140
Electricity & Power	180
Telegraph	50
Legal fees @ 1/4% of contract	400
Auditor @ \$25 per month	300
	<u>\$1070</u> 1,070

Overhead Expenses Continued

Publications (journals, bulletins, etc,)	80
Taxes, insurance, O.A.B. (taken as 5% of labor excluding the director)	<u>875</u>
Annual Overhead	\$16,885

Summary

Direct Salaries	\$25,500
Overhead	<u>16,885</u>
Net annual charges	\$42,385
Profit @ 10%	<u>4,710</u>
Gross annual charges	\$47,095
Two year contract total price	\$94,190

Grote Reber

December 20th, 1946  
212 W. Seminary Ave.  
Wheaton, Illinois

As financial references I give:

E. H. Engstrom, Vice president  
Gary Wheaton Bank  
Wheaton, Illinois

Bertram E. Rathje, Att'y at Law  
Gary Wheaton Bank Building  
Wheaton, Illinois

## Financial Summary

At the present time the writer has on hand at Wheaton, Illinois capital equipment for cosmic static investigation and development representing a cash outlay of approximately \$11,473. Substantial engineering and labor has been applied to this equipment to bring it to its present state of usefulness. If the project were to start today from scratch and all labor to be paid for to produce equivalent end point apparatus the estimated financial outlay would be \$15,278. About two years would be necessary to complete the work already done.

The detailed program envisions two years continuous operation and development. The financial budget is as follows.

### Capital Cost

Building	\$2500
Equipment foundations	500
Equipment transportation	1200
Disassemble equipment	250
Assemble equipment	1000
Additional instruments	2000
Truck or station wagon	1500
Fence and roadwork	500
Total	<u>\$9450</u>

### Yearly Operation Expense

Salary of man in charge	\$5000
Salary of helper	2500
Material expense	1000
Total	<u>\$8500</u>

Total budget for two years work \$26,450

August 19th, 1946

Grete Reber