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DCS 67-23

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Date March 17, 1967

Reviewer:
D. L. Aron
2/4/94

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Issued to Brig. Gen. Crowson

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UNIVERSITY OF CALIFORNIA

LAWRENCE RADIATION LABORATORY
BERKELEY, CALIFORNIA 94720

March 17, 1967

DCS-67-23

Brigadier General D. L. Crowson
Director, Division of Military Application
U. S. Atomic Energy Commission
Washington, D. C. 20545

Reference: CDI Letter Haussmann to Crowson, February 24, 1967
Subject: Advanced Motion Sensor Program

Subject: Funding for an Advanced Motion Sensor Program

Dear General Crowson:

This letter is to request that DMA obtain funding from ARPA to support a research program at UC-LRL for the development of an advanced motion sensor system. A description of this mutual interest program was forwarded to you in the letter referenced above. Background discussions to define the research have been held between ARPA and the Laboratory, and ARPA is expecting this request. ARPA should be asked to provide funding for major procurements, while hardcore costs will be covered by the Laboratory's regular AEC funds. ARPA funds required for the total program are estimated at $5,000,000 as shown below (K$). Please note that funding is required as soon as possible this fiscal year to initiate the program.

FY 1967	$ 500
FY 1968	1,400
FY 1969	1,600
FY 1970	1,200
FY 1971	300
	$5,000

The program's objective is to develop an improved small inertial navigation system. Desired characteristics are a spherical inertial measurement unit of six inch diameter with accuracy an order of magnitude better than current small systems. To achieve this, it is planned to develop three complete systems with related component development, progressing from existing technology to a final advanced breadboard model. Any improvement in inertial navigation technology will have important benefits for a variety of Defense Department programs. For the AEC such a system could be coupled with a position locator and weapon disable system as part of a geographical control system for nuclear weapons.

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Presently planned FY 1967 and FY 1968 major procurements which require ARPA funding, are shown below.

Probable Vendor	Task	Amount (K$)
FY 1967		
EG&G	Testing Support	40
Litton Ind.	Inertial Guidance System	206
MIT	Development of Advanced Small Accelerometers and Gyroscopes	254
		500
FY 1968		
EG&G	Testing Support	200
Litton Ind.	Navigation System Components	100
MIT	Development of Advanced, Small Accelerometers and Gyroscopes	570
MIT	Development of Second Inertial Navigation System	530
		1,400

Sincerely,

W. B. Harford
for R. P. Connell
Business Manager

RPC:pjc

cc: E. C. Shute

bcc: R. P. Connell
D. C. Sewell
A. C. Haussmann
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M. R. Gustavson