

COPY

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UNCLASSIFIED

SUBJECT: Utilization of Camp Cooke

WDO
WDI
(IN TURN)

FROM: WDTR

1143

Sept 12, 1956 COMMENT NO. 1
Comdr Truax/dh/1344

1. A Development Directive has been received for WS 117L. A priority of 1A and a precedence of 1-6 has been assigned. Initial funding has been received. A contract is being negotiated with Lockheed for development of the System. It is therefore desirable to make firm planning with respect to test sites as soon as possible.

2. The Camp Cooke IOC site appears to meet ideally the requirements for southerly and westerly firings outlined in WDTR memo to WDO dated 7 May 1956. Assuming confirmation of this site, WDTR would like concurrence by WDO and WDI in the following:

a. The basic principle of joint 107A-117L use of land and base facilities at Camp Cooke.

b. Use of guidance site number 4 and its associated launchers on a minimum interference interim basis by WS 117L beginning early in 1959 for westerly firings only.

c. Use of the southern launch facility A, in conjunction with guidance site number 4 for overflow WS 117L workload on a longer term basis. This combination will give WS 117L the ability to launch in the southwest quadrant for operational firings.

d. Construction of an independent WS 117L launch complex, probably at the extreme southern end of the Camp Cooke area using funds requested for FY 58.

3. It is desired to determine what modifications or additions to the facilities currently being planned would be required to make these facilities usable for WS 117L purposes. For this purpose, meetings between R-W, Lockheed and Holmes and Narver are being scheduled (in accordance with verbal agreement with WDIO). When the nature of the modifications have been determined, and an estimate made of the cost and probably delays that would result if the modifications were to be incorporated, WDTR will consult with WDO and WDI to determine a mutually acceptable course of action.

Did not see Quarles say "No. 2" at Camp Cooke.

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WDTR 56-140

[REDACTED] [REDACTED]

4. It is requested that WDTR be advised of meetings or deadline action dates which would affect the WS 117L program.

/s/ Frederic C. E. Oder
FREDERIC C. E. ODER
Lt Colonel, USAF
Assistant for WS 117L
Technical Operations

COPY

SUBJECT: Utilization of Camp Cooke

TO: WDTR THRU: WDI FROM: WDO

DATE: 17 Sep 56 COMMENT NO. 2
Col Sheppard/bs/540

1. WDO has tacitly visualized and in so far as possible (due to our limited) knowledge about 117L program) provided during planning for the utilization of Camp Cooke generally as outlined in Comment No. 1.

2. Currently I have designated Lt Col Lyster, in his capacity as one of the senior members of WDO rather than Chief of WDOM, to lead the preparation of a complete, standard operations order for directing the phased activation of Camp Cooke in all its aspects. I expect that pertinent sections of WDT, WDS and WDI as well as WDO offices will prepare or assist in the preparation of the standard annexes and any special annexes required. He is now preparing correspondence to WDT, WDS and WDI which will initiate action in detail. WDTR should contact him prior to completion of the draft of this correspondence, to insure that 117L aspects are included.

3. It is urgent that activities or resources not directly connected with the technical operation of the 117L activities at Cooke but which are required in operations, logistic, personnel or general administrative support be rapidly identified so that proper attention is given them. In this connection WDTR should be prepared to nominate a representative to participate fully in the generation of the operations order.

SIGNED

WILLIAM A. SHEPPARD
Colonel, USAF
Deputy Commander
Plans and Operations

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WDTR 56-140

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SUBJECT: Utilization of Camp Cooke

TO: WDTR FROM WDI DATE: 19 Sept 56

COMMENT NO. 3
Lt Col V.L.Hastings/hd

1. Ref paragraph 1a of Comment 1, Basic use of Camp Cooke is programmed, facilities-wise, for WS 107A - 315A. Both of these system requirements must, therefore, be considered in proposed utilization by 117L.

2. Comments as to joint use of launch facilities by 117L are as follows:

a. Launch/guidance Site No. 4 is the only complex for which construction is scheduled to start in FY 57. Completion will be early in Calendar 1959.

b. Construction of the southern launch facility, (Site No. 1) was purposely scheduled to follow the facility at Site No. 4 to permit a final evaluation of WS 117L requirement for a multiple use launch facility.

3. Construction of an independent 117L launch complex at the extreme southern end of Cooke may be influenced by a requirement presented by the Navy on 28 Aug 1956 to the OSD Ballistic Missiles Committee, for use of full area south of Site No. 1.

4. Any modifications required by 117L for use of Site No. 4 must be definitized not later than 1 October 1956 if construction completion dates are to be met as scheduled. The architect-engineer is presently preparing preliminary design of this facility which will receive review and approval by WDD/R-W/ Contractors during period 15-30 October. To insure the best multiple use launch complex, it is recommended that the 117L requirements be included in the second launch complex scheduled for start of construction in early FY 1958.

5. The WDI representative for contact on the utilization of facilities at Camp Cooke is Capt Sam H. Wood.

SIGNED

VERNON L. HASTINGS
Lt Colonel, USAF
Assistant for IOC

[REDACTED]

[REDACTED]

WDTR 56-140

COPY

SUBJECT: Utilization of Camp Cooke

TO: WDI

FROM: WDTR

DATE: 4 Oct 56 COMMENT NO. 4
Lt Herther/eh/1344

1. Reference paragraph 4 of Comment No. 3, WS 117L requirements for consideration in Camp Cooke ICC Site No. 4 planning are inclosed. These requirements are those which can be foreseen by Lockheed Aircraft Corporation and WDTR as of the moment, but it is realized that, due to the rapid change of detail plans that is currently underway by your architect-engineer, continuous Holmes and Narver contact by Lockheed and WDTR will be required to insure the best multiple use of this site.

2. The WDTR representative for contact on WS 117L use of Camp Cooke is 1/Lt. John C. Herther.

1 Incl
1 copy Key Items in WS 117L
IOC Planning, 4 pages (S)

copy furnished:
WDO

/s/ R. C. Truax, Commander, USN
for FREDERIC C. E. ODER
Lt Colonel, USAF
Assistant for WS 117L
Technical Operations

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Attachment "B"

WDTR 56-140

WDIX

2 May 1957

MEMO TO: Colonel Terhune

SUBJECT: (U) Modification of Launch Stands at AFMPC for 117L

1. Reference your meeting with Col Oder on Wednesday, 24 Apr 57 re above subject in which Col Oder expressed concern that modifications of stands 11 and 13 might delay BOB of these stands to such an extent that test programs now scheduled for 11 and 13 might have to be shifted to 12 and 14. As requested Majors Zelanka and Collier have investigated this matter and reach the following conclusions based on information available at this time.

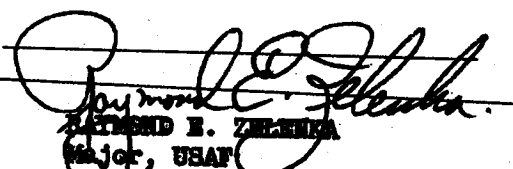
a. The 107A-1 program office is not concerned that 12 and 14 will in any way be affected by delays in 11 and 13.


b. The problem is a continuing one which requires continuous monitoring to be sure that most recent developments have not changed the situation as indicated in (a) above.

c. After the Corps of Engineers contract for the transfer rooms on launch complexes 11 and 13 is awarded, a better evaluation can be made.

d. 117L plans should proceed on the premise that down time for stands 12 and 14 is not materially changed and that necessary modification to accommodate the 117L can be accomplished in this period.

2. We will continue to monitor events in this area and will advise you immediately of any significant changes.


EDMUND E. ZELANKA
Major, USAF
Project Officer
WS-117L


ROBERT B. COLLIER
Major, USAF
Spec. Asst. to Dep. Cmdr.
Weapon Systems

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L - Apr - Jun 58, pp 1-1, 1-2

File as of 16 Jul 57
the DP is not
available

DESCRIPTION OF PLANNED PROGRAM

PROGRAM PLANNING

The present Sentry Program is based on the System Development Plan, Advanced Reconnaissance System, WS-117L (WD - 03076 b), dated 16 July 1957, as modified by reprogramming directives issued in January and March, 1958.

The January reprogramming provided for the flight testing of Sentry/Atlas satellites on a one-per-month basis starting in June 1959, and for the acceleration of the Pioneer Visual and Pioneer Ferret programs by approximately one year. It also introduced a new program, identified as Program IIA, in order to provide for use of the Thor IREM as a booster. A reprogramming directive issued on 10 March 1958 by AFEMD instructed LMSD to: (1) prepare a plan for acceleration of the basic WS-117L Program through the use of Sentry/Thor flights for early tests of components, and to incorporate into the plan the concept of recoverable capsule flights for aeromedical research purposes, and (2) re-orient the Sentry/Thor flight program so that all flights will be launched from Cooke Air Force Base, commencing with a first flight in November 1958.

A summary Development Program which reflects this reprogramming is shown in Figure 1-1.

Sentry Program Objectives

A summary of the flight test objectives for Programs I, II, IIA and III is as follows:

Program I. Launch of nine Sentry/Atlas vehicles from AFMTC (one each month from June 1959 through February 1960) into a low-latitude orbit at an altitude of 300 s mi for flight testing visual, ferret, and infrared reconnaissance payload components and, ultimately, subsystem.

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Program II. Launch of five Sentry/Atlas vehicles from Cooke AFB (one every two months from March through November 1960) into a Polar orbit at 300 s mi for Pioneer visual reconnaissance of Soviet-bloc areas of interest, with a ground resolution of 100 feet and a locational accuracy of one mile.

Program IIA. Launch of 10 Sentry/Thor vehicles from Cooke AFB (one every month from November 1958 through August 1959) into a high latitude orbit at an altitude from 160 s mi to 240 s mi for engineering flight testing to attain orbital capability, develop recovery techniques and carry out biomedical experiments. A detailed listing of the individual flight objectives is presented by Figure 1-2.

Program III. Launch of five Sentry/Atlas vehicles from Cooke AFB (one every two months from April through December 1960) into a Polar orbit at an altitude of 300 s mi for Pioneer ferret reconnaissance of electromagnetic emissions from equipments in Soviet-bloc territories.

The key milestones for the overall Sentry program, the subsystems, and support functions are presented in Figures 1-3 to 1-21.

WDR

JUL 9 1957

MEMORANDUM FOR COLONEL TERHUNE

SUBJECT: WS 117L Military Construction Program - FY 59

1. The WS 117L FY 59 Military Construction Program which was handcarried to Baltimore, Maryland on 1 July 57 was modified by Hq ARDC (RDSI) as follows:

a. \$50,000 increase was added to the sites at Hawaii and South Central U. S. stations for the possible acquisition of real estate.

b. A lump sum of \$500,000 was added for the modification of facilities at AFMTC for WS 117L.

These changes were made on the advice of Mr. Diaz and Mr. Teppen of the Installations Plans group of RDSI. The total increase of \$600,000 made to total FY 59 MCP for WS 117L \$8,500,000.

2. Copies of the rewritten AF Form 161 will be mailed to AFMTC by RDSIP.

cc: WDI - Col. Lechard

[Signature]
FREDERIC C. K. ODEB
Colonel, USAF
Director, WS 117L

[Handwritten initials]

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WDTR

MEMORANDUM FOR COLONEL TERHUNE

JUL 22 1957

SUBJECT: Site Selection - WS 117L

1. Per our discussion on 18 July of the above subject, submitted herewith is a proposed plan of action to accomplish the surveys "in-house". Sites which must be selected at this time are: Northwest, Northeast and South Central tracking and data stations plus the Hawaii tracking station (although the S. Central and Hawaii are the only ones in the FY59 MCP the other sites are so technically interrelated that they must be also selected). By taking the "due date" of the final selection (set by Hq USAF as 1 Jan 58) and working back the time required for initiation of the various steps has been determined. The time table could go as follows:

a. 1-21 Aug 57 - Intensive map exercise to establish those sites which must be visited before they can be accepted or eliminated. Most of the necessary plans (base lay out and master plans) are available; however, no master plans are available for Hawaii stations.

b. 22 Aug 57 - Initiate a request to Colonel Banks, AFCIE, for permission for the AFEMD team to visit those sites selected as a result of 1a, above.

c. 2-13 Sept. 57 - Team visits ZI installations

d. 23-27 Sept 57 - Team visits Hawaii installations

e. 7 Oct. 57 - Initiate request to AMC for electronic surveys required. Although a given survey should take less than six (6) weeks there will be more than one required. The time required may also be lengthened by inclement weather expected during this time of year.

f. 23 Dec 57 - Initiate action to Hq USAF nominating final sites.

2. There are a few disadvantages coupled with doing the site selection survey "in-house".

a. Hq USAF, by not participating, will have less first hand knowledge of the care taken and will probably require more "selling" than would otherwise be the case.

b. Ultimately the sites will require a high capacity communications link. Participation by AMC representatives would make this aspect of the siting more effective.

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WDTR 57-237

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3. For the reasons we discussed, however, the "in-house" methods advantages, at this time, outweigh the disadvantages.

4. We are studying in some detail the problems associated with accomplishing the functions planned for the S. Central site on a temporary initial basis at Cooke AFB. At first estimate such a step appears feasible if absolutely necessary; however, this would be costly both as to money and time.

5. I suggest that the course of action proposed in par 1, above, be discussed by you and me with Colonel Leonhard as soon as possible. If mutually acceptable authority to proceed plus commitment of WDI and aircraft support (for the survey) is requested.


FREDERIC C. E. ODEH
Colonel, USAF
Director, WS 117L

WDTR 57-237

[REDACTED]

[REDACTED]

[REDACTED]

WDTR

MEMORANDUM FOR COLONEL TERHUNE

SEP 24 1957

SUBJECT: Site Selection, WS 117L

1. Reference WDTR Memo "Site Selection 117L", 22 July 57. ✓
During our discussions concerning WS 117L facilities requirements and site selection for WS 117L, you proposed that we look at the feasibility of using Cooke Air Force Base rather than the proposed South Central station as the R&D data read-out station. We, together with IMSD, have made a study of this solution with the following results.

a. Analysis of the tracking system has demonstrated the need for an improved tracking contact capability during the first pass of an orbital flight to accurately predict subsequent orbit paths. In order to adequately accomplish acquisition on the first pass, the tracking radar must see the vehicle at an elevation of 10 or more degrees for at least two minutes. This means that the circle of coverage for the station accomplishing initial acquisition is materially reduced for the first pass. *Explains*

b. As previously planned, the South Central station would serve as a tracking station for the low latitude test flights of Program I, as well as, an operational station. In this role the station was restricted to latitudes south of 40° N. latitude to accomplish both of these missions. The early activation of the Cooke Air Force Base to accomplish the R&D function of Phase I would remove the latitude restriction on the South Central station and allow freedom of choice of northern location with a more nearly optimum operational capability. It would also permit the delay of the three U. S. Operational Stations until the FY 60 MCP.

c. Detailed analysis of orbital characteristics of both AFMTC and IOC launched low-latitude orbits has led us to the conclusion that Cooke Air Force Base would be a more efficient and less costly test data acquisition station for the following reasons:

(1) Cooke has approximately double the contact capabilities on the first few passes of low latitude orbits launched from AFMTC or Cooke. Over a large number of passes the contact time of each station integrates to quantities which are approximately equal. But, on test flights, as much contact time as possible on early passes is desirable. Northward and/or eastward movement of the South Central station further decreases contact time. Southward movement, to Brownsville, Texas, increases contact time.

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and makes it approximately equal to that of Cooke Air Force Base. However, this southward movement of the South Central station would compromise its utility as an operational station.

(2) It was originally planned that there would be a complete complex of ground equipment at Cooke Air Force Base except the data read-out equipment. Therefore, considerable savings in the early program accrue if a complete test complex of ground equipment is placed at Cooke Air Force Base only. In addition, no personnel would be required at the South Central station during this early period.

(3) The site selection, construction and activation of the South Central station would be delayed.

(4) Objectives of the operational and test stations would not be compromised. Compromise of objectives results in a less optimum location for either test or operational usage.

d. This approach is a more conservative and cautious approach to the facilities problem, and would provide for design changes in the brick and mortar as required by the experience gained in the R&D facilities at Cooke.

2. There are several disadvantages to delaying the installation of a South Central station and including data read-out at Cooke Air Force Base. These are:

a. The delay of the South Central station will reduce the total tracking and telemetry capability during the R&D phase of the program. Tracking and telemetry capability was originally planned for Station [REDACTED] on the AFMTC Range, Hawaii, Cooke AFB and the South Central station. This will reduce the number of tracking and telemetry contacts during the first few passes.

b. An "Operational Type" facility will not be available for training of data read-out and analysis crews. This function will now have to be performed at Cooke Air Force Base.

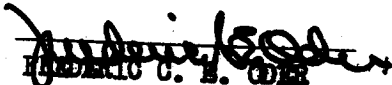
c. There will be no ground-to-ground communications systems experience in the early R&D phase to obtain orbital computation smoothing as was planned between Cooke and the South Central station.

d. Although savings accrue in the early phase of the R&D program, the long range facilities and equipment costs will be greater.

[REDACTED]

3. As a result of the above analysis and an evaluation of the advantages and disadvantages, it has been concluded that the FY 59 MCP should be modified to include R&D facilities at the following stations only: AFMTC and down range, Cooke Air Force Base, and the Hawaiian Islands. Plans are being made accordingly to use Cooke Air Force Base rather than a South Central U. S. Operational Station as a Test Data Acquisition Station.

4. Site selection in the Hawaiian Island group should be initiated internally so that a recommended site could be included in the detailed project folders for each facility site. The Hawaiian site is the only "site selection" required for the FY 59 MCP. Your approval of the approach outlined above is requested.


FREDERICK C. H. OLER
Colonel, USAF
Director, WS 117L

[REDACTED]

WDTR

NOV - 6 1957

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MEMORANDUM FOR COLONEL TERHUNE

SUBJECT: "WS 117L Facilities"

1. Reference telephone call from Lt. Col. D. W. Campbell . AFOIE-PS on 5 November '57 and WDTR Memo 31 Oct. '57 subject the same as above, specifically paragraph 2. After Lt. Col. Campbell returned to Washington, D. C., and discussed the WS 117L Hawaiian siting problem with his superiors, he determined that the siting of the Hawaiian station was not within the responsibility of AFOIE-PS. This responsibility rests with the Major Command needing the facility and the Theater Commander of the overseas area, in this case probably FFAF or CINGPAC. Clearance into FFAF and other DOD installations in the Hawaiian Islands will have to be arranged by AFEMD, Hq ARDC as will the transportation required.

2. Col. Campbell is continuing to gather the information on all Air Force other DOD and government owned or controlled land in the Islands. This data should be available to AFEMD in the near future.

F. C. E. ODER
FREDERIC C. E. ODER
Colonel, USAF
Director, WS 117L

*cy returned to
Oder (Trux) w/note
"Please keep me
advised of our actions
on this area prior
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WDTR 57-390

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WDTR

NOV 19 1957

MEMORANDUM FOR COLONEL TERHUNE


SUBJECT: Plans for WS 117L Site Selection

1. In accordance with your note of 8 November with reference to WS 117L site selection in the Hawaiian Islands, the following steps are under way or planned.

a. Col. Campbell (AFOIC-PS) Headquarters, USAF, is assembling data on all Federally owned or controlled property in the Hawaiian Islands. This step should be completed this week.

b. Lt. Col. Swanke, WDI, plans to go to Washington, D.C. the week of 18 November to accomplish the following: (1) pick up the data assembled in AFOIE and (2) make arrangements for the clearance of a small group to visit CINCPAC and FFAF Hqs. to acquaint them with the 117L requirements and obtain their assistance. The group that will go on this trip includes 1 member from WDT, WDI, IAC, Philco and Parsons. This trip will be scheduled as soon as possible.

2. The purpose of this trip will be more exploratory in nature rather than detailed site selection. NO BMD commitments will be made.


FREDERICK C. E. OLER
Colonel, USAF
Director, WS 117L




COPY


23 NOVEMBER 1957

TO COMDR AFBMD ARDC INGLEWOOD CALIF
COMDR AFBMO AMC INGLEWOOD CALIF
INFO: COMDR ATC RANDOLPH AFB TEXAS
COMDR AFMTC PATRICK AFB FLA
COMDR ARDC BALTIMORE MD
COMDR AMC WP AFB OHIO
CINC SAC OFFUTT AFB NEBR

~~/SECRET/~~ CITE AF CGM 53147. DEPARTMENT OF DEFENSE APPROVED THIS DATE THE AIR FORCE REQUIREMENT FOR PEACE TIME ICBM/IRBM LAUNCHES FROM COOKE AFB. THIS APPROVAL INCLUDES REMOVAL OF OSD RESTRICTIONS ON ITEM 44.5.2 LAUNCH CONTROL AND SAFETY. YOU ARE HEREBY DIRECTED TO PROCEED WITH YOUR PLAN AS GENERALLY OUTLINED IN 10 OCT 57 COMBINED AFBMD-SAC-AFMTC STUDY WDDOS-57-49 FOR PEACE TIME SYSTEM EXERCISES FROM COOKE. APPROPRIATE ACTION WILL BE TAKEN BY THIS HQS TO CONCLUDE THE JOINT AIR FORCE/NAVY AGREEMENT ON COOKE-MUGU RANGE OPERATIONS AT THE EARLIEST POSSIBLE DATE. NAVY ACCEPTANCE INDICATED IN PRELIMINARY JOINT MEETING 21 NOV 57.

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WDSSAT-57-852

WDTR

DEC 6 1957

MEMORANDUM FOR THE RECORD

SUBJECT: 117L Preliminary Site Selection Conference, Hawaii

1. Purpose of the conference was to establish an Agenda of the visit of the 117L group to Hawaii, and assign responsibilities of each member of the party.

2. Those in attendance were:

- * Lt. Colonel Q. A. Riepe - WDTR
- * Major J. W. Everhart - WDID
- Mr. E. Burciaga - WBID
- Mr. G. W. Brandt - Parsons Co.
- Mr. J. Gran - Parsons Co.
- * Mr. R. C. Kelly - Parsons Co.
- Mr. E. S. Dean - LAG/MSD
- * Mr. R. D. King - LAG/MSD
- * Mr. D. B. McKey - Philco Corp.

Those starred will be members of the team on the trip.

3. Lt. Col. Riepe and Major Everhart will arrive in Hawaii at 0200, Monday morning. Monday will be spent setting up appointments with the proper Air Installations group of Pacific AF and Sea Frontier of CINCPac. Staff. A series of short briefings have been assigned to the members of the group to inform the Pacific AF and CINCPAC Installations people of the 117L requirements. These are:

- a. Brief description of the 117L System - Lt Col Riepe - WDTR
- b. Requirement, criteria and purpose of the Hawaiian Site - Mr. Ralph King - LAG/MSD
- c. Technical Performance - Limitations of the Hawaiian Site Mr. Dixie McKey, Philco Corp.
- d. Typical Tracking Station design layout and design limitations and objectives, Mr. R. P. Jelly - The Ralph Parsons Co.
- e. How the AFMSB facilities programming is accomplished, what we want from Pacific AF and CINCPAC. Schedule of events leading to an operational tracking station. Major John Everhart - WDID.

4. A map survey of the Hawaiian Islands by The Ralph M. Parsons Company has shown that from a geometrical standpoint alone there are a very minimum of locations in Hawaii that will satisfy the Site Selection Criteria generated by Philco and LAG/MSD. It was agreed that this criteria is accepted as being the ideal situation only. LAG/MSD and Philco are aware that parts of the criteria can be compromised and

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what it will cost in operational effectiveness of the Test Tracking station.

5. The ultimate objective of this trip is to locate areas for siting the 117L tracking station in the Hawaiian Islands that are acceptable from the standpoint of land availability, geometrically and geographically satisfies the selection criteria with compromises, and is not obviously in violation to the electronic interference criteria. These sites will be further studied by IAC, Philco and the Parsons Company for a more detailed siting survey prior to the recommendation of commitment to a specific site.

Quentin A. Riepe

QUENTIN A. RIEPE
Lt. Colonel, USAF
WS 117L Office

[REDACTED]

WDTR

MEMORANDUM FOR COLONEL FERRINE

DEC 11 1957

SUBJECT: Status of 117L Facilities

1. Facilities planning for WS 117L are presently being planned on the basis of the following decision:

a. The first launching from AFMTC will occur from launch complex # 14 in June 1959. An agreement has been reached with WDTC which allows WS 117L use of launch complex # 14 from May through December 1959. A maximum of four launches will be scheduled during the period all of which will be orbital in nature. These launches will require tracking and telemetry equipment at Hawaii and Cooke (TDM-18 modified) to receive full use of these orbital vehicles.

*Doesn't
? Sound
like
much of a
hurry.*

b. The first WS 117L launch at Cooke will occur the first quarter of 1960 (March) from a WS 117L launcher constructed adjacent to complex 65-1 and utilizing the G. E. Mod II guidance equipment at that site. The launcher and probably a minimum blockhouse will be oriented and sited to provide maximum utility to 117L and use of existing services and equipment. A second 117L launcher may be constructed later if 117L is accelerated .

2. The following decisions need to be made:

a. Siting and orientation of the WS 117L launch stand with respect to other 65-1 stands and facilities, particularly the G. E. Mod II guidance.

b. Type of launcher to be built, wet or dry.

c. The feasibility and desirability of joint use of the 65-1 blockhouse, or the construction of a new one.

d. Use of RDM and MAB now under construction for 117L operations for that part that involves the SM-65. If not feasible the number and size of buildings required.

e. Sites for tracking stations at Cooke and Hawaii.

3. Action that has been taken or is planned by WDTR and WDI in conjunction with the 117L facilities problem.

a. Support and data requirements for the tests to be conducted at AFMTC are currently being submitted to the Patrick Base by MITF. Technical modifications and additions to the launch complex (service towers, umbilical mast, etc.) are under design by IMSD and/or subcontractors. All of these efforts are being completely coordinated with WDTR, WDTC and WDI.

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WDTR 57-456

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b. A memorandum from Colonel Terhune to Colonel Leonhard (WDI) has been written outlining the approach to the WS 117L launch complex at Cooke. This memo recommends the construction of a separate launcher and blockhouse.

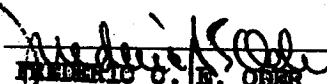
c. WDO has been requested to outline the amount of assistance they can commit to the WS 117L program in the areas of receiving, inspection, maintenance, assembly, checkout, erection and launch of the SM-65 portion of the 117L system. This will determine the requirement for new RIM, MAB, construction and the need for training 117L contractor personnel to receive, inspect, maintain, etc. through launch.

d. Representatives from WDER, WDIO, WDID, IAC/MSD, Philco and The Ralph M. Parsons Company visited Cooke AFB 25 November 1957. The group, with the assistance of Colonel Lyster, Colonel Daughton, and Major Stringer toured the 65-1 complex and the Northeastern part of the base. Two feasible sights for the 117L tracking station at Cooke were selected. IAC, Parsons, and Philco are conducting further survey of these sites to determine their suitability. WDER, WDID is preparing a paper for the Cooke Installations Board pinpointing the site selected and requesting the Board's consideration.

e. A party, consisting of representatives from WDER, WDI, IAC, Philco and Parsons are visiting Hawaii the week of 9 December. The purpose of this trip is to acquaint the PAC AF of the 117L requirements in the Hawaiian Islands, and gather as much data as possible on locations suitable for a 117L tracking station.

4. Siting of facilities at Cooke and Hawaii will not require a formally constructed AF selection board. However, soon after 1 Jan. 58 a formal Site Selection Board should be convened to select the U. S. data and readout stations. The representation on this Board will be determined by the Preliminary Operational Concept for 117L to be published by Hq USAF on 6 December according to unofficial information received from AFQOP-OCR.

5. Design objectives and typical site plot plans including single line drawings have been drawn up by Parsons for the tracking stations. Preliminary definitive plans for these typical stations are to be completed by 15 December 1957. Detailed site adaption and construction drawings will be made as soon as the sites for the tracking stations are selected.


FREDERICK C. E. OBER
Colonel, USAF
Director, WS 117L

DEC 17 57

PRIORITY

COMDR, BMD, INGLEWOOD, CALIFORNIA

COMDR, ARDC
BALTIMORE 3, MARYLAND

SECRET FROM WDTR 12-7-E FOR W. P. JASTREMSKI RDSIP
PART I PD IN ACCORDANCE WITH YOUR TELEPHONE REQUEST OF 16 DECEMBER
1957 THE FOLLOWING INFORMATION IS SUBMITTED WITH REFERENCE TO WS 117L
P-300 PROGRAM ACCELERATION PD A TOTAL OF 13.5 MILLION P-300 FUNDS WILL
BE REQUIRED IN FY 58 PD THESE ARE BROKEN DOWN AS FOLLOWS. CLN
8.5 MILLION DOLLARS MOVED FORWARD TO FY 58 FROM THE CURRENT FY 59
MCP PD 5.0 MILLION DOLLARS ADDITIONAL TO PROVIDE A NEW LAUNCH
FACILITY AT COOKE AIR FORCE BASE FOR WS 117L PD PART II PD THE FY 59
MCP ASSOCIATED WITH THE FY 58 PROGRAM OUTLINED IN PART I ABOVE WILL BE
13.0 MILLION DOLLARS TO CONSTRUCT FACILITIES PREVIOUSLY PROGRAMMED IN
FUTURE YEARS PD PART III PD THE TOTAL PROGRAM FACILITY REQUIREMENTS
FOR 117L WILL PROBABLY NOT EXCEED THE TOTALS SHOWN IN THE WS 117L
DEVELOPMENT PLAN CMM 16 JULY 1957 CMM HOWEVER CMM THEY WILL BE REQUIRED
EARLIER PD

WDTR DOWNGRADED AT 12 YEAR
INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

WDTR 57-467

17
DEC 1957

Lt Col Quanten A. Riepe/iz
2533

1 1

FREDERIC C. E. ODER
Colonel, USAF
Director, WS 117L

SECRET

WRE

12 February 1958

SUBJECT: Apportionment of Funds to Support Revised
WS-117L Development Plan

THRU: Commander
Air Research and Development Command
Attn: RDCM
Andrews Air Force Base
Washington 25, D. C.

TO: Director of Installations
Headquarters, USAF
Attn: AFOSB
Washington 25, D. C.

1. Acceleration of the WS-117L program requires the provision of necessary facilities on a highly compressed acquisition schedule. Because these facilities are pacing in nature, priority funding action must be taken to preclude any delay in the construction effort.
2. Facility requirements for this accelerated program are set forth in the Facilities Annex to the Revised WS-117L Development Plan which is identified as Management Report No. 6 (22 Jan 58) in accordance with ARDC Manual 88-4. A copy of this document is attached as Inclosure #1. It should be noted that the dates of construction contract award for the various line items in the revised facility annex are significantly advanced over the dates specified in the former development plan dated 16 July 1957.
3. It is currently intended that the Revised WS-117L Development Plan will be hand-carried to ARDC and USAF on or before 17 February. The attached copy is submitted in advance in order that necessary funds can be expeditiously apportioned as specified in the Facilities Annex. The supporting Forms 161 are attached as Inclosure #2.

When inclosures are withdrawn the
classification of this correspondence
will be downgraded to Unclass
in accordance with AFR 205-1.

WREX-44-4
07 of 070

AFBMD (ARDC), WSI, Subj: Apportionment of Funds to Support Rev. WS-117L Dev. Plan

4. For the facilities at AFMTC, it is contemplated that design and modification will be accomplished by the Jacksonville District Engineer. For the remaining items in the program, it is intended that design will be accomplished by AFBMD and that construction will be undertaken by the cognizant District Engineer or Public Works Officer pursuant to the provisions of AFIR Bulletin SP-1 (Revised), dated 27 March 1957.

5. The revised WS-117L Facilities Annex represents the minimum MCP facilities required to support an accelerated effort in this program. Requirements have been minimized on the premise that necessary installations will be sited on, or adjacent to, active government stations which will obviate the need for support facilities.

6. The recent action of the President affording the WS-117L equal national priority with the IC and IRLM's emphasizes the urgency associated with acceleration of this program. Consistent with this priority, it is requested that immediate action be taken to apportion the necessary funds in accordance with the requirements presented in the Facilities Annex of the Revised WS-117L Development Plan.

2 Incls

1. Rev. WS-117L Dev. Plan
(Mgt Rpt #0, 22 Jan 58)
10 cys (WD-58-00522)
2. Forms 161, 10 cys
(WDIR-58-6)

WILLIAM E. LEONARD
Colonel, USAF
Assistant for Installations

When inclosures are withdrawn the classification of this correspondence will be downgraded to...
in accordance with AFR 205-1.

cc: WIP
WDP ✓

WDX-58-4

[REDACTED]

[REDACTED]

DEPARTMENT OF THE AIR FORCE
AIR FORCE BALLISTIC MISSILE COMMITTEE
WASHINGTON 25, D. C.

Handwritten initials/signature

AFCGM Cont, #581249

AFBMC 1/16

14 March 1958

MINUTES OF SIXTEENTH MEETING
AIR FORCE BALLISTIC MISSILE COMMITTEE
Held in Room 4C-1052, The Pentagon

Present:

Members:

Hon James H. Douglas, Secretary of the Air Force
Hon Lyle S. Garlock, Asst Secy (Fin Mgmt)
Hon Dudley C. Sharp, Asst Secy (Materiel)
General Curtis E. LeMay (Vice Chief of Staff)
Maj Gen Charles M. McCorkle (Asst C/S (GM))

Staff:

Col R. E. Soper, Secretary, AF-BMC
Col A. E. Krieger, Alternate Secretary, AF-BMC

Others

Present:

SAFUS

Hon M. A. MacIntyre
Col R. F. Burnham

OSAF

Mr. W. Weitzen
Mr. D. L. Jackson

AFCIG

L/C G. W. Wischmann

AFGIN

M/Gen J. H. Walsh
Col R. S. Stewart
L/C D. M. Adkins
L/C R. D. Kemp
Maj C. E. Giraud

AFABF

Mr. L. C. Meyer

SAFIE

Mr. Jack Reilly
Mr. Geo. Robinson

AFCGM

B/Gen R. E. Greer
Col J. J. Courtney
Major E. Istvan

AFCAD

Col S. M. Porter

AFXDC

M/Gen H. C. Donnelly
B/Gen J. D. Donohew
B/Gen H. T. Wheless
Col R. C. Richardson
L/C B. Gunderson
L/C W. W. Eakins
Maj R. E. Angel

AFPDC

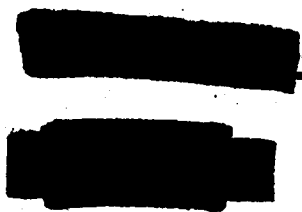
Maj E. Wilson

DOWNGRADED AT 12 YEAR
INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

[REDACTED]

WD 58-01928

[REDACTED]



Handwritten initials/signature

MINUTES OF SIXTEENTH MEETING (Contd)

Others Present:

AFDDC

- M/Gen J. S. Mills
- M/Gen L. S. Stranathan
- B/Gen H. A. Boushey
- Col F. W. Dyer, Jr.
- Col R. J. Nunziato
- Col J. T. Stewart
- Col D. H. Heaton
- Col J. B. Williams
- L/C J. A. Hancock
- L/C W. C. Nielson
- L/C J. R. Finton
- L/C K. G. Lindell
- L/C W. A. Walker
- Capt W. S. Rogers

AFODC

- M/Gen T. C. Musgrave
- B/Gen W. E. Rentz
- B/Gen F. J. Sutterlin
- B/Gen T. J. Gent
- Col C. C. Andrews
- L/C R. J. Reed
- L/C T. F. Johnson
- Maj R. C. Brown
- Maj G. W. White
- Dr. Hugh Miser

AFMDC

- Col E. T. Holland
- Col H. W. Powell
- L/C B. J. Cavnar
- L/C B. M. Wayne
- L/C M. A. Bradshaw
- L/C G. F. Hammett
- L/C A. B. Smith, Jr.
- Maj C. L. Vacanti

AFEMD(ARDC)

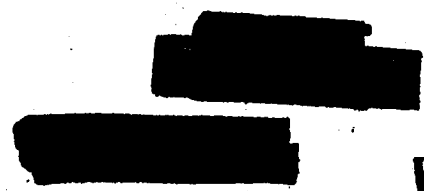
- B/Gen O. J. Ritland
- Col F. C. E. Oder

SAC/MIKE

- L/C E. W. Cutler
- Maj W. H. Weaver

Ramo-Wooldridge

- Dr. Lawrence



[REDACTED]

[REDACTED]

1. The Committee convened during the period 1530 to 1715, 14 March 1958, to review a revised development plan for weapon system 117L, based on a recent decision by the Secretary of Defense to accelerate this program. ✓

2. A detailed briefing on the accelerated program was presented by an Air Force Ballistic Missile Division team headed by Brig Gen Ritland. A summary of the material presented is documented by Inclosure #1 as a part of the record copy of these minutes.

3. In considering the program matter presented, the Committee

NOTED

a. The accelerated program advances operational dates by approximately one year and provides PIONEER VISUAL and FERRET reconnaissance by CY 1960. The first 117L satellite test vehicle launchings begin in November 1958.

b. A direct benefit to the manned satellite program is derived from the fact that excess capacity in volume and weight in some of the earlier THOR boosted satellite flights might be used in an animal recovery program.

c. Providing the first two Project ABLE flights are engineering successes, a satellite attempt could be made in June 1958. ✓

d. The first THOR flights (Project ABLE) will be from Cape Canaveral on equatorial orbit and when suitable facilities are available at Camp Cooke, 117L tests will continue from this location. Polar orbits are not feasible from Cape Canaveral because of the relative position of populated areas.

e. The Hawaiian and Cooke AFB tracking stations have been sited, and a survey is underway for suitable tracking sites in the northeastern and northwestern parts of the United States.

f. The facilities schedules indicate that beneficial occupancy dates can be met.

[REDACTED]

g. The use of the THOR booster presents no unusual engineering problem, and satellite launchings with this booster appear entirely feasible.

h. Resources required to support this program are estimated as follows (FY 1958 figures shown are already funded):

	<u>FY 58</u>	<u>FY 59</u>	<u>FY 60</u>
P-100	35.1	107.6	154.6
P-200	7.6	51.4	73.8
P-300	7.8	23.4	-0-
P-600	10.0	32.5	21.4
	<hr/>	<hr/>	<hr/>
TOTAL	60.5	214.9	249.8

These figures are not identical with previous estimates furnished the Office of the Secretary of Defense, and this disparity must be reconciled.

AGREED

1. THOR boosters will be used to test system components in orbital satellites because the early availability of these boosters will appreciably advance the entire program. ✓

DIRECTED

j. The funding requirements for this program are to be reconciled with previous estimates provided the Joint Chiefs of Staff and OSD. The cost of biological experiments leading toward a manned space flight capability, to include such flights with laboratory animals as may be feasible in WS-117L test vehicles, will also be submitted at the earliest practicable date.

k. The revised development plan shall be presented for approval to the Director, Advanced Research Projects Agency. ✓

[REDACTED]

4. The OSD Director of Guided Missiles has directed the Air Force to investigate and report upon the feasibility of utilizing storable propellants in the TITAN missile including the effects such reorientation would have on TITAN schedules. As a part of this study, Mr. Holaday also requested the Millikan Committee to consider this matter. The Air Force held preliminary discussions with the Millikan Committee in a meeting 14 March. A brief summary report on the status of this investigation was given by Dr. Lawrence for the information of the Committee.

A. E. Krieger

ANDREW E. KRIEGER
Colonel, USAF
Alternate Secretary, Air Force
Ballistic Missiles Committee

WDTSR

MAR 18 1958

MEMO TO: Colonel Terhune

SUBJECT: Current Status of Facilities Construction at Lockheed
Missile Systems Division, Santa Cruz Test Base (SCTB)

1. Site development and construction activities, for WS 117L, at the SCTB have been underway for approximately eleven months.
2. Separate areas to be involved specifically in WS 117L testing at the SCTB, and their current status, are listed below:
 - a. Administration, Assembly and Checkout Building Area. The building which houses WS 117L offices, and vehicle and component assembly and checkout, is complete and in use; present activity centered on preparation of Propulsion Test Assembly for near-future test in Components Test Lab.
 - b. Ordnance Test Area (OTA). The OTA is essentially complete and has been used for WS 117L simulated-tank destruction tests. It will be used shortly for vehicle separation pyrotechnic testing.
 - c. Components Test Laboratory Area (CTL). The CTL will be ready for occupancy during the last week in March. The first test on the Propulsion Test Assembly will begin the second week in April in #1 cell of three in the Lab.
 - d. System Test Stand and Blockhouse Area. Test Stands #1 and #2, of a total of three to exist eventually, have reached a stage of rough-concrete-pour completion. Concrete clean-up, facility plumbing and wiring, and superstructure assembly and/or erection will begin within the next several weeks. Flame Bucket is not in place. Flume and all contouring are complete.
 - e. Water Supply System Areas. The Test Stand Water Supply System is complete and essentially ready for use. The reservoir, dam, pumps, and lines have been cleaned and checked.
 - f. Miscellaneous. Two permanent-type Administration buildings will be constructed adjacent to existing assembly and checkout building, for housing central base control functions.

A tent is presently housing an active engine-valve and plumbing test rig; surrounded by sand bags, which shield the control console and personnel. This test is destined to move to the Components Test Lab shortly.

The road from the base entrance to the Test Stand Area, passing the Components Test Laboratory, and the road to the OTA, are

not surfaced with asphalt or concrete, however it is hard-packed and adequate for near-future transportation needs. Surfacing is to follow shortly.

A purification system will be incorporated shortly to service drinking needs, using reservoir water as source.

The access road to the base is in fair to poor condition due to unfavorable soil conditions and seasonal shifting. Lockheed will have to fund repair of this road under existing easement provisions.

3. This facility survey indicated that it may well be possible for the facility to be ready as required for pursuance of WS 117L Captive and Component Test Objectives, however, the condensed nature of the Test Schedule of the program illuminates immediate slippages whenever other than ideal weather, hardware delivery, labor, check-out and crew training situations develop.

for - *Frederic C. E. Oder*
FREDERIC C. E. ODER
Colonel, USAF
Director for WS 117L

*Forwarded in present form to save
re typing for my signature.*
FCE

WDTSRF

MAY 1 1958

MEMORANDUM FOR COLONEL EVANS, WDTS

SUBJECT: Trip Report

1. Lt. Colonel Q. A. Riepe and Captain G. P. Buck of the WS 117L Project Office, and Mr. John Gavin and Mr. Sid Rosenberg of IMSD visited Hq ADC on 28 April 1958 to present and attempt to resolve the electronic interference problem between ADC's Frequency Diversity (FD) Program and the tracking and data gathering stations of WS 117L.
2. Contacts and arrangements for the meeting were made through Colonel S. L. Huey, Directorate of Communications and Electronics, Hq ADC.
3. Upon arrival at ADC, Lt. Colonel Riepe discovered that the presentation would be attended by relatively low level staff members of ADC, primarily due to the fact that people contacted by the C & E Directorate were not at all familiar with WS 117L.
4. After a brief presentation of the WS 117L program to Colonel J. H. Weiner, Director of C & E, the WS 117L presentation was re-scheduled and appropriate high ranking staff members of ADC were notified.
5. The first part of the briefing was given by Lt. Colonel Riepe to personnel listed on the attached attendance sheet. The outline of the presentation is also attached.
 - a. The presentation was well received, the only specific comment being that Lt. General Lynn desired his staff investigate the feasibility of changing the planned BOMARC site at Camp Adair to Ft. Stevens. It was his thought that better utilization could be made of Tongue Point Naval Station if it supported both a WS 117L tracking and data gathering station at Ft. Stevens and ADC's BOMARC site.
 - b. The second part of the presentation was given by Mr. Sid Rosenberg and was attended by working members of ADC's staff. Mr. Rosenberg discussed the calculated field strength of signals from ADC's FD radars at proposed WS 117L sites and what field strengths WS 117L Subsystem "H" could tolerate.
6. The following plan was agreed on:

AFBMD will notify ADC of the WS 117L site selected for the Northwest and the frequencies of ADC's FD radar that can be tolerated.

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INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

WDTSR 58-236

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by WS 117L Subsystem "H". At this time ADC will decide whether to operate their FD radar in a restricted frequency band to avoid interference with WS 117L or to relocate their FD radar which is scheduled for operation in December 1962. At this time it appeared that FD radars would not affect WS 117L sites in the Northeast or Central United States.

7. After the presentation, Colonel E. B. Gravette, Directorate of Plans, conferred with the AFMD representatives concerning ADC's desire to obtain a more detailed technical briefing on WS 117L and its capabilities. He was somewhat perturbed that the first briefing of ADC on WS 117L was presented as a result of a communications and electronics problem instead of an ADC request to Hq ARDC which had been submitted several months ago requesting a WS 117L briefing.

a. Colonel Gravette was informed of the rapid growth and many changes in the WS 117L program within the last few months and that the possibility of a thorough briefing for ADC could probably be arranged in the next several weeks.

b. Colonel Gravette gave the following as an ADC contact for matters pertaining to WS 117L:

Colonel W. A. Tapscott
Symbol ADLAN-G
Extension 2183
Hq ADC
ENT AFB, Colorado

2 Incls:

1. Attendance List, (U),
2 pgs.
2. Outline, Presentation
to ADC dtd 28 Apr 58,
(S) 2 pgs., WDTSR 58-236

for *Frederic C. E. Omer*
FREDERIC C. E. OMER
Colonel, USAF
Director for WS 117L

WDTSR 58-236

PERSONNEL ATTENDING BRIEFING
 by the AIR FORCE BALLISTIC MISSILE DIVISION
 on PROJECT 117L
 1400 hrs, 28 April 1958

L/Gen Lynn	TS	V/Comdr
M/Gen Grant	TS	D/Opns
M/Gen Muehleisen	TS	D/Plans

Col Weiner, James H.	TS	ADOCG
Col Gravette, E. B.	TS	D/Plans
Col McCollom, L. G.	TS	D/Plans
Col Techner	TS	ADORQ
Col Linder	TS	Comdr/3rd Wea

Lt/Col Fedorovich, V.	TS	ADMEL
Lt/Col Riepe, Quentin A.	TS	AFEMD
Lt/Col Worden, Willard L.	TS	ADOCG
Lt/Col Camp, Donald W.	TS	ADOCG
Lt/Col Martin, R. W.	TS	ADOOP
Lt/Col Baril, C. A.	TS	ADMEL
Lt/Col Cartwright	TS	3rd Wea
Lt/Col Veneziano	TS	ADORQ

Major DeLosier, Bernard C.	TS	ADOCG
Major Hughes, J. B.	TS	ADLAN
Major Glinger, B. W.	TS	ADORQ
Major Diver, W. L.	TS	ADOCG
Major Stapleton, James B.	TS	ADOCG
Major Collins	TS	

Capt. Buck, Guy P.	TS	AFEMD
Capt. Foreman, George R.	TS	ADOCG
Capt. Boyer, Glenn	TS	ADCGO

Incl: 1

Mr. Gavin, John
Mr. Rosenberg, Sid
Mr. Douglas, Haman W.
Mr. Elaylock, Wm. F.
Mr. Chapman, James M.
Mr. Sanders

GRFS
GRFS
TS
TS
GRFS
TS

Lockheed
Lockheed
ADOC
ADOC
ADOC
ADOC

[REDACTED] [REDACTED]

PRESENTATION TO ADC
28 April 1958

- I. Introduction
 - 1. Advanced Reconnaissance Vehicle
 - 2. (History) ARS Evolution
- II. The ARS System
 - 3. WS 117L Trajectory to Orbit
 - 4. Satellite Orbit Schematic
 - 5. Pioneer Reconnaissance Vehicle
 - 6. Satellite Vehicle Weight Analysis
 - 7. Ground Traces Minimum Latitude Orbit.
 - 8. Ground Traces 83° Orbit
 - 9. WS 117L Subsystems
 - 10. Pioneer - Advanced Performance
 - 11. Electronic Reconnaissance
 - 12. (I-R) ICBM Attack Alarm
- III. How Do We Achieve the GOR Capability
 - 13. ARS Program Schedule
 - 14. Thor Test Vehicle Description
 - 15. Facility Requirements
 - 16. Facility Milestones
 - 17. T. & D. A. Station Locations
 - 18. Dev./Opnl. Station Schematic

WDNSR 58-236

[REDACTED] [REDACTED]

Incl: 2

IV. Possible Tracking and Data Gathering Sites

Northwest Area

Ft. Stevens (Army)
Adair (Army)
Larson AFB

Northeast Area

Sampson AFB
Grenier AFB
Drum (Army)
Dow AFB

WDISR 58-236

[REDACTED]

5 MAY 1958

WDTSR

SUBJECT: WS 117L Support Requirements from the National Pacific Missile Test Range

TO: Assistant Chief of Staff for Guided Missiles Headquarters USAF Washington 25, D. C.

1. Reference WDIR letter to AFGM dated 15 April 1958, Subject: "Request for Approval of WS 117L Launching Site, Cooke Air Force Base." The referenced letter cites a WS 117L requirement for the construction of a WS 117L/SM-65 launch complex in the South Cooke-Navy area.

2. In addition to the above outlined requirement, there are other requirements which are currently being generated. These requirements can be generally placed into three categories: (a) Space (land area) on which to place specialized facilities and equipment, (b) the support of these facilities and equipment, and (c) the direct support of WS 117L by providing certain range instrumentation and facilities.

3. Certain of the above requirements can be defined at this time, others must be defined through negotiation and availability of the required item or service.

4. It is, therefore, requested that USAF confirm, to the Navy, the need for Pacific Range Support for WS 117L and advise the AFBMD as to action taken. It is further requested that direct communications be authorized between the Air Force Ballistic Missile Division and the Naval Air Missile Test Range to establish WS 117L support requirements.

*Done
Jared
from Navy
9 May 58*

FOR THE COMMANDER:

SIGNED
J. L. HAMILTON
Colonel, USAF
Executive Officer

DOWNGRADED AT 12 YEAR INTERVALS; NOT AUTOMATICALLY DECLASSIFIED. DOD DIR 5200.10

WDTSR

Col Riepe

2781

[REDACTED]

WDTSR-58-230

Center

OK

Date: 20 June 1958

1C 4751

"AC—PARAPHRASING NOT REQUIRED EXCEPT PRIOR TO CATEGORY B ENCRYPTION... PERMANENTLY REMOVE ALL INTERNAL REFERENCES BY DATE-TIME GROUP PRIOR TO DECLASSIFICATION—NO UNCLASSIFIED REFERENCE IF DATE-TIME GROUP IS QUOTED."

RECEIVED
WDD ARDC
ACTION WDTSR

22 JUN 1958 14 05

INFO: WOGG
WDT
WDE
WOGVV

FA 009

PP 7466 INCL
BE RJVZNF 15F
P 202142Z
FM HQ USAF

TO CINCPAC AF HICKAM AFB HI
COMDR AAC ELMENDORF AFB ALAS
COMCSAC OFFUTT AFB NEBR
COMDR TAC LANGLEY AFB VA
COMDR ADC ENT AFB COLO
INFO COMDR ARDC ANDREWS AFB MD
INCL 7466 COMDR AFMND /ARDC/ INGLEWOOD CALIF

~~S E C R E T~~/CITE AFCSM92401/ FIELD ACTIVITIES CONCERNED WITH THE CONDUCT OF THE RESEARCH AND DEVELOPMENT OPERATIONS ON WS-117L, ADVANCED RECONNAISSANCE SYS WILL COMMENCE IN EARLY FY 59. THE EFFORT ON WS-117L HAS BEEN ASSIGNED HIGHEST NATIONAL PRIORITY AND CARRIES A BX RATING OF .011 BRICK-BAT, AND PRECEDENCE RATING OF I-1, WHICH WILL BE REFLECTED IN FORTHCOMING AMENDMENT TO OPU 58-6. COMMAND INVOLVEMENT VARIES IN DEGREE FROM SUPPORT OF SATELLITE TRACKING STATIONS TO SUPPORT OF COMBINED SATELLITE TRACKING AND DATA ACQUISITION AND SATELLITE LAUNCHING FACILITIES GENERALLY, SUPPORT REQUIRED OF COMMANDS CONCERNED WILL BE THAT ASSOCIATED WITH JOINT-TENANCY AGREEMENTS. DETAILS OF SUPPORT REQUIRED FROM

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INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

PAGE TWO RJVZNF 15F

INDIVIDUAL COMMANDS ARE IN THE PROCESS OF PREPARATION AND WILL BE MADE KNOWN BY DIRECT CONTACT FROM REPRESENTATIVES OF THE AFMND, HQ ARDC. UPON RECEIPT OF REQUIREMENTS, ALL COMMANDS ARE ENJOINED TO PROVIDE HIGHER PRIORITY SUPPORT FROM WITHIN EXISTING RESOURCES AT THE EXPENSE OF LESSER PRIORITY EFFORTS. WHERE THIS IS NOT POSSIBLE, COMMANDS WILL PREPARE BUDGET REQUIREMENTS TO PROVIDE SUCH SUPPORT AND SUBMIT TO HQ USAF, ATTN AFCSM BY MOST EXPEDITIOUS MEANS

BT
THIS IS AC MSG
20/2214Z JUN RJVZNF

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WDSMCC-58-154

[REDACTED]

JUL 17 1958

MEMO

MEMORANDUM FOR GENERAL RICHARD

SUBJECT: WS 117L Development Plan Fund Requirement for FY 59

1. At the request of the Commander, AEGS, Wright-Patterson Air Force Base, an MFP item of \$300,000 F-300 funds was included in the WS 117L Development Plan fund requirement for FY 59. This item to provide funds for a proposed 12,000 sq. ft. expansion of Bldg. 259 at WPAFB to meet "the additional requirements of WS 117L".

2. At the request of MEMPH, preliminary design criteria for this expansion has been provided by AEGS. Detailed functional requirements are being prepared by AEGS and should be completed by 20 July 1958.

3. MEMPH and WPAFB plan to review these criteria to estimate the cost and adequacy. These will be transmitted to the Air Force Installation Representative at Cincinnati, Ohio, for design and construction.

4. The contact at AEGS has been Colonel John G. Eriksen, USAF Commander, AEGS.

SIGNED

HARRY L. EVANS
Colonel, USAF
Assistant Deputy Commander
Space Systems

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INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

FORCE BA [REDACTED] DIV [REDACTED]
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
UNITED STATES AIR FORCE
POST OFFICE BOX 262
INGLEWOOD, CALIFORNIA

li WDG E

31 JUL 1958

WDI

SUBJECT: (Secret) Request for Site Approval WS 117L Development/Operational Tracking Station, Northeast U. S.

TO: Assistant Chief of Staff for Guided Missiles
Headquarters USAF
Washington 25, D. C.

1. The WS 117L Site Selection Board has concluded its study of potential sites in the Northeast United States for a suitable location for a Development/Operational Tracking Station. Inclosures 1 and 2, subject: "Reconnaissance Report Northeast Site Selection Team" and "Site Selection Study Addendum," respectively, provide details of criteria utilized by the Board and their findings with respect to the various sites investigated.

2. Principal considerations for the selection of the tracking station site were (1) technical suitability, (2) availability of Government-owned land, (3) availability of a suitable support base, and (4) economy of construction. No site in the Northeast area fitted all requirements ideally, but least compromise will have to be made at the New Boston Range location. It is requested that approval of this site be secured from the Air Force Ballistic Missile Committee and that this Division be authorized to proceed accordingly. A representative from AFBMD will be available to present this site selection recommendation to the Ballistic Missile Committee if desired.

3. Inclosure 3 is a summary report of the Site Selection Board actions forwarded pursuant to your message AFCEM 51678, dated 4 June 1958.

DOWNGRADED AT 12 YEAR
INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED; DOD DIR 5200.10

SIGNED

3 Incls

1. Recon. Rept (S)
(WD-58-0211) (in dup)
2. Site Selection Study (S)
(WD-58-04462) (in dup)
3. Site Summary (WDI-58-37)(dup)

O. J. RITLAND
Brig. Gen., USAF
Vice Commander

Copy furnished:
Comdr, ARDC (w/incis)
AFIR NER, WDIR, WDTSR

WDI-58-37
Cv of 120va

WDC

6 August 1958

MEMORANDUM FOR COLONEL CURTIN

SUBJECT: WS-117L R&D operations at Cooke Air Force Base

1. Below are listed items which require further attention in order that appropriate planning and programming actions can be taken. You are directed to establish an ad hoc Task Group under the supervision of the 117L program director, having representation from BMO, SAC-MIKE, WBI, and the 514-61 Program Office, to study and recommend a course of action with respect to these items not later than 15 August.

a. The question of using SAC crews to supervise the booster phase of the launch operation during R&D flights.

NOTE: General Funk, General Larga, and the undersigned have substantially agreed that this should be contractor operated with over the shoulder training permitted for SAC military personnel.

b. Establish a date for initiation of operational flights for pioneer reconnaissance. All factors such as the test program, training, availability of facilities, etc., should be considered.

c. Launch and guidance facility requirements to accommodate simultaneous R&D operational flights. Detailed consideration should be given to the utilization of Complex 65-1 for operational flights and use of the GE Mod-2 guidance for both operational and R&D flights.

d. RIM building requirements to accommodate receipt and check-out operations for both R&D and operational flight articles.

e. Delineate the responsibilities which each of the following agencies will have in support of 117L operations:

(1) First Missile Division

(2) Contractors, i.e., Convair, Lockheed, etc.

(3) AMC

WDC
[REDACTED]

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DECLASSIFIED. DOD DIR 5200.10

WDC-58-59

[REDACTED]

(4) Pacific Missile Range.

In considering this item it must be assumed that additional Air Force R&D activities will be conducted from Cooke and Argonne in the foreseeable future. These will be limited to projects for which AFMTC is unsuitable.

S. A. SCHRIEVER
Major General, USAF
Commander

cc: General Peak - BMD
General Lorge - SAC/MIKE
Colonel Leonard - WDI

WDTS

8 August 1958

Mr. L. Eugene Root
Vice President and General Manager
Lockheed Missile Systems Division
Sunnyvale, California

Dear Gene:

My staff has informed you of my decision to establish Lt Colonel Mathison in residence with the 117L Program in Palo Alto. He and his staff will establish for me control over development operations under the 117L Contract. It seems clear now that this activity is likely to be more extensive and important than we had at first visualized.

I have now concluded that we must establish a Development Control Center as a permanent Air Force facility in the Bay area. I visualize that this facility may ultimately occupy approximately 100,000 square feet of building area. The initial requirement of approximately 50,000 square feet, should be made available at the earliest possible date. It will, of course, accommodate contractor personnel as well as Air Force personnel.

I have asked my staff to develop a plan under which FY59 funds will be made available for its construction. In this connection, Colonel Bill Leonhard, my facilities man, plans to visit Jack Carter at Palo Alto on Monday of next week to discuss this matter in further detail.

This new circumstance may effect Lockheed's already well advanced facility planning for the 117L Program. I would like to discuss the whole facilities question with you at the earliest possible time.

Can you meet with me anytime Monday or Tuesday, August 11 or 12, in Inglewood to discuss this matter? I am leaving Tuesday night August 12, for an extended trip.

Sincerely,

/s/
B. A. SCHRIEVER
Major General, USAF
Commander

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WDGO

2 September 1958

MEMORANDUM FOR COLONEL BYANE:

SUBJECT: Requirement for Recovery Force Ships

1. As you know, Lockheed has held rather firm that five destroyer-class vessels are needed during recovery force operations. The recent CNO TWXs, with which you are familiar, bring this down to three although I believe this is a Naval idea and not concurred in by IAC.

2. A requirement for a large sea force will prove embarrassing in a number of different ways. First, its cost is an item which has not been budgeted and which is likely to threaten the existence of the program if we need to budget. Second, it will require substantial coordinating effort - which means manpower and organizing problems - at the Hawaiian base. Third, it provides an opportunity for undue publicity.

3. Simple time and distance calculations convince me that one ship stationed at the center of the predicted impact area could proceed to the farthest corner of such an impact area within four hours. This factor coupled with the fact that the recovery capsule should float for at least four hours; that the recovery aids should function for at least that long; and that the RC-121s should be able to maintain an accurate pinpoint fix on a floating capsule leads me to believe that one ship is adequate. Bear in mind that the functioning recovery aids are necessary for ship recovery and that the same aids make it possible for the RC-121 to keep the floating capsule pinpointed.

4. In view of the immense desirability of saving costs and avoiding an ANFA-Air Force-Navy "coordinating" problem of major proportions, I suggest that a two- or three-man team, possibly led by Col Gibbs, attack this problem and that their primary method of attack be: "Prove that more than one ship is a clear requirement."

SIGNED

2 Incls

1. Cy COMSACMIRAN
CG2021Z
2. Cy COMSACMIRAN
Pt Mugu 151826Z

WILLIAM A. SHEPPARD
Colonel, USAF
Assistant for Special Projects

Cy furnished:
Col Curtin

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

WDGO-58-17

SEP 2 1958

SUBJECT: Request for Design and Construction Funds - WS-117L

TO: Director
Advanced Research Projects Agency
Washington 25, D. C.

Pursuant to Advanced Research Projects Agency Memorandum of 1 August 1958, subject: "ARPA Order 9-58," it is requested that funds in the amount of \$20,474,000 be made available to this Division for the design and construction of the following facilities in support of WS-117L program.

1. Three Tracking and Data-Acquisition Stations-\$10,647,000

- (1) Fort Stevens, Oregon
- (2) New Boston, New Hampshire
- (3) Ottumwa, Iowa

b. Launch Complex, Cooke AFB 6,689,000

c. Missile Assembly Building, Cooke AFB 3,168,000

Total \$20,474,000

2. The Preliminary Construction Proposals as outlined in the enclosure to your memorandum have been prepared for the above projects and are attached hereto.

3. The envisioned facilities represent minimum requirements consistent with the assigned mission. In order to meet the accelerated launch schedules, design on the projects is continuing in accordance with the concepts and criteria contained in the attached

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DECLASSIFIED; DOD DIR 3200.10

FORM 18-51
OCT 11 1958

WDG

WDG Reading File Copy

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Dictated by: [Name] / [Initials] / [Title]
Coordination: [Initials] / [Initials] / [Initials] / [Initials] / [Initials]

[Redacted]

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SEP 2 1958

WDI

SUBJECT: Request for Design and Construction Funds - W3-117L

TO: Director
Advanced Research Projects Agency
Washington 25, D. C.

1. Pursuant to Advanced Research Projects Agency Memorandum of 7 August 1958, subject: "ARPA Order 9-58," it is requested that funds in the amount of \$20,474,000.00 be made available to this Division for the design and construction of the following facilities in support of W3-117L program.

- a. Three Tracking and Data Acquisition Stations - \$2,500,000
 - (1) Fort Stevens, Oregon
 - (2) New Boston, New Hampshire
 - (3) Ottumwa, Iowa
 - b. Launch Complex, Cooke AFB 1,000,000
 - c. Missile Assembly Buildings Cooke AFB 1,000,000
- Total 4,500,000

2. The Preliminary Construction Proposals as outlined in the addendum to your memorandum have been prepared for the above projects and are attached hereto.

3. The detailed facilities represent minimum requirements consistent with the assigned mission. In order to meet the accelerated launch schedule, design on the projects is continuing in accordance with the concepts and criteria contained in the attached

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SEP 12 1958

W.D.I.

AIR CD ltr to ARPA, subj: Request for Design and Construction Funds

presentations. Allotment of the above funds is requested prior to 15 October 1958 to permit solicitation of bids for construction which is scheduled in most cases in early November 1958. As soon as firm criteria becomes available for the other programmed facilities, additional funds in the amount of \$2,913,000.00 will be requested.

3 Encls

1. (S)(WDIR 58-48)(4 cys)
Data Acq. and Track. Sta.
2. (S)(WDIR 58-49)(4 cys)
Pt. Arguello Launch
3. (S)(WDIR 58-50)(4 cys)
Q/M Assembly Bldg. Cooke AFB

SIGNED

B. A. SCHRIEVER
Major General, USAF
Commander

Info Cy (ltr only)

AFCGM
Hq USAF
Hq ARDC (RDZGA)
WDP
WDC

Dictated by Δ Lt Col Lutman/sb/WDIR
Coordination Δ WDI, WDIR, WDIO, WDC, WDTSR

WDIR 58-51
Cy ~~12~~ of ~~12~~ cys

WDGO

12 SEP 1958

MEMORANDUM FOR WDT

SUBJECT: Future Utilization of Complex 65-1 at Cooke AFB

1. It appears that the best utilization of subject facility is to convert it for WS-117L purposes after its utility as an ICBM facility has become marginal. However, it has not been fully established that this is feasible either from a technical or from a range safety point of view.

2. Considerable discussion seems to have centered around the above aspects. However, we are in need of specific documentation so that definitive planning may proceed. I therefore wish that written reports be prepared on both the technical and safety aspects and the entire matter of future utilization of this facility be presented to me in a suitable briefing when the reports are available.

3. What is your estimate of the date by which the above mentioned reports can be presented and the briefing given?

ORIGINAL SIGNED:
B. A. SCHRIEVER

B. A. SCHRIEVER
Major General, USAF
Commander

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DECLASSIFIED. DOD DIR 5200.10

WDGO-58-16

SENTRY FACILITIES SCHEDULE

15 SEPT. 1958

	FY 58			FY 59			FY 60			FY 61			FY 62		
	J	F	M	J	F	M	J	F	M	J	F	M	J	F	M
COOKE AFB															
LAUNCH FACILITY - THOR															
LAUNCH FACILITY NO. 1 ATLAS															
LAUNCH FACILITY NO. 2 ATLAS															
ASSEMBLY BLDGS.															
INTERIM - THOR															
PERMANENT - ATLAS															
TRACKING STATIONS															
COOSE - INTERIM															
- PERMANENT															
HAWK - INTERIM															
- PERMANENT															
ALASKA & PT. MURRU															
NORTHWEST															
NORTHEAST															
CENTRAL															
DEVELOPMENT CONTROL CNTR.															
INTELLIGENCE CENTER															
INTELLIGENCE CENTER (TECH)															

B - GENERAL OCCUR. DATE
X - FULL CAPABILITY

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INTERVALS UNLESS OTHERWISE SPECIFIED
DECLASSIFIED, DOD DIS

WDZ WSE 467

15 SEP 1958

WDTSB

Mr. L. Eugene Root
Vice President and General Manager
Lockheed Aircraft Corporation
Lockheed Missile Systems Division
Burbank, California

Dear Gene:

I want to confirm, as a matter of record, previously made verbal agreements concerning the establishment of an AFSD Field Office to serve as the Development Control Center at your Palo Alto facility.

The Development Control Center has been set up as a division of my WS 117L Project Office and, as such, will be primarily responsible for the R&D operations phase of the Weapon System and such related activity as necessary to develop sound and acceptable plans for the operation of all phases of the Weapon System. The establishment of the Development Control Center will not change the existing working relationship between your IA Branch and the Inglewood Divisions of my WS 117L Project Office except on matters pertaining directly to system R&D operations. However, it is my desire that the services of the Development Control Center contribute to the efficient and timely development of the required Weapon System. The Chief of the Development Control Center will act as the over-all Test Controller on all WS 117L R&D launches and, as such, will be responsible for the total system test support readiness and operation.

I have selected Lt Colonel Charles G. Mathison as the Chief of the Development Control Center and he is now in place at Palo Alto. The office will initially consist of four officers, one airman, and one civilian and will expand gradually to an approximate total of 18 personnel by 31 December 1958. Additional growth is expected but the exact requirements cannot be determined at this time. This future expansion will be related directly to presently unidentified requirements, system development progress and any need to provide an increased Air Force capability.

It has been brought to my attention that Lt Colonel Mathison's office has already been effectively established and achieved an extremely efficient and smooth internal working relationship with the IA branch. It is indeed gratifying that your personnel, under the guidance of Mr. J. E. Carter, wholeheartedly extended the necessary effort to consummate this action and all should be commended accordingly.

CHARLES H. TERHUNE, JR.
Colonel, USAF
Deputy Commander
Technical Operations

H. A. SCHRIEVER
Major General, USAF
Commander

WDISR dh(10 Sep 58)

Maj Zelenka 2751

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BRAS1207 BT
PP 1207
BK NUMBER 157
P 241207
FM 002

TO CDR AFWD ANDC INGLEWOOD CALIF
DDO CR 75
BT

~~CONFIDENTIAL 252245Z SEP 946618 FROM CDR AFRA RICHED JOHNSON
AMENDMENT NO. 4 TO ARPA ORDER NO. 9 INCREASES TOTAL FUND
AVAILABILITY TO \$154.2 MILLION. TOTAL ANNUAL FUNDING NOT YET
APPORTIONED AND HENCE NOT AVAILABLE. FUNDS MADE AVAILABLE THROUGH
AMENDMENT 4 INCLUDE NO FUNDS FOR CONSTRUCTION. YOU ARE ADVISED
THAT THE ANNUAL FUNDING LEVEL OF \$154.2 MILLION FOR OTHER THAN CON-
STRUCTION CANNOT REPEAT UNDER ANY CIRCUMSTANCES EXCEEDS~~

~~EXCEEDS~~
BT
26/1501Z

~~NOTE
THAT IN ANNUAL FUNDING LEVEL OF \$154.2 MILLION~~

RPT LAST THREE

AMENDMENT 4 INCLUDE NO FUNDS FOR CONSTRUCTION. YOU ARE ADVISED
THAT THE ANNUAL FUNDING LEVEL OF \$154.2 MILLION FOR OTHER THAN CON-
STRUCTION CANNOT REPEAT UNDER ANY CIRCUMSTANCES EXCEEDS.
BT

"--PARAPHRASE NOT REQUIRED EXCEPT PRIOR
CATEGORY B ENCRYPTION--PHYSICALLY RE-
MOVE ALL INTERNAL REFERENCES BY DATE-TIME
GROUP PRIOR TO DECLASSIFICATION."

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DECLASSIFIED. DOD DIR 5200.10

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WDCG

29 September 1978

MEMORANDUM FOR MEMPH

SUBJECT: WB-117L Atlas Requested R&D Activity at Cocks AFB

1. General Schriever approved the findings of the Group by signing the attached memo.

2. General Schriever, Funk and Lange agreed (with Hq SAC concurrence secured by SAC/WHM) that the WB-117L H&B now completing design would be utilized for WB-117L R&D plus WB-65 G&E efforts; and that an additional, essentially similar, H&B would be designed and built in the general H&B area at Cocks for SAC use in Atlas and WB-117L operational programs - the R&D's for increments of this latter building to accord with Hq USAF approved operational plans and schedules.

SIGNED

1 Incl
Rpt of Ad Hqs Task Grp
w/3 Incls

WILLIAM A. SHEPARD
Colonel, USAF
Ass't Dir Special Projects

Cys furnished:
WHM (Col Curtin)
WHM

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DECLASSIFIED EVERY 12 YEARS.
DOD DIR 5200.10

WDCG-58-18

NOTE

OCT 15 1958

RE: [REDACTED]

SUBJECT: Facilities Problem Presented with Lockheed Aircraft's Proposal for W-117

The following information is being furnished to you on the problem which has arisen with Lockheed in that there is a substantial difference between the proposal which was the basis of their selection as systems prime contractor, and the proposal they submitted in response to our request for proposal on P/O 57-000-106. In the original proposal they stated that some \$18,000,000 worth of company-owned facilities would be provided for the program. This would include the test facility. In their more recent proposal, they have asked that the government provide this facility at an estimated cost of some \$3.6 million.

The following information is being furnished to you on the problem which has arisen with Lockheed in that there is a substantial difference between the proposal which was the basis of their selection as systems prime contractor, and the proposal they submitted in response to our request for proposal on P/O 57-000-106. In the original proposal they stated that some \$18,000,000 worth of company-owned facilities would be provided for the program. This would include the test facility. In their more recent proposal, they have asked that the government provide this facility at an estimated cost of some \$3.6 million.

There is one aspect of the problem that makes negotiations somewhat difficult. The original Lockheed proposal which contained their cost of the \$18,000,000 of facilities was based on the assumption that the Air Force would enter into the Systems Development contract with them at a reasonable rate, and as you will know, this we have been unable to do as yet. If the means that we have requested from HQ USAF were to be committed to us shortly, this would greatly aid in our negotiations with Lockheed at this point.

1 Inck
P/O 57-000-106
(10-15-58)

FREDERIC S. J. ODE
Lt. Colonel, USAF
Assistant for AF 1171
Technical Operations

*Note: Since we cannot place
too hard a limit on
budget advice is furnished
to you in this
manner
10 Oct 58*

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[REDACTED]

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