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<p>*PURPOSES</p> <ol style="list-style-type: none"> FOR INFORMATION FOR APPROVAL FOR NECESSARY ACTION FOR SIGNATURE RETAIN ENCLOSURES RETAIN COPY 	<p>FROM BUWEPs to NRL</p>	<p>DIVISIONS DO NOT FILL</p>	
	<p>DATE OF MATERIAL 18 Jul 63</p>	<p>BRANCH IDENT. SYMBOL</p>	
	<p>ORIG. IDENT. SYMBOL (MAIL ROOM FILL IN) Ser 0240 RT-7042008/6521/F0190209</p>		<p>DATE MAILED</p>
	<p>COPIES REC'D 15 ENCL REC'D REG. NO. 3059855</p>		<p>FILE NO.</p>
	<p>SUBJECT WEPTASK/PROBLEM ASSIGNMENT, Weptask No. RT-7042008/6521/F0190209 - Satellite Applications of Satellites to Scientific Research in Support of Navy Research and Development Problems (U)</p>		
	<p>ROUTE SHEET PRINCIPAL OFFICER</p>		<p>R/S NO. (MAIL RM. FILL IN) 07369</p>

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WEPTASK/PROBLEM ASSIGNMENT
NAVWEPS FORM 3930/1 (REV. 12-61)

DEPARTMENT OF THE NAVY
BUREAU OF NAVAL WEAPONS
WASHINGTON 25, D.C.

See latest issue of BUWEPSINST 59 7.4
for details on completing this form.

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ADDRESSEE Director Naval Research Laboratory Washington 25, D. C.	WEPTASK NO. RT-7042008/6521/F0190209	AMEND. NO. 1
	PROBLEM ASSIGNMENT NO.	AMEND. NO.
COGNIZANT BUWEPS ENGINEER	EFFORT LEVEL Normal	
CODE 63612 RTOS-21	CLASSIFICATION OF WT/PA SECRET	

1. The WEPTASK/Problem Assignment described below is assigned in accordance with the indicated effort level and schedule. Funding authorization for WEPTASKS will be provided in separate correspondence. If this WEPTASK/Problem Assignment cannot be accomplished as assigned, advise Chief, Bureau of Naval Weapons.

2. Technical Instructions:

a. Title: Satellite Applications; Applications of Satellites to Scientific Research in Support of Navy Research and Development Problems (U)

b. Purpose of WEPTASK: To provide instructions and authority required to implement the Navy's Scientific Research Satellite Program. It establishes program schedules, target flight dates and other related instructions.

c. Background Information: This WEPTASK supercedes WEPTASK RT 7042004/6521/F01902009 to NRL, same title and cancels WEPTASK RT 7042003/6521/F01902009 (Satellite Engineering Functions Development.)

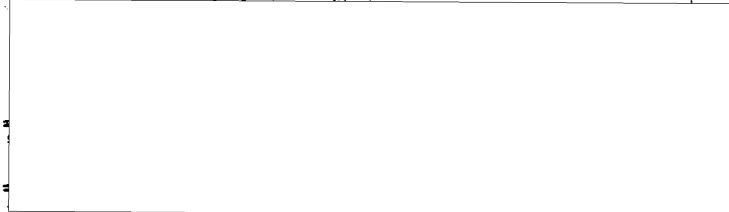
A program to design and develop small satellite payloads to be ancillary to Project 435 and other prime projects was established during 1959. To date, payloads designed to measure solar radiation in varied regions of the spectrum have been developed and flown as primary and secondary payloads. These payloads, part of a continuing Navy program of research into the effects of solar radiation on surface-to-surface communications and other electromagnetic radiations, have proved highly successful in providing much needed data.

Having commenced as a purely secondary operation, this program has evolved into a self supporting, continuing research effort. A program of two successful launch operations per year is planned to provide information supporting a thorough investigation into the total effect of solar radiation on Navy communications.

d. Detailed Requirements:

(1) Design, fabricate and conduct environmental tests of a basic scientific research satellite incorporating the following improvements:

- (a) data storage system
- (b) digitalized telemetry system
- (c) spin axis control
- (d) integration and test of ONR developed plasma pinch engine



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Detailed Requirements: (cont)

(2) Fabricate and conduct environmental tests of two flight model solar monitoring satellites as follows:

- (a) One with data storage system and NRL designed spin axis' control system.
- (b) One incorporating the ONR developed plasma pinch engine in conjunction with solar monitoring experiments.

3. Schedule: Contingent on availability of secondary payload space. The following schedule of launch operations is established as a program goal:

- a. SOLAR RADIATION VII December 1963'
- b. SOLAR RADIATION VIII June 1964

4. Reports and Documentation: A letter progress report (2 copies) shall be prepared for each calendar month and submitted by the tenth of the following month. This report shall include a summary of work in process or completed during the month involved, problems requiring action to meet objectives, funds expended to date, and planned expenditures for the next calendar month.

Also a semi-annual technical report (3 copies) shall be prepared for six month periods. The monthly letter report is not required during the month of submission for the technical report.

5. Contractual Authority: Contracts to perform all or portions of this WEPTASK are hereby authorized within the funding limitations indicated by the WEPTASK cost estimate.

6. Source and Disposition of Equipment:

- a. All equipment to be procured as required for satisfactory project progress within funding limitations.
- b. Disposition of all equipment to be determined at the completion of each experiment.

7. Aircraft Requirements: NONE

Copy to:
NAD, Crane, Indiana (1 cy)
NRL(15 cys)
R-36 (3 cys)
RT-12 (3 cys)
RT-13 (3 cys)
RTOS-21 (5 cys)

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