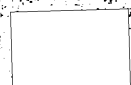


DEPARTMENT OF THE NAVY  
BUREAU OF NAVAL WEAPONS  
WASHINGTON 25, D.C.

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From: Chief, Bureau of Naval Weapons  
To: Chief, Bureau of Ships

Subj: Physical requirements for satellite launch ship laboratories;  
request for (U)

1. The FY 1969 budget includes an item for the conversion of a seaplane tender (AV) to a satellite launching ship. This ship is to have the capability of launching tactical satellites and probes using solid propellant boosters of the SCOUT/SEA SCOUT size. A variety of payloads will be launched from sea as the tactical and operational requirements demand. A Communications Satellite Payload is being developed by the Bureau of Ships.

2. The Bureau of Naval Weapons (Code RT) has undertaken the task of putting together the shipboard laboratory requirements for all the astronautic systems, in order to consolidate the needs of the various programs. When the total requirements are determined, they will be forwarded to the Bureau of Ships as design information for the satellite launch ship.

3. It is requested that the following information be transmitted to the Chief of BuWeps (RT):

- a. Laboratory space requirements for communications payload
- b. Laboratory service requirements for communications payload
  - (1) temperature humidity control
  - (2) electrical requirements (type and quantity)
  - (3) hydraulic requirements
  - (4) pneumatic demands
  - (5) electronic requirements
  - (6) specialized laboratory equipment

c. Test equipment requirements for communications payload

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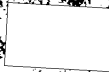
Enclosure to BuShips lit. ser. 689A-092  
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d. Launch service requirements for communications payload

- (1) umbilical connections
- (2) pre-flight services
- (3) payload accessibility

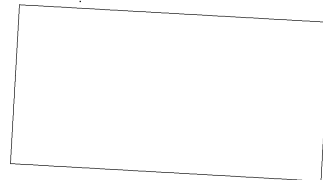
e. Payload services preparation time

f. Personnel requirements

g. Telemetry requirements during launch.

In addition, the design environmental conditions (acceleration, vibration, etc.) are requested to insure that the payload is compatible with the SCOUT/SEA SCOUT vehicle.

4. For planning purposes, it is further requested that estimates of the number of sea launches required per year and orbit requirements be forwarded by 1 August 1960.



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DEPARTMENT OF THE NAVY  
BUREAU OF SHIPS  
WASHINGTON 25, D. C.

IN REPLY REFER TO

C-9780/L<sub>2</sub>  
Ser 687A-092



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15 JUL 1960

From: Chief, Bureau of Ships  
To: Director  
U.S. Naval Research Laboratory  
Washington 25, D.C.  
Attn: Code 5420

Subj: Shipboard laboratory requirements for sea launched communications satellite, request for estimate (3)

Ref: (a) BUSHIPS Problem S-1935

Encl: (1) Copy of BUWEPS ltr RTSV-WCS:vc Ser 034094 of 24 Jun to BuShips

1. Enclosure (1) requests information to be used in the design of a satellite launch ship for SCOUT/SEA SCOUT vehicles. It is probable that such a ship would be used for launching some of the communications satellites under reference (a).
2. It is requested that consideration be given to the requests of paragraphs 3 and 4 of enclosure (1) preparatory to a conference with the Bureau of Ships project engineers early in the week of 25 July 1960.



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