

TWO-STAGE VEHICLE FOR
UNIVERSITY OF CALIFORNIA RADIATION LABORATORY

PROGRESS REPORT NO. 12

For the period between
1 October 1958 and 31 October 1958

BEST COPY AVAILABLE

Subcontract No. 108
Appendixes B, C, and D

Submitted by
COOPER DEVELOPMENT CORPORATION
Monrovia, California

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1 October 1958 to 31 October 1958

Subcontract No. 108, Appendixes B, C, and D

This informal monthly progress report is the twelfth of a series submitted in partial fulfillment of Subcontract No. 108. The information is regarded as preliminary and subject to further verification and analysis.

I. Design

Complete.

II. Manufacture and Delivery

All components for the two heads being made in accordance with the revised design have been fabricated. Assembly of the heads will be completed by 7 November.

III. Electronics

Complete.

IV. Wind Tunnel Tests

Complete.

V. Tests

The actuation of all sealing devices in the redesigned heads, as well as their ability to maintain an internal vacuum, will be tested at CDC during the week of 10 November. Drop tests, allowing the heads to impact in the water at 35 feet per second at various angles, will be conducted at Morris Dam Small Calibre Range, Azusa, California, during the same week. Flight tests are scheduled for the week of 17 November at NAMTC, Point Mugu, to evaluate the redesign under actual conditions, provided that sealing is satisfactory in the pressure and drop tests described above.

The signal strength and radiation pattern of a new antenna design will be tested in water during the week of 10 November.

VI. Prototype Firings

Disposition of the remaining rounds has not yet been decided.