

Route	Signed
EOL	
DC	
WBR	✓
RWR	
GWM	
WDD	
LOV	
WBH	
NOG	
RLH	
EID	
MHA	
MLM	
JJ	
GG	

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February 21, 1958

402369

R

TO: Distribution

SUBJECT: Subcontract 108 - Cooper Development Corporation

Appendices B, C and D covered costs for developing, providing and firing rockets at Hardtack. Results of experimental firings indicated that LOKI rockets would not be satisfactory as second stage units. Accordingly, arrangements have been made with JPL to obtain two RTV rocket motors for test purposes. Within the next one to three weeks, a test firing will occur, and it will be known whether or not RTV units are successful as a second stage. It appears at the moment that if they are unsuccessful, we will have to stop the program. If they are successful, the following is the best possible estimate of anticipated costs that could be developed with Cooper. As of February 19, 1958, fee has been set aside and is not included in this discussion.

Return to UC
149 Bldg. 5C

Funds available for direct charges	\$998,607.14
Costs vouchered as of January 31, 1958	482,695.27
Purchase Order commitments not yet vouchered	135,605.45
Total committed as of February 19, 1958	618,300.72
Unobligated funds as of February 19, 1958	320,306.42

Cost Estimates to Completion Using RTV Motors

- Will make 60 motor cases
- Will load 54 motors - will send 46 to EPG - will use 8 for batch tests
- Will ship 6 cases only to JPL to replace 2 RTV loaded units obtained from JPL

January 31 to February 15 - Labor plus Overhead Costs	\$ 40,000.00
RTV costs per above	100,000.00
122 LOKI rounds charged to Subcontract	41,000.00
96 have been shipped to EPG	
26 have been converted and/or fired	

EPG crew cost reserve (2 months each for 15 men)	\$ 70,000.00
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Reserve - Man hours and miscellaneous costs for final report, data analysis, including G&A and overhead	\$ 18,720.00
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Estimated Total \$ 269,720.00

Estimated unobligated balance 50,586.42

*WIP - JPL
EPG - Hardtack
Cooper Dev. Corp.*