

TWO-STAGE VEHICLE FOR  
UNIVERSITY OF CALIFORNIA RADIATION LABORATORY

PROGRESS REPORT NO. 13

BEST COPY AVAILABLE

For the period between  
1 November 1958 and 30 November 1958

Subcontract No. 108  
Appendixes B, C, and D

Submitted by  
COOPER DEVELOPMENT CORPORATION  
Monrovia, California

PROGRESS REPORT NO. 13

1 November 1958 to 30 November 1958

Subcontract No. 105, Appendices B, C, and D

This informal monthly progress report is the thirteenth of a series submitted in partial fulfillment of Subcontract No. 105. The information is regarded as preliminary and subject to further verification and analysis.

I. Design

Complete.

II. Manufacture and Delivery

Assembly of two heads, made in accordance with the revised design, was completed.

III. Electronics

Complete.

IV. Wind Tunnel Tests

Complete.

V. Tests

A. The modified antenna was tested at Puddingstone Dam, near Pomona, California, on 20 November 1958. A readable signal was received as far as five miles away with both ground and aircraft receivers. The antenna was submerged before starting the test, then the head was allowed to float during the test.

B. Drop tests were conducted at the Morris Dam Small Calibre Range, Azusa, California, on 22 November 1958. The two new heads were dropped 5 times each from a height of 35 feet. No parachutes were used, and no attempt was made to control the angle of impact. No water was observed in either head

at any time: The sealing was completely satisfactory. Slight damage to one head occurred when the head came to the surface under a steel barge; however, the damage was quickly repaired.

C. The two flight test rounds have been rescheduled for 2 December at NAMTC, Point Mugu. The original date of 17 November was changed due to delays in completing the preliminary antenna and sealing system tests.

#### VI. Prototype Firings

Disposition of the remaining rounds has not yet been decided.