

TWO-STAGE VEHICLE FOR
UNIVERSITY OF CALIFORNIA RADIATION LABORATORY

Progress Report No. 10

For the period between
1 August 1958 to 31 August 1958

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

Submitted by
COOPER DEVELOPMENT CORPORATION
Monrovia, California

PROGRESS REPORT NO. 10

1 August 1958 to 31 August 1958

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

This informal monthly progress report is the tenth 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

It was decided, during a conference with Dr. Fleming of UCRL, to investigate new approaches to the problem of sealing the filter-diffuser section of the ASP head. After studying the design, it was concluded that moving the O-ring from the forward end of the ball seal to the aft end of the seal would eliminate several possible sources of leakage. Slight leakage had been observed during previous tests at the rubber boot on the push-pull rod, around the wiring entries, and at the forward nose to diffuser joint. Placement of the O-ring aft of these areas prevents any water which may enter from reaching the filter.

Changes in design which were made in the field, as well as the current changes, are being incorporated in the CDC drawings.

II. Manufacture and Delivery

After a careful cost analysis, two heads will be manufactured to the new design. The heads of the 13 rounds being returned from Eniwetok are now stored at CDC; the motors are en route to Port Chicago, from where they will be shipped to CDC for storage.

III. Electronics

Complete.

IV. Wind Tunnel Tests

Complete.

V. Tests

Two flight test rounds, using the two new heads, are being scheduled to be launched at NAMTC, Pt. Mugu, during the latter part of October to prove the new design.

VI. Prototype Firings

Disposition of the remaining rounds has not yet been decided.

COST ESTIMATE SUMMARY

| | |
|--|--------------|
| 1. Cost Funds Shortage (from Exhibit A) | \$ 87,374.18 |
| 2. Additional cost of replacing 6 RTV's to JPI | 4,200.00 |
| Total Shortage | \$ 91,574.18 |
| 3. Possible Cost Savings: | |
| a. CDC to transfer 15 ASP motors from sub- contract 108 costs | \$ 22,500.00 |
| b. LOKI motors to be transferred to sub contract 108 at no charge | 7,406.00 |
| | \$ 29,906.00 |