

SUMMARY DESCRIPTION OF BALLISTIC MISSILE CONTRACTS

BY 117L WEAPON SYSTEM - ARS

As of 31 March 1958

WEAPON SYSTEM 117L - ARS

This weapons system does not follow the normal sequence as the ICBM and IREM. Lockheed is considered the prime contractor with contracts in force to date as follows:

a. AF 04(647)-97, Lockheed

The contractor will plan and conduct a program of research and development leading to the ultimate attainment of a reconnaissance system, which uses a satellite vehicle as the data-gathering medium. Lockheed will fabricate, test and deliver a satellite vehicle mock-up, propulsion ground test system, GSE, ascent guidance and control equipment, battery supply and telemetric transmitter (test).

b. AF 04(647)-181, Lockheed

This L/C provides for acceleration of 117L program using an Atlas Booster, and augments the 117L program using the Thor booster. It also provides for a physical recovery system to advance availability of reconnaissance information.

c. AF 04(647)-103, M.I.T.

This contract provides for R&D relative the successful application of an "all-inertial" navigation technique and instrumentation to the guidance and control system of WS 117L, the ARS. M.I.T. will develop and test a guidance and orbital altitude control subsystem which shall provide guidance and control signals for a satellite vehicle during all phases of flight and have it become an integral part of the weapon system.

d. AF 04(647)-80 Ramo-Wooldridge (See studies under WS107A-1)

AF 04(647)-128 Ramo-Wooldridge (See studies under WS107A-1)

AF 18(600)-1190 Ramo-Wooldridge (See studies under WS107A-1)

e. AF 04(647)-127, Ramo-Wooldridge

This is a call contract to be in effect from 1 July 1957 to 30 June 1958. Call #9 to this contract states that R-W shall perform research services for WS117L not to exceed a total of 78 MTS (Members of the technical staff) man months of effort.

WS 117L - ARS, (Cont'd)

MISCELLANEOUS DOCUMENTS IN SUPPORT OF WS 117L

<u>Document No.</u>	<u>Description of Work</u>	<u>Agency</u>
O/A 56-6	Nephanalysis studies	Cambridge R&D Center
O/A 57-4	Altitude study - MIT	WADC
O/A 57-15 (Completed)	Research in solar conversion by photovoltaic process	WADC
<u>O/A 57-16.</u>	Geophysical environmental data for 117L <i>Project 1764</i>	Cambridge R&D Center
O/A 57-17	Support of 117L by project 1763	Rome ADC
O/A 57-26	Procurement of Aerobee rockets Nike-cajon rockets for 117L	Cambridge R&D Center
O/A 57-32	Procure ballon helium and special equipment for 117L	Cambridge R&D Center
O/A 58-9	R&D Work by Eagle-Picher and Harshaw Chemical Co.	WADC
O/A 58-10	Installation and calibration of a rocket photographic aspect system	Cambridge R&D Center
O/A 58-25	R&D effort in support of 117L	Rome ADC
MIPR 57-38	Purchase of helium	Office of Naval Research
MIPR 58-54	Purchase of helium	Naval Air Station, Moffett Field, Calif
GSO 58-33	Test models in wind tunnel by BRL, Aberdeen Proving Grounds	Ch of Ord, D/A
GSO 58-39	Composition B&C-4 (50 lbs ea)	Army Ord, Joliet, Ill

MIPR military ~~interdepartmental~~ interdepartmental  
Procurement Request

O/A Obligating Authority

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During the report period a substantial number of additional subcontractors were brought into the development program. As of the close of the quarter, Lockheed's principal subcontractors were:

✓ SS/B Propulsion  
Bell Aircraft Corp.

SS/C Auxiliary Power  
Eagle-Picher Co.  
Sonotone Corporation  
Hoffman Electronics Corp.  
Engineered Magnetics

SS/D Guidance & Control  
Reeves Instrument Corp.  
Detroit Controls  
Bendix Aviation Corp.  
Minneapolis-Honeywell Regulator Co.

SS/E  
Eastman Kodak Company  
Columbia Broadcasting System  
Aero Services, Inc.  
Ampex Corp.

SS/F  
Airborne Instruments Labs  
Haller, Raymond and Brown

SS/G  
Aerojet-General Corporation  
Baird Atomics, Inc.  
Eastman Kodak Co.  
General Mills, Inc.

✓ SS/H Ground-Space Comm  
Philco Corporation  
Stanford Research Institute  
Lockheed Aircraft Services, Inc.

FACILITIES

Ralph M. Parsons Company

✓ GROUND SUPPORT EQUIPMENT

Locomotion Engineering  
Otis Elevator Co.  
Consolidated Avionics Corp.  
Standard Manufacturing Co., Inc.  
The Bufford Corp.  
Trailmobile, Inc.  
General Precision Laboratory

DOWNGRADED AT 3 YEAR INTERVALS  
DECLASSIFIED AFTER 12 YEARS.  
DOD DIR 5200.10

SS - sub-system