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56-881-67
Total-
492, 816.8
L54-1025

5610-419:JHT:aer
11 October 1966

Via: Codes 5000 and 1900
Code 5600
Code 5610

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ONR Contract Nonr-5041(00)(X), justification for the extension of the fiscal support of

1. Certain additional tasks and extensions to existing tasks are now urgently required to fulfill the operational requirements being imposed on the U.S. Naval Research Laboratory in support of the Program of NRL Problem 56R06-29. Specifically, four areas of enhancement are being sought at this time:

(a) System Integration Effort? This will develop the technical solution to the multiple engineering interface problem areas between the equipment being produced at the HRB-Singer Plant and other commercial equipments which both precede and follow in the system block diagram. This effort will supply additional Engineering Drawings, simple test ^{units} ~~units~~ as well as computer services, and technical personnel to support the ~~development~~ ^{deployment} of the system overseas.

(b) System Calibration Unit:(SCU): This calibration unit will provide an overall system-performance figure-of-merit with each overseas (operational) recording of data. The goal of this "New Task" is to provide an electrical prototype of the device and to rush three (3) operational systems into the overseas sites before mid January.

(c) Immediate evaluation of the Quality Control "Software" by use of operational data is the third area of effort where the contract extension is urgently needed. This "Software" has been developed on this Contract but so far it has used only sanitized or academic data. The ultimate proof of its usefulness in the actual operational data realm.

(d) Second-Generation special purpose Receiver: This effort started over a year ago and has led to the greatest enhancement of the overall operational capability shown by any of the Tasks to date, with the design and fabrication first HRB-Singer receiver systems for use on this program. These have been deployed to two sites and on the basis of the experience gained, a second generation (improved system) is now indicated.

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This "New Task" would allow design feasibility studies to start immediately, thus hasten the early operational implementation of an improved receiving system throughout the overseas portion of this program.

2. Code 620M at ONR is aware of the general requirement for the subject increasing effort as well as the URGENCY of the Program.

3. It is estimated that this total increase in HRB-Singer effort may cost about \$70,000.00 and thus continue in the full Contractor support of this program through this most critical period of operational implementation of the Analogue and Digital Processing Systems which were developed at HRB-Singer Plant under the subject contract.

JAMES TREBLER, HEAD
SPACE TECHNOLOGY BRANCH
ELECTRONIC WARFARE DIVISION

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