

DISPOSITION FORM

SECURITY CLASSIFICATION (If any)

*ADJ**WS 117L
#2
16 Jan
20 Jan*

FILE NO.

SUBJECT

RDGB Diary Items for Week ending 20 January 1956

TO Western Development
Division
ATTN: WDGE

FROM RDGB

DATE 24 Jan 56

COMMENT NO. 1

Lt Col Oder/1f/58

16 January 1956

1. Received a call from Colonel Ahola asking if we had seen the report on rocket engines due this date into OSD. A subsequent check with Colonel Glasser (here on TDY) disclosed that he had the report; it was subsequently signed off by General Power and handcarried to AFDDC-A on 17 January.

2. Together with Colonel Glasser, Colonel Pellegrini, Colonel Genes, Dr. Lombard, and Mr. Coons participated in a briefing to General Power on the Preliminary Development Plan (Initial Test Phase) for WS 117L.

3. Was advised by General Power that the subject of the utilization of the Alpha II test stand had been raised in DCS/D, Headquarters USAF. He feels that this is not their concern, since the decision was a proper one to be made within ARDC. I assured him that the only information I had passed to the WDD Liaison Office was that a decision had been made regarding the Alpha II test stand and that it was my impression that the controversy arose from the intervention of certain officers in the Air Staff who did not agree with the decision which they had learned about from other than RDGB.

4. Passed to RDST for action the TWX from Headquarters USAF requesting a comprehensive report on the utilization and development of AFMTC through 1960. Subsequently advised WDD of the TWX and sent out a copy by airmail.

17 January 1956

1. Wrote a memorandum to General Schriever on WS 107A and WS 315A contractual findings and determinations in reference to a memorandum to me from Mr. Miedel, RDSK.

2. Received a DF from RDZG regarding a letter on guided missiles from CingSAC. Furnished certain information to WDD on this letter by TWX, with a copy of the letter to follow.

3. Sent to General Power a copy of the TWX and 1st indorsement from AFCCM to General Power's letter of 23 December regarding ARDC as the Air Force point of contact for establishing policies and procedures concerning the IRBM programs.

4. Advised General Sessums regarding General Schriever's decision concerning the possible use of Colonel Kime as the WDD Liaison Officer to ABMA, Redstone Arsenal. General Sessums subsequently wrote a letter to General Medaris advising him that Colonel Kime will not be available for reassignment for some time, since he had been only a short time at his present station.

DD FORM 96
1 FEB 50

REPLACES NME FORM 96, 1 OCT 46, WHICH MAY BE USED

16-54801-3

★ U. S. GOVERNMENT PRINTING OFFICE : 1950 O - 266075

DF, SUBJECT: RDGB Diary Items for Week ending 20 January 1956

TO: WDGE

FROM: RDGB

DATE: 24 Jan 56

COMMENT NO. 1 (CONT'D)

5. Forwarded to General Power for signature a proposed indorsement to AFOGM regarding the expansion of WS 107A contact points and liaison officers to include WS 315A.

6. Forwarded to General Power for signature proposed 1st indorsement to WDD letter containing Proposed Military Characteristics for WS 315A. ✓

7. Was advised by Colonel Holzman, RDYDW, that General Sessums desired to know whether a possible assignment existed by Colonel Leo^WB. Skinner, 2560A, within WDD. Unless otherwise diverted, Colonel Skinner who has considerable R&D background and professional education was shortly to go overseas in a position where his background will be given only limited utilization. I talked to Colonel Skinner and subsequently called Colonel Terhune (who knew Skinner at AFSWC) and upon his advise suggested to General Sessums that Colonel Skinner be considered for assignment as Deputy to Colonel Cooper at AFMTC.

18 January 1956

1. Sent TWX to WDD regarding TWX from CinCSAC, DPLTS 0026.
2. Received coordination from General Landon on the draft memorandum for record concerning the 3 January meeting with the Army and Navy. Only minor changes were made.
3. Coordinated on proposed HOI regarding technical reports. In the proposed HOI, WDD is specifically exempt from the proposed system.

19 January 1956

1. Sent a memorandum to General Power regarding a memorandum from Colonel Ballweg in the office of the ASAF (R&D) to DCS/D dated 28 December regarding British Liaison Officer .
2. Sent a memorandum to General Power inclosing a copy of General Rawlings letter to Headquarters USAF on the Martin-Denver proposal. Advised General Power that the matter was still in the Air Staff for resolution.

20 January 1956

1. Received a call from Colonel Williams, AFOGM, concerning a proposed Headquarters USAF TWX concerning visits to WDD and AFMTC. This TWX is in response to General Power's TWX of 4 January requesting this action. Subsequently coordinated the draft Headquarters USAF TWX with General Power and members of the Headquarters

DF, SUBJECT: RDGB Diary Items for Week ending 20 January 1956

TO: WDGE BROM: RDGB DATE: 24 Jan 56 COMMENT NO. 1 (CONT'D)

ARDC staff and made a few minor changes and additions to the proposed TWX; advised Colonel Williams of the changes.

2. Attended the Commander's staff meeting and the staff meeting of the Deputy Commander for Resources.

3. Advised regarding the proposed Headquarters USAF action on the British Liaison Officer (see item 1, 19 January); on the submission of the WS 117L plan (see item 2, 16 January); and of the proposed meeting between General Schriever, General Yates, and General Medaris at AFMTC on 1 February 1956 on instrumentation requirements.

4. At the direction of General Power sent a copy of the draft of memorandum for record on the 3 January 1956 meeting with the Army and Navy to General Brentnall.

5. Pursuant to a telephone call received from General Schriever regarding the film to be used in the Congressional briefings on the WS 107A and WS 315A arranged to put Colonel Perry in touch with General Power (Major Griffin was doubtful that General Power would have time to review the film). Later advised Colonel Perry of the arrangements made in this matter.

6. Visited by Colonel Roberts and Lt Colonel Ryhlick from the Directorate of Management Analysis, Headquarters USAF, and advised that the Director of Management Analysis, General Cecil, had written a memorandum to General Brentnall which proposed management analysis participation in the WS 107A program. The purpose of the visit was to acquaint RDGB with what AFAMA was proposing to present to WDD. I made no commitments to AFAMA representatives and subsequently discussed their visit with General Schriever. He indicated that they might visit WDD in the last two weeks of February. I have so advised the AFAMA representatives via Colonel Elrick of the ARDC Comptroller's office.



FREDERIC C. E. ODER

Lt Colonel, USAF

Assistant Chief

Office of the Assistant to the Commander

cc: Colonel Ahola, AFDDC-A
Hq USAF, Wash 25 DC

DISPOSITION FORM

CLASSIFICATION (if any)

26

Call

FILE NO.

SUBJECT

RDGB Diary Items for Week ending 9 March 1956

TO WDGE

FROM

RDGB

DATE 14 March 1956

EXHIBIT NO. 1

Lt Col Oder/1f/309

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

5 March 1956

1. Received call from General Thatcher, DCS/D, advising that the Army has proposed certain changes to the armament MC's for the IREM to those submitted by the Air Force. He needed the Air Force position on these for a meeting on 6 March. I called Colonel Norton and suggested that WDT get in touch with Colonel Harman in DCS/D who had the action on the matter. I also advised Colonel Ahola as well as Colonels Holzman and Byers, RDTDA.

2. I was advised by Colonel Genez that he had been informed by Headquarters USAF that the briefing of Secretary Quarles on WS 117L had been indefinitely postponed.

3. Major Mortensen, ANP liaison officer, brought in a draft MOI concerning correspondence on WS 107A, WS 315A and WS 125. I suggested certain changes and planned to coordinate the draft with WDD prior to further action here.

4. Major Malcolm D. Hart, 6508A, reported for duty as Assistant WDD Liaison Officer as of 2 March 1956.

6 March 1956

1. Colonel Norton requested the procedure for securing a missile nomenclature for the IREM. After subsequent checking, I advised him that this could be handled through Colonel Barrerre, WALC Engineering Standards Office, who assigned the number and thence to Colonel Walling, DCS/M, Headquarters USAF, who took final action on the matter.

2. Attended a meeting called by RDTA to discuss with Lt Colonel May, AFSWP, the proposed solar furnace facility. In view of the broad potential useage of such a facility, the various concerned staff offices planned to advise Colonel May as to the features they feel will make the facility most useful.

3. General Ostrander received a call from Colonel Power, AFDDP, regarding a meeting on 7 March on picket ships for the Snark program. The meeting to be held in Mr. McNeil's office (ASD/Comptroller) is to answer certain questions which Colonel Power passed on. Some of these involve WS 107A. I passed the information on to Colonel Jacobson and subsequently received a telephone call from Major Morgan, WDD liaison officer at AFMTC, that WDD's requirements and position had been thoroughly worked out with AFMTC who would be represented at the meeting. A memorandum for record has been prepared concerning this meeting and distributed to those concerned.

4. Security violations at WDD was a subject for special discussion at the "dry run" of the Management Control Briefing to be given to the Vice Commanders

DD FORM 96

REPLACES FORM 96, 1 OCT 49, WHICH IS OBSOLETE

CL-43-67

CONFIDENTIAL

DF, SUBJECT: RDGB Diary Items for Week ending 9 March 1956

TO: WDGE

FROM: RDGB

DATE: 14 March 1956

COMMENT NO. 1

(CONT'D)

on 13 March 1956. WDD has had 26 security violations since July 1955. Eighteen of the violations have been committed by civilians and eight by military personnel. It is noted that the rate has fallen to zero in recent weeks.

7 March 1956

1. Coordinated, after some changes, on a letter to Headquarters USAF reporting on the action Patrick proposes in regard to the facilities requirements for IREM #2 and Vanguard.

2. Coordinated with Colonel Boatman a proposed visit to WDD by Brigadier General Gregory, recently assigned as Commander, OSR.

3. Mr. Meany, RUSCB, informed us that he was in receipt of two MIPR's from the Navy in the amount of \$500 each. One MIPR was for use by the Navy Liaison Office at AFMTC and the other for the Navy Liaison Office at WDD. The funds were for services other than personal. RUSCB was advised to forward MIPR's to AFMTC and WDD.

4. Received a call from Colonel Soper concerning the acceleration of certain test stands at AFMTC. Colonel Eades, AFIR, with Corps of Engineers, had informed him that WDD had requested the Beneficial Occupancy Date for certain stands at AFMTC be moved up from December to 1 October 1956, and that an additional \$500,000 would be required. Major Everhart, WDD, was contacted for information on this and he informed us that WDD had not requested acceleration of the BOD for the stands in question (1-A, 1-1, and 1-2) and that dates shown in November 1955 Development Plan were still valid. Major Everhart further advised that he was of the opinion that the Corps of Engineers had a BOD of 21 December 1956 in the contract for some of the stands and if so then acceleration would be necessary. However, the 21 December 1956 date was not generated at WDD and evidently was not coordinated with WDD. Colonel Soper was advised of WDD comments.

8 March 1956

1. Was visited by Mr. Robert Taggart of Reed Research, Inc., Washington, D.C., who has a contract with RADC on missile detection. Suitable clearance and need to know have been certified by RADC. Advised Mr. Taggart in general terms of the ICEM and IREM programs and of certain test schedules at AFMTC. I suggested that he visit WDD for more complete information.

2
DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 13250

CONFIDENTIAL

CG-43-567

[REDACTED]

DF, SUBJECT: RDGB Diary Items for Week ending 9 March 1956

TO: WJGE

FROM: RDGB

DATE: 14 March 1956

COMMENT NO. 1 (CONT'D)

2. Made a short presentation on WDD at the orientation of newly assigned personnel briefing.

3. USAF in an indorsement to a letter concerning the "Report of the Advisory Group on Computers" requested that AFDC make a thorough and far reaching analysis of all ground and airborne digital computer developments, including those which are a part of specific aircraft, missile and weapon systems. The purpose of the analysis will be to determine whether duplication, where it exists, can be eliminated, and the extent to which multipurpose digital computers can be applied in place of one or more special purpose computer designs. RDTD called a meeting on this to discuss the approach to use in answering the USAF letter. Money questions were raised at the meeting but no decisions were reached. No commitments were made by RDGB and the position taken was that expressed by WDD in answer to previous requests for comments on same subject.

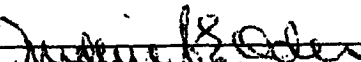
9 March 1956

1. Attended the RDS staff meeting and was advised that a TWX was being sent to AFMTC on the housing problem. At my suggestion, the Commander, WDD was included as an information addressee.

2. Together with Colonel Ahola briefed General Sessums on the March progress reports on ICBM and IREM and got his signature on the letter of transmittal.

3. Discussed briefly with General Ostrander a problem raised by General Estes' office on the use of Test Stand 1-5 at ERETS.

4. General Power had called Colonel Winstead on 6 March 1956 concerning a geodetic survey requirement placed on the Aeronautical Photographic and Charting Service directly or indirectly by WDD for the solution to Geodetic and Gravimetric problems associated with WS 107A. Investigation by Major Harkins, RDSTTG, while on TDY on 8 March indicated only the general nature of the problem. Met with Major Fox, RDTDWT, and discussed the possible problem. Major Fox will go to APCS to investigate the problem further and possibly will need to go to both AFMTC and WDD.


FREDERIC C. E. ODEN

Lt Colonel, USAF

Assistant Chief

Office of the Assistant to the Commander

cc: Colonel Ahola, AFOGM-A
Hq USAF, Wash., D.C.

REPRODUCED BY YEAR 2000
UNCLASSIFIED AFTER 2000
BY 60

[REDACTED]

06-435-67

[REDACTED] AI

SUBJECT: WS 117L Contractor Briefing

TO: WDTR

FROM: WDTT

DATE: 12 March 1956

COMMENT NO. 2

Maj Peabody/ct/111, 563

1. Due to the shortage of personnel in this Group, we are unable to send a representative to Wright-Patterson AFB as requested; however, our preliminary comments were furnished to Commander Truax prior to his departure.

2. As a result of this preliminary study, it is apparent that a careful review of the adopted plan must be made by this and other WDD groups prior to publication of a Development Plan.

SIGNED

RICHARD K. JACOBSON
Lt Colonel, USAF
Chief, Field Test Group

WDT Reading File

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DOD DIR 5200.10

[REDACTED] AI

WESTERN DEVELOPMENT DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

SPECIAL ORDERS)
NUMBER 6)

5 March 1956

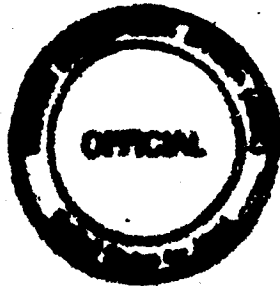
1. Pursuant to AFR 11-1, an Evaluation Board is convened for the purpose of impartially reviewing various design studies and proposals relating to the Research and Development of WE-117L and, if any of the studies and proposals are found to be acceptable, recommending one of the three prime contractors presently conducting such design studies to receive a firm contract for the design and development of WE-117L. Separate findings will be made on each item as outlined by Western Development Division Office Instruction 70-9, dated 18 April 1955. The Board will consist of COLONEL W. H. BAYNES, 1122A, President, who will normally vote only in the event that other members of the Board are unable to agree, and the following voting members. (Personnel listed below, assigned other than WDD, is with concurrence of their Commander):

LT COL	R. C. NOLES	10022A	WDDADC	
CAPT	R. C. TRUAX	82506(USAF)	WDD 1	
LT COL	W. G. KING, JR	8356A	WDD 1	Recorder
LT COL	V. M. GIBBY	8466A	WDDADC	
1ST LT	R. S. WASHBURN	A03019565	WDDADC	
Mr.	R. S. BLOCKER	GS-14	WDDADC	

This Board will exert every effort to obtain unanimous decisions. Final Board proceedings are to be completed on or before 20 March 1956.

BY ORDER OF THE COMMANDER:

OFFICIAL:



WILLIAM C. BUNN
Major, USAF
Division Adjutant

WILLIAM C. BUNN
Major, USAF
Division Adjutant

DISTRIBUTION

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5 - WDDADC
5 - WDDADC
25 - Recorder

WBT

29 February 1956

MEMORANDUM FOR THE RECORD

SUBJECT: ABE Evaluation Board

1. The undersigned received a call this date from Ray Blocker of WASC, with respect to the ABE Evaluation Board actions. Information was requested with respect to the other members of the Board and Frank, a member of WAFB, a member of AMC, and Col Gomez of HQ ANTC in addition to Blocker were named as those who would probably be members.

2. During this conversation Mr. Blocker was queried as to the possibility of his visiting WAFB during the week of 12 March in order that certain aspects of the ABE force position could be discussed with Gen Schriever. (Items of interest in this category are - how we think the development plan should come out; such things as who should have weapon system responsibility; to what extent we should have Government furnished equipment provided, and the probable schedule of development.) Blocker indicated he could probably come out that week.

T
CHARLES E. THORNE, JR.
Colonel, USAF
Deputy Commander
Technical Operations

Comdr Trux: If I am not here it will be your responsibility to see that the paragraph delineating the responsibility of the Evaluation Board is checked with Gen Schriever prior to publication of orders for the Board. CHI

CONFIDENTIAL

WDTR

FEB 28 1956

SUBJECT: WS-117L Contractor Selection Board

TO: Ramo-Wooldridge Corporation
Attn: Dr. Dunn

1. It is proposed to convene a board at Wright-Patterson Air Force Base on 12 March 1956 for the purpose of preparing a contractor preference list for the development of WS-117L.

2. The Western Development Division will arrange for the three system study contractors (Lockheed, Martin and RCA) to brief the Board on 12-14 March. Their presentations at this time are expected to include both technical and management aspects of their proposed programs.

3. It is requested that the Ramo-Wooldridge Corporation make available an individual to act in the capacity of an advisor to the Board. Dr. Robert Cornog is suggested.

SIGNED

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

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DOD DIR 5200.10

WDTR
RC Truax

E.H.
236

CONFIDENTIAL

1000

WESTERN DEVELOPMENT DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

WDSSS

23 February 1956

SUBJECT: Reorganization and Realignment of Functions of Technical Operations (WDT)

TO: See Distribution

1. Announcement is made of the reorganization and realignment of functions and elements under the Office of the Deputy Commander, Technical Operations, effective as of 20 February 1956, as indicated. Responsibilities and functions of these offices will be developed by the Deputy Commander, Technical Operations:

a. There is established an Office of the Assistant for Technical Groups (WDTL). Colonel Lawrence D. Ely is appointed as the Assistant.

b. The Propulsion Group (new symbol WDTLP), the Airframe and Armament Group (new symbol WDTLA), and the Guidance and Control Group (new symbol WDTLG) are relieved from their respective assignment to the Deputy Commander, Technical Operations, and are assigned to the Assistant for Technical Groups without change in functions or personnel except as indicated below:

- (1) Lt Colonel Edward N. Hall is appointed as the Assistant for Weapons System 315A (WDTI) vice Colonel Harold W. Norton, relieved.
- (2) Lt Colonel Edward N. Hall is appointed as Acting Chief, Propulsion Group (WDTLP).
- (3) Lt Colonel John A. Dodge is appointed as Acting Chief, Airframe and Armament Group (WDTLA).
- (4) Lt Colonel Francis M. Box is appointed as Acting Chief, Guidance and Control Group (WDTLG).
- (5) Commander Robert C. Truax is relieved from his assignment as Deputy Assistant for Weapons System 315A (WDTI) and from Acting Deputy Assistant for Weapons System 117L (WDTR) and is assigned primary duty as Deputy Assistant for Weapons System 117L (WDTR).

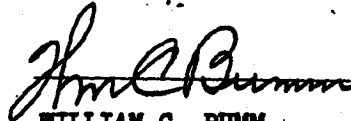
WDD (HEDARDC) WSSSS, subj: Reorganization and Realignment of Functions of Technical Operations (WDT)

2. The Chief, Manpower Group is responsible for correcting and publishing the necessary official organizational documents and charts. The Chief, Military Personnel Branch is responsible for publishing the necessary Personnel Action Memorandums to reflect any changes in duty assignment of the personnel concerned.

BY ORDER OF THE COMMANDER:

DISTRIBUTION:

- 2 - Comdr, WDD
- 5 - Ea Dep Comdr, WDD
- 10 - Ea Gp and Br or Equiv Actvy, WDD
- 5 - RDGB and AFCGM



WILLIAM C. BUMM
Major, USAF
Division Adjutant

From Cal Ode —

19 Feb 1956

WS 117L major objectives for
first half of 1957

1. Preliminary operational concept
2. Definitize Lockheed contact
3. Establish test facilities needs and programming.
4. { demonstration of dir ~~to~~ some
computers & in experimental models
— bread board — configuration.

ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO.

02-071 95

FEB 15 22 55 '56

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

FROM: (Originator)	DATE-TIME GROUP	SECURITY CLASSIFICATION
COMDR WESTERN DEV DIV INGLEWOOD CALIF	2 15 0000	[REDACTED]
	PRECEDENCE FOR:	ACTION INFORMATION
		Priority

TO:	<input type="checkbox"/> BOOK MESSAGE	<input type="checkbox"/> ORIGINAL MESSAGE
COMDR ARDC BALTIMORE MD	<input type="checkbox"/> NOT REQUIRED EXCEPT FOR PHYSICAL REFERENCE BY DATE-TIME GROUP PRIOR TO DECLASSIFICATION	CRYPTOPRECAUTION <input type="checkbox"/> YES <input type="checkbox"/> NO
<p>DOWNGRADED AT 3 YEAR INTERVALS; INFO: DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10</p>	<p>AC-PARAPHRASING NOT REQUIRED EXCEPT FOR PHYSICAL REFERENCE BY DATE-TIME GROUP PRIOR TO DECLASSIFICATION IF DATE-TIME GROUP IS QUOTED.</p>	

FROM: WDFP-2-5-E FOR: MAJOR GENERAL JOHN SIESSERS

THE APPLICATION OF HIGH PERFORMANCE SOLID ROCKETS TO AF VEHICLES HAS BEEN LIMITED BY DEFICIENCIES APPARENT IN CURRENT SOLID ROCKET UNITS. POTENTIAL GAINS ATTAINABLE THROUGH APPLICATION OF IMPROVED SOLID ROCKETS ARE, HOWEVER, SIGNIFICANT. AS COMPARED TO LIQUIDS, THEY OFFER INSTANT TACTICAL AVAILABILITY, THE POSSIBILITY OF LONG PERIODS OF INERT STORAGE WITH NO MAINTENANCE, GREATLY REDUCED REQUIREMENTS WITH REGARD TO COMPLEXITY OF LAUNCHING BASE OPERATIONS, AND GREATLY SIMPLIFIED LOGISTIC NEEDS. SEVERAL SIGNIFICANT APPLICATIONS FOR SOLID ROCKETS IN FIELDS OF AF INTEREST EXIST, INCLUDING MAIN POWER PLANT FOR IRBM, BOOSTER FOR NUCLEAR ROCKET ORBITING SATELLITE, MAIN POWER PLANT OR BOOST FOR ICBM, AND BOOST ROCKET FOR LOW ALTITUDE NUCLEAR RECONNAISSANCE RAMJET. ALTHOUGH IN EACH OF THESE INSTANCES EMPLOYMENT OF A SOLID ROCKET OR AN ADVANCED TYPE INDICATES MANY POINTS OF SUPERIORITY OVER THE EQUIVALENT LIQUID, TIME SCALES INVOLVED IN THE DEVELOPMENT OF THESE UNITS ARE VERY MATERIALLY GREATER THAN THOSE REQUIRED FOR LIQUID ROCKET PROGRAMS. THIS CONDITION STEMS DIRECTLY FROM THE FACT THAT LITTLE FUNDAMENTAL WORK HAS BEEN PERFORMED

WDT

ROUTINE

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO.

FEB 15 22 56 '56 00 07 94

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

FROM: (Originator) **COMDR WESTERN DEV DIV INGLEWOOD CALIF**

DATE-TIME GROUP 2 15 1800	SECURITY CLASSIFICATION [REDACTED]
PRIORITY PRIORITY	ORIGINAL MESSAGE <input type="checkbox"/>
ENCIPHERMENT NOT REQUIRED	ALL INFORMATION <input type="checkbox"/>
CLASSIFIED REFERENCE GROUP <input type="checkbox"/>	TO BE CLASSIFIED REFERENCE TO MESSAGE <input type="checkbox"/>
IDENTIFICATION	CLASSIFICATION IS QUOTED.

TO: **COMDR ARDC BALTIMORE MD**

INFO: **FROM: WDTP-2-5-E FOR: MAJOR GENERAL JOHN SESSUMS**

IN THE FIELD OF SOLID ROCKET IMPROVEMENT FOR THE HIGH PERFORMANCE CATEGORY DURING THE LAST FIVE YEARS. VERY SIGNIFICANT GAINS CAN BE EXPECTED TO BE ACHIEVED WITH REGARD TO HARDWARE WEIGHT, GRAIN FABRICATION TECHNIQUES, INTERIOR BALLISTICS IMPROVEMENT, DEVELOPMENT OF THRUST VECTOR CONTROL AND SHUTOFF TECHNIQUES, AND IN SUPPORT AREAS SUCH AS INSULATING COATINGS, HIGH TEMPERATURE PLASTIC ADHESIVES AND IGNITION ADVANCES. THE NAVY PROGRAM IN THIS FIELD, HOWEVER, INVOLVES IMMEDIATE PROSECUTION OF A SPECIFIED POWER PLANT PROGRAM IGNORING THE LARGE POTENTIAL GAINS WHICH COULD RESULT FROM EVEN ONE YEAR OF BASIC DEVELOPMENT ACTIVITY. IT IS THEREFORE FELT THAT THE RESULTS OF THE NAVY PROGRAM WILL BE OF QUESTIONABLE UTILITY TO THE AF SINCE THEY MERELY INVOLVE A REMASH OF OLD TECHNIQUES WHICH HAVE BEEN REPEATEDLY EMPLOYED IN THE PAST TO PRODUCE ENGINES OF SUCH MEDIOCRE PERFORMANCE AS TO PRECLUDE THEIR USE IN AF PROGRAMS OF THE TYPE INDICATED ABOVE. IT IS THEREFORE RECOMMENDED THAT THE AF RETAIN ITS INDEPENDENT SOLID ROCKET PROGRAM AND PROSECUTE THIS AS VIGOROUSLY AS POSSIBLE TO MEET FUTURE MISSILE REQUIREMENTS AS THEY MATERIALIZE.

WDI

DRAFTER'S NAME (and signature, when required)

SECURITY CLASSIFICATION	PAGE 2 OF 2 PAGES
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RELEASES OFFICER'S SIGNATURE

E. N. HALL, LT. COL., USAF

SIGNED
C. H. [REDACTED], JR., COLONEL, USAF

SYMBOL TELEPHONE

WDTP 1048

INSP COMUR TECH DEVS

DD FORM 1 OCT 49 173

REPLACE THIS FORM IF IT IS OBSOLETE WHICH MAY BE USED.

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

FEB 10 1956

WDR

MEMORANDUM TO: Col. Tramm

SUBJECT: WS-117L Contractor Selection

1. As indicated in another memorandum, action must be initiated early to constitute a board to evaluate the proposals of the three study contractors should General Power concur in this method of selection.

2. The existence of the WS-117L Technical Advisory Board nullifies the normal requirements to some degree. This Board has been in existence for some time and comprises membership from RFE as well as a variety of technical personnel from all participating agencies. As indicated in the memo on required actions, it is intended to have this Board review the proposals for technical merit and present their views to the Selection Board. This seems to me to eliminate the necessity for Center membership on the Selection Board; a view shared by King.

3. With this background, I propose membership as follows:

Chairman	WDR
Member 1	WDR
Member 2	WDR
Member 3	WDR
Member 4	AFAC
Member 5	AMC
Member 6	SCPT

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

So far as individuals are concerned, I urgently recommend that:

a. You or Colonel Horton act as Chairman to give a proper rank, prestige, and authority to the Board.

b. Member 1 could be myself or Tramm, or preferably the individual destined to be the 117L Assistant, if available.

c. Member 2 would ideally be Peter Murray or Ray Blocker to insure close integration with General Estes.

d. Member 3 should be either Lt Col King or Mr. Copeland. Should Murray and Blocker not be available, perhaps both of these should be members.

e. Member 4 is proposed to be Lt Col Guez because of his long association with the program and assistance he may provide on approvals in Baltimore.

f. Member 5 should be someone from AMC Dayton, probably from the Industrial Resources

WDR

[REDACTED]

WDER Memo to Col Terhune, Subj: WS-117L Contractor Selection

g. Member 6 would be an MCPT individual of broad understanding. Major Moore seems ideal for this purpose.

4. Should you concur in this outline, I would propose to send letters immediately to RDE, ANOC and MCPT seeking assignment of individuals in the event a Selection Board is established. A draft letter is attached.

SIGNED

CPTO J. GLASSER
Colonel, USAF
Assistant for WS-117L

1 Incl.
Draft/suggested letter

WHEN INCLS ARE WITHDRAWN OR NOT ATTACHED
THE CLASSIFICATION OF... *Conf*
OF THIS (LETTER) CORRESPONDENCE (INDORSE-
MENT) WILL BE CANCELLED.

[REDACTED]

WDER
Col Glasser

ah
696

WDTS

7 February 1956

MEMORANDUM FOR: Col Terhune

SUBJECT: Presentation to the Stewart Committee on WB-117L

1. On 7 February 1956, the undersigned assisted by representatives of RDZ, WADC, RADC, AFCRC, and R-W, briefed the Stewart Committee at its request on the Initial Test Phase of WB-117L. Prior to this briefing, Dr. Lombard, DCS/D had advised the undersigned of General Putt's views concerning this program and in particular had indicated that General Putt did not wish to hold out for total approval, but would accept approval of a portion of the program. Dr. Lombard was requested to provide this guidance to General Power in view of his concurrence in the program as presented.

2. To dispel the comment that the Preliminary Development Plan was a "sales pitch" it was pointed out that our intention was to simply and honestly present our concept of how to conduct the initial test phase of the ARS program on a time scale compatible with the IGY period. In answer to questions, it was estimated that this involved an acceleration of the ARS program by six months to a year.

3. The Committee was interested in the ICBM interferences and benefits of such an effort. It was indicated that by careful scheduling, and by restricting the characteristics of the orbiting vehicle, to approximate the ICBM warhead, engineering interference was kept small. Production was considered to be a small interference problem since sufficient lead time exists. Test facility interference is held to a minimum by construction of sufficient stands to make the ARS program self-sufficient. After a detailed review of the ICBM test philosophy, it was recognized that the major benefit to the ICBM program was the opportunity to acquire additional statistical testing under flight conditions with minimum expense.

4. The Committee questioned at length our liaison with the Vanguard program, our intentions concerning use of Vanguard facilities, and our thoughts concerning use of Vanguard subsystems. We indicated a need for closer liaison and asserted that the other points are under continuing study; but that we would certainly use whatever of the Vanguard program was suitable, but called attention to the fact that the IGY activity is only one aspect of this program which is primarily aimed at ARS. We indicated that matters such as this along with such things as the release of data must be reviewed jointly when our role is clarified.

5. Numerous questions related to funding requirements, source of funds, modification to the program possible, our interest in undertaking the program, etc. The replies to such questions can best be summarized that we made an earnest effort to provide the information requested, if available. On matters of policy or opinion, we deferred to the judgment of higher headquarters.

DOWNGRADED AT 3 YEAR INTERVALS:
DECLASSIFIED AFTER 12 YEARS.

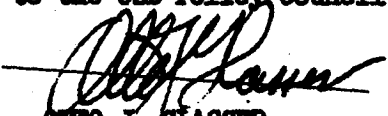
DOD DIR 5200.10
WDTS-56-7

[REDACTED]

CONFIDENTIAL

Memo for: Col Terhune, 'Subj: WS-117L Presentation

6. On the whole, the Committee seemed interested and generally satisfied with the presentation and discussion. They provided no hint of their conclusions and were to meet in executive session during the afternoon to prepare their comments to the OSD Policy Council.



OTTO J. GLASSER
Colonel, USAF
Assistant for Systems Management

[REDACTED]

[REDACTED]

Reorganization of WDT

WDS

WDT

6 Feb 56
Capt Smith/603

1. Request that announcement be made of the reorganization and realignment of functions within WDT. This action should be effective 6 Feb 56.

a. The office of the Assistant for Systems Management is inactivated and the personnel and functions are transferred as indicated below.

b. The office of the WS-107A Control Group is inactivated and personnel and functions are transferred as indicated below.

c. The office of the WS-315A Control Group is inactivated and personnel and functions are transferred as indicated below.

d. The Programs and Procedures Group is relieved from assigned to the Assistant for Systems Management and is assigned to the Deputy Commander, Technical Operations. (New Organizational Symbol WDTO)

117L
e. There is established the office of "Assistant for Weapons System 107A-1" (WDTA) and Colonel OTTO J GLASSER is appointed as the Assistant and Lieutenant Colonel JOSEPH D HECK, JR as the Deputy Assistant.

f. There is established the office of "Assistant for Weapons System 107A-2" (WDTB) and Colonel BENJAMIN P. BLASSIERUS is appointed as the Assistant and Lieutenant Colonel OTTO C LEIFORD as the Deputy Assistant.

g. There is established the office of "Assistant for Weapons System 315A" (WDTI) and Colonel HAROLD W. BRITTON is appointed as the Acting Assistant and Commander ROBERT C TRUAX as the Deputy Assistant.

h. There is established the office of "Assistant for Weapons System 117L" (WDTL) and Colonel OTTO J. GLASSER is appointed as the Acting Assistant and Commander ROBERT C. TRUAX as the Acting Deputy Assistant.

2. Concurrent with the changes indicated above, the organization, organizational titles and symbols are redesignated as indicated on Inclosures 1 and 2.

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

Assignment of Office Symbols for WDT

WDSSA

WDIX

23 Jan 56

Capt. Smith/603

1. Request the following office symbols be authorized and published:

Deputy Commander, Technical Operations - - - - - WDT
Assistant Deputy Commander, Technical Operations - - - WDTD
Executive Officer, Technical Operations - - - - - WDX
Programs & Procedures Group - - - - - WDTC
 Programs Control Room Branch - - - - - WDTC
 Procurement & Procedures Branch - - - - - WDTC
 Programs Branch - - - - - WDTC
Facilities and Equipment Group - - - - - WDF
 Facilities Branch - - - - - WDF
 Equipment Branch - - - - - WDF
Field Test Group - - - - - WDT
 WS-107A-1 Test Branch - - - - - WDT
 WS-107A-2 Test Branch - - - - - WDT
 WS-315A Test Branch - - - - - WDT
HADC Project Office - - - - - WDH
AFFTC Project Office - - - - - WDT
AFMTC Project Office - - - - - WDT
Assistant for Weapons System 107A-1 - - - - - WDT
Assistant for Weapons System 107A-2 - - - - - WDT
Assistant for Weapons Systems 315A - - - - - WDT
Assistant for Weapons System 117L - - - - - WDT

WDT

WZEX Subj: Assignment of Office Symbols for WDT

Airframe and Armament Group - - - - - WDTA
Airframe Branch - - - - - WDTAA
Armament Branch - - - - - WDTAA
Hypersonics Design Branch - - - - - WDTAH
Guidance and Control Group - - - - - WDTG
WB-107A-1 Branch - - - - - WDTG1
WB-107A-2 Branch - - - - - WDTG2
WB-315A Branch - - - - - WDTG3
Inertial Projects Branch - - - - - WDTG4
Propulsion Group - - - - - WDTGP

VERNON L. SMITH
Captain, USAF
Executive Officer
Technical Operations

DISPOSITION FORM

[Handwritten signature]

[Handwritten initials]

FILE NO.

SUBJECT

RDGB Diary Items for Week ending 27 January 1956

TO Western Development
Division
ATTN: WDGE

FROM

RDGB

DATE

31 January 1956
Lt Col Oder/lf/58

COMMENT NO. 1

23 January 1956

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

1. Received Headquarters USAF TWX, AFDRD-RE 54733, which concerned a briefing to the Stewart Committee on WS 117L. Passed action to RDZFI and subsequently advised WDD.

2. Furnished to Colonel Jackson, Acting Director, RDST, advanced copies of correspondence from the Pentagon on the tentative test schedule for the Army Redstone and IREM #2 programs at AFMTC. Upon receipt, passed the action copy to him.

3. Effected final coordination with Colonel Williams, AFCCM, regarding a TWX to be sent to all concerned regarding visits to WDD and AFMTC. This action was in response to an earlier request by General Power for such restriction.

4. Discussed the following with General Schriever by telephone:

a. General Schriever concurred in General Ostrander's attending the meeting of 1 February at AFMTC with himself, General Yates, and General Medaris.

b. I undertook responsibility for the WDD contribution to the Quarterly Command letter in view of the short deadline on this matter. Copies of the submission were sent to WDD.

c. Advised of the visit of representatives of the Directorate of Management Analysis, Headquarters USAF. General Schriever due a visit by this group during the last half of February. *20 Feb. Bout*

d. Tentatively established the week of 13 February as the date for my next visit to WDD.

5. Called to Colonel Hall's office, WDD, regarding a memorandum for record on the solid rocket fuel meeting sponsored by this headquarters recently. Aeronautics and Propulsion Division desires WDD comments and/or concurrence.

6. Mrs. Helen Spedden joined the RDGB staff this date.

24 January 1956

1. Sent a DF to General Schriever inclosing a letter from the Vice Commander, ADC, dated 17 January 1956, Subject: ICEM and IREM Capability and Priority.

[REDACTED]

DF, SUBJECT: RDGB Diary Items for Week ending 27 January 1956

TO: WDGE FROM: RDGB DATE: 31 January 1956 COMMENT NO. 1
(CONT'D)

2. Received the telephone concurrence of Major Arnold, WDD, to the declassification of AZUSA equipment proposed by RDTDGI.

3. Clarified with Colonel Sheppard, WDD, the recent real estate problem raised by an AFCIE-ROS TWX and a SAC Top Secret TWX which was cited to WDD, (DPLTS 0026).

4. Discussed with Major Everhart, WDD, a proposed facilities meeting and subsequently advised RDSI as to the nature of the meeting.

5. Received a call from Major Palmer, Transportation Officer, Headquarters ARDC, regarding an air shipment from Pittsburgh to Portland, Oregon, and later discussed this by phone with Colonel Hebner, WDD.

25 January 1956

1. At the request of General Wood, attended a discussion with him and Colonel De Gennaro, AFDFR, MIT, regarding the receipt by Dr. Draper, MIT, of the standard letter that went out to all ICBM contractors on the acceptance of IREM business. Advised General Wood and Colonel De Gennaro that this same letter was sent to all principal WS 107A contractors. (CONFIDENTIAL)

2. Was advised by Colonel Winstead that he saw no objection to the proposed WDD briefing of the legislative liaison staff in Headquarters USAF. So advised General Schriever and subsequently confirmed by TWX that General Power had concurred.

3. Colonel Rader advised General Ostrander and the undersigned that OSD was interpreting General Power's words at the 3 January meeting with the Army and Navy to the effect that the Air Force would fund Army and Navy ICBM requirements at AFMTC. Subsequently learned that the OSD position was based upon an alleged original agreement between the three services at the time Air Force took over AFMTC. General Power, General Yates, and General Schriever were furnished a memorandum for record from General Ostrander on this subject.

4. Called Colonel Dodge, WDD, regarding a Committee on Aeronautical Facilities meeting scheduled for 0930, 8 February, in Room 3E 1060, Pentagon, to hear presentations on proposed re-entry facilities. Colonel Dodge advised that he saw no difficulty with this date but would confirm by TWX.

[REDACTED]

DF, SUBJECT: RDGB Diary Items for Week ending 27 January 1956

TO: WDGE FROM: RDGB DATE: 31 January 1956 COMMENT NO. 1
(CONT'D)


5. At the request of Colonel Dickson, Director of Development, attended a meeting with him and Colonels Williams, Teubner, and Esch (all of RDTDG), and Colonel De Gennaro regarding the future support of Dr. Draper's group at MIT. They hope to be able to support the Draper group at a relatively constant level during the next few years but recent budget reductions for this type of support looming for FY 56 and FY 57 pose a real problem and they are looking to WDD for help. I pointed out that while the WDD program was large, it still had its fund difficulties and that I was in no position to make any commitments on behalf of WDD but would take the problem up with Colonel Blasingame. RDTDG will make every attempt to recommend a reprogramming within the funds available to RDTD to accomplish their purpose and hope to work with WDD on the solution to this problem.

26 January 1956

1. Received from RDSML a DF regarding the revision of the materiel portion of ARDCM 80-4. Forwarded same to WDTSP and WDSM for comment and/or concurrence.
2. Forwarded WS 107A and WS 315A briefs (received from AFCEM) to key staff personnel in Headquarters ARDC.
3. Wrote DF to Colonel Hudson on Release of CONVAIR Reports, referencing similar DF of 3 January 1956.
4. Discussed with Major Brazie, RDSTI, the visit of a BJSM representative to AVCO in connection with WS 107A matters.

27 January 1956

1. Forwarded to WDD a TWX citing a Headquarters USAF TWX on the Priority of the ICBM-IREM Programs.
2. Attended the Commander's staff meeting and the staff meeting of the Deputy Commander for Resources.
3. Received from Headquarters USAF a revised Draft Preliminary Operational Concept for the SM-65 (ATLAS) and initiated action to forward this to WDD.


FREDERIC C. E. ODER
Lt Colonel, USAF
Assistant Chief
Office of the Assistant to the Commander

cc: Lt Colonel Ahola, AFDDC-A
Hq USAF, Wash 25 DC

[REDACTED]

01-43-53

COMDR WESTERN DEV DIV INGLEWOOD CALIF

302330 JAN 56

ROUTINE

COMDR ARDC BALTIMORE MD

MM

FROM WDTSP-1-6 HQ ARDC FOR RDEPI

REF SECRET DOC WD-56- 00088 WS 117L PRELIM DEV PLAN FOR ARS HANDCARRIED TO
UR HQS ON 16 JAN BY COL GLASSER THIS DIV PD BECAUSE OF ADD DISTR TOTAL CYS
HAS BEEN INCREASED TO 75 PD REQ UR OFFICE TAKE ACTION TO DELETE NO 45 AND
SUBSTITUTE 75 PAGE 1 OF PLAN FOR THE 25 CYS SIGNED FOR BY LT COL GENEZ ON
16 JAN 56 PD

WDT Reading File

D. D. CLEARY, Major USAF


C. E. HUGHES, Lt Colonel, USAF

1 1

WDISPR

252

Chief, Programs & Procedures

19 January 1956

MEMORANDUM FOR: General Schriever

**SUBJECT: Status of AFS Early Capability (Taken to Washington
by Glasser)**

Telephone call from Colonel Genez this date with following information:

1. Delivered to Gen Power 15 January, who indicated favorable reception; however, wanted to make sure any future action was performed by competition methods.

2. Delivered documents to General Putt on Tuesday, who eventually turned them over to the Homer Joe Stewart Group for review. (This is the same group that Si Ramo and I talked to last summer.)

3. The next move will probably be to brief the Homer Joe Stewart Group in early February.

NOTE: We have been requested to supply Stewart, Lauritsen, and Clement copies of this document so that they can become familiar with the document in advance of any briefing. In addition, Hq USAF would like to have 10 more copies.

4. No action is required on your part. The above is offered for your information only.

C. H. T.

cc: Colonel Glasser

WDT

16 January 1956

MEMORANDUM TO GENERAL SCHRIEVER

SUBJECT: ARS

Gen Power, this date, accepted and forwarded the ARS Plan
carried in by Glasser. (Time phoned in: 1340)

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

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

WTFSE

12 January 1956

MEMORANDUM TO: Lt. Col. Edwin A. Szwed

SUBJECT: Responsibility for Advanced Reconnaissance System

1. The WDD has been assigned responsibility for the Advanced Reconnaissance System. We have been directed (Inclosure 1) to submit to Hq USAF, by 17 January 1956, a development plan for that portion of the ARS program required to place one or more vehicles in an orbit in the International Geophysical Year (July 1957 - Dec 1958) or shortly thereafter. As a basis for planning, it has been decided that the program will consist of the firing of ten vehicles at a rate of roughly one per month beginning in August 1958 and ending in mid 1959. The overall ARS vehicle is expected to be essentially an SM-65C with a new powered third (or 2nd and $\frac{1}{2}$) stage replacing the normal nose cone.

2. It is requested that WDD prepare an estimate of facility requirements, and cost of these facilities, and comments on feasibility of meeting the desired launch schedule. It is anticipated that the launching will involve a cooperative effort between Convair and the ARS prime contractor, similar to nose cone tests on the ICBM program.

3. The differences in launch requirements between the SM 65C and the ARS involve the following essential elements:

a. The ARS nose cone will be slightly longer than standard (although it is hoped that it will clear the standard gantry cross member) and will require additional servicing platforms.

b. Propellant servicing lines must be added to permit servicing the nose cone in place.

c. Means must be provided for hoisting the nose cone and mounting on the SM 65 after the latter has been erected.

d. Blockhouse space must be provided for additional nose cone checkout equipment (the ARS nose section is expected to be more complex than the standard cone).

4. It is desired that the estimate cover only that portion of the facilities at Patrick required to permit Convair to attain the additional launching capacity, not the facilities required to receive, checkout service or track the nose cone itself.

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DECLASSIFIED AFTER 12 YEARS,
DOD DIR 5200.10

DECLASSIFIED BY 5200.10

36-1

[REDACTED]

WDST (MDD, ARDC) MEMO. TO: Col. Swanke
Subject: Responsibility for ARS

[REDACTED]

5. No estimate of contractor's plant facilities is requested.
6. It is requested that the estimate be available by 0830 Friday, 13 January 1956.

SIGNED

R. C. TRUAX
Commander, USM

CC: Colonel Glasser

5 January 1956

REFERENCE FOR: Commander Truax

At your earliest opportunity, you should be addressing yourself again to the research proposals for computer activity which we deferred at our last meeting with Drs. Fano and Dean. I have mentioned these to Colonel Blasinger and he is prepared to participate in a discussion whenever it is convenient for you.

SIGNED

OTTO J. GLASSER
Colonel, USAF
Assistant for Systems Management

with O'Neil file

WDS
Col Glasser

ah
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UNCLASSIFIED

*See
Adm. Rpts*

SEP 24 1956

OFFICE OF ORIGIN WILL ENTER OFFICE SYMBOLS IN THE "TO" BLOCKS IN ORDER OF DESIRED COORDINATION

PERSON COORDINATING WILL ENTER NAME AND DATE IN APPROPRIATE BLOCK

TO: **MCPTS**

NAME: *[Handwritten]*

DATE: *[Handwritten]*

TO:

NAME:

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TO:

NAME:

DATE:

TO: **WDTR**

NAME: *[Handwritten]*

DATE: *14 Sept 56*

TO:

NAME:

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TO:

NAME:

DATE:

TO:

NAME: *[Handwritten]*

DATE: *20 Sept 56*

TO: **WDTR**

NAME: *[Handwritten]*

DATE: *9/14/56*

OFFICE OF ORIGIN: **WDTR**

TYPIST: **DH**

OFFICER: **Riepe**

PHONE NO: *[Handwritten]*

WDD FORM 11

Mr. H. L. Hibbard
 Lockheed Aircraft Corporation
 Missile Systems Division
 7701 Woodley Avenue
 Van Nuys, California

Dear Mr. Hibbard:

Within a few days the Lockheed Aircraft Corporation will receive a request for proposal from the Air Force for the development of WS 117L as described in the Western Development Division Plan WS 117L. This program has been placed very high in relative importance within the framework of the defense efforts of the nation.

The earliest possible warning of a Soviet intention to attack is a vital requirement for the defense of the United States. This system can provide, at a reasonably early date, surveillance of the whole Soviet complex. The use of varied sensing devices planned for the system should reveal Soviet preparations for attack well in advance of the event. Of equal importance, the operational system will provide accurate target information necessary for effective counterattack, and as a by-product, provide a forceful deterrent to the initiation of hostilities.

This system is presently assigned a 1A priority and a 1-6 precedence rating.

Sincerely,

[Handwritten Signature]

C. S. MITLAND
 Colonel, USAF
 Vice Commander

UNCLASSIFIED

OFFICIAL FILE COPY
 WDTR
 OFFICE OF RECORD

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

WDTR 56-110

Sum.

21 September 1956

MEMORANDUM FOR THE RECORD

SUBJECT: Telephone Conversation Between Colonel Norton, WDTD, and Colonel Eichel, AFMTC, Regarding the 117L Program

1. Colonel Eichel requested an answer on the 117L situation. Colonel Norton couldn't give him a definite answer because he didn't know what information Colonel Terhune had received.

2. Colonel Eichel has received a TWX from General Landon and General *Vates* asking why the design criteria for the 117L items have not been received. The '58 MCP budget includes a couple of assembly buildings, a block house and coupler pads. The TWX asked that AFMTC coordinate on the drawings but AFMTC doesn't feel that they can due to the fact that they have not seen the specified plans. Colonel Eichel asked the reason for the "rush". Colonel Norton gave the reason that the design criteria had to be included before any funds would be approved. He stated that this particular item was under study and that the work might go to AFMTC, they might get most of it and the rest would be done elsewhere, or the work might given entirely to some other place. Colonel Order is away at the present time but he has had this particular situation under study and there is a possibility that General Schriever will make a decision on it the last of next week. When a decision has been reached, Colonel Norton indicated this headquarters will specify how much and where they want it. Colonel Norton stated that the detailed criteria will have to be worked over and he doubts that the people in Hqs USAF have had a resume of what AFMTC has done to date. He believed that a meeting would have to be scheduled to get together with all parties concerned either at WDD or at AFMTC, but nothing can be done until week after next. He stated that he realized this is an wastefulness

3. Colonel Eichel stated that General Landon had directed that the information be in by Monday. Colonel Norton suggested that the criteria be made to fit the ⁶5, due to the fact that there are two, ^{stand} and the criteria has already been drawn up. Colonel Eichel didn't think this would work because if use was made of what had already been drawn up there wouldn't enough money to cover everything, and a decision must be made as to whether they would need either two. Colonel Norton stated that this should match the other right now, but that the money would be needed regardless of how many would be needed. He directed that Colonel Eichel tell the people to submit the criteria and if they need any more WDD will back them up. Colonel Eichel indicated that if they don't get the criteria there will be a shortage of \$4 million dollars. Colonel Norton requested that he call back as soon as he had any more information.

4. Colonel Norton advised that Colonel Terhune has finished a memorandum for the record on their visit to AFMTC this week and is forwarding a copy of it to Colonel Eichel today. He (Col Norton) is also going to write a note to General Yates from General Schriever suggesting a little surveillance in the AIO area, since it might be necessary. In the meantime Colonel Eichel is to let Colonel Norton know anytime something slips. Colonel Eichel continues to call WDD and has kept Colonel Terhune and Colonel Jacobson up-to-date on everything. Colonel Norton wants to be advised if anything goes wrong because this is an extremely critical time. Tony called this date to see if they can get help from BMD and Colonel Eichel asked that Colonel Norton ~~would~~ request help from BMD for them also. Colonel Norton agreed, and advised Colonel Eichel to identify everything.

SEP 20 1956

WDTR

SUBJECT: Security Considerations Relevant to Weapon System 117L

TO: Commander
Rome Air Development Center
Griffiss Air Force Base
New York

*Delivered to
WADC
AFCRC*

1. Reference is made to ARDC System Development Directive No. 117L, "Advanced Reconnaissance System", dated 17 August 1956.
2. Your Center has, in the past, supported both the technical development and planning aspects of the subject System and, in the future, will be called upon to provide further assistance consistent with the requirements of the System and available resources.
3. In order that the provisions of paragraph 4 d(1) of the above referenced System Development Directive can be met, it is requested that your Center provide to the Western Development Division, Attention: WDTR, a roster of individuals whose positions in your opinion require over-all knowledge of the sensitive aspects of the WS 117L Development Program, together with a justification for such recommendations. It is further requested that any changes to this roster be promptly submitted to the Western Development Division.
4. "Sensitive aspects", as used in paragraph 3 above is defined as follows: Those items listed in Section XIV, page 31 of the Master Security Classification Guide, WS 117L, 27 August 1956, which carry Top Secret classification, i.e., Item A., B., F., G., H., I., and J.
5. Six copies of the Master Security Classification Guide for WS 117L are forwarded for your use. Because of the sensitive nature of WS 117L, particular emphasis must be given to administration of the "need-to-know" principle of security in regard to this System.

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

WDTR
Col Riepe

dh/le
att 1344

WDTR-56-151

[REDACTED]

WDTR-WDD(HQ AFDC)

SUBJECT: Security Considerations Relevant to Weapon System 117L

6. It is essential that distribution of all reports prepared either by contractors under the direction of your Center, or within your own laboratories, on projects or tasks in support of WS 117L be carefully controlled. Distribution of this material, i.e., technical progress reports, management reports, etc., will be subject to the written approval of Western Development Division in each case. When the reports to be distributed involve data which fall within the "sensitive aspects" area distribution will be further guided by the "need-to-know" rosters maintained by Western Development Division.

FOR THE COMMANDER:

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

1 Incl:
6 C:ys Master
Security Classification
Guide (U)

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



WDTL

18 September 1956

MEMORANDUM FOR: General Schriever

SUBJECT: Material Related to Work of Ballistic Missile and Space Vehicle Committee

1. Inclosed is the memorandum to Chairman of Ballistic Missile and Space Vehicle Committee attaching a copy of two reports:

a. "Ballistic Missiles, Satellites, and Space Vehicles, 1956 - 1976"

b. SECRET RAND Report, RH-1720, "General Report on the Lunar Instrument Carrier (U)", dated May 28, 1956.

WDT

2. Although, I received comments from RAND, R-W, and WDT personnel on the report which I prepared, it was written in a hurry, and I consider it an advanced draft. I think that the distribution should be very limited until the report has been finally edited.

3. As additional background material for the meeting, I am enclosing DF, dated 10 Sep 56, "Review of the AFPC Evaluation of the final Holmes and Narver Report, "Feasibility Study for a Guided Missile Development Center". Attached to this DF as Tab A is our Review and Evaluation of the Report, "Feasibility Study for a Guided Missile Development Center", by Holmes and Narver, Inc., August 1956. Tab B is a copy of Dr. Ramo's comments on this Report, July 26, 1956. Tab C is a copy of a memorandum which I prepared on their preliminary report, 23 May 1956.

4. Also attached for possible aid in discussing management problems are copies of (1) "Monthly Report - Contract AF 29(600)-1020 (HADC) from R-W, dated August 1, 1956, and (2) "Part I -- Technical Progress", from R-W, dated August 1956, WD 56-02888.

5. We have also just received a copy of the report, "Establishment of an Institute for Space Flight Technology", which you may want to review prior to your deliberations with the Committee.

SIGNED

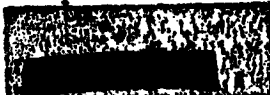
LAWRENCE D. ELY
Colonel, USAF
Asst for Technical Groups
Deputy for Technical Operations

5 Incls
a/s

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

WDTL

Col Ely



WDTL 56-36

WDGE

12 September 1956

MEMORANDUM FOR THE RECORD

SUBJECT: ARDC Commanders' Conference on 21 September and Meeting of Guided Missile and Space Vehicle Committee on 20 September

1. I contacted Colonel J. T. Winstead, Executive to General Power, and gave him information as to dates of arrival and personnel we will have attending the two meetings in Cleveland as follows:

<u>NAME</u>	<u>RESERVATIONS</u>	<u>ARRIVAL TIMES</u>
SCHRIEVER, Maj Gen B. A.	Night of the 20th only	1025 hours, 20 Sep Capital Flt #134
ELY, Colonel L. D.	Nights of 19th & 20th	19 September
SWANKE, Lt Colonel E. A.	"	"
(Ely and Swanke attending Space Committee Meeting only.)		
LODELL, Lt Colonel E. J.	Nights of 20th & 21st	1940 hours, 20 Sep
HUGHES, Lt Colonel C. E.	"	"

(Lodell and Hughes attending Commanders' Conference only.)

2. The Guided Missile and Space Vehicle Committee will meet at 1330 on 20 September at the Lewis Flight Propulsion Laboratory, Cleveland. Agenda for this meeting is as follows:

1330-1430	Discussion of material to be furnished by WDD on a 10 - 20 year development forecast.
1430-1530	Discussion of material to be furnished by AFMTC on facilities requirements (collation of comments on Kolmas & Harver Report.)
1530-1630	Discussion of material on management problems--to be furnished by Generals Schriever and Davis.
1630-1730	Discussion of Holloman build-up and future plans of the Guided Missile and Space Vehicle Committee.

3. The Commanders' Conference will be held at Lewis Flight Propulsion Laboratory on 21 September, and, as in the case of those conferences held at the major commands, the morning will consist of a briefing

WDGE

al

Lt Col Hamilton

220

by the host, the Lewis Laboratory, with the afternoon being devoted to AFWC business. Scheduled for discussion as the principal subject for the afternoon session is the FY 57 Program financial status and related problems.

4. Lewis Flight Propulsion Laboratory is located on the west edge of the Municipal Airport. Lewis Flight Propulsion Laboratory will make the necessary hotel reservations. Conferees arriving in Cleveland may obtain information on their reservations by calling Mr. Wilson Hunter, Assistant to Dr. Sharp, Director of NASA Flight Propulsion Laboratory, Winton 1-6620, Ext 14, or Lt Colonel Leslie G. Pattillo, Air Force Field Development Representative, Orchard 1-1211. There will be an informal "Dutch Treat" dinner scheduled on the evening of 20 September for conferees.

SIGNED

J. L. HAMILTON
Lt Colonel, USAF
Executive Officer

cc: Gen Schriever
Col Ely
Lt Col Swank
Lt Col Hughes
Lt Col Ledell

[REDACTED]

[REDACTED]

Staff Study - Proposed Management Procedures
for WS 117L

SEP 12 1956

NET:
WDGV(In Turn)

WDTR

Lt. Col. Oder/dh/1344

1. Statement of the Problem: To develop a Western Development Division with regard to the overall management of the development program of WS 117L. This action was directed in your memorandum (Inclosure 1) of 20 July 1956 to Commander Truax, Subject: "117L Management".

2. Recommendations: It is recommended that Western Development Division adopt and take steps to have implemented the following management structure for ARS:

a. Since the utility of the ARS transcends the interests of the Air Force, and because of the necessity of having high level interdepartmental cognizance of the ARS program, the Operations Coordinating Board of the Executive Office of the President augmented by the Intelligence Chiefs of the three services, should be kept informed on at least an annual basis of the program and its progress, and should submit such advice and recommendations to the program managers as the OCB may deem necessary.

b. Because of the sensitive security nature of the ARS program and the consequent necessity to limit Air Staff and CSAF review to the essential program funding, together with review and approval of those items requiring consideration by the Secretary of the Air Force, should be undertaken by the Air Force Ballistic Missiles Committee in executive session. Because of the ARS mission, one representative each from AFOP and AFGIN should be invited to augment the AF-EMC during these sessions. Similar considerations should apply to the OSD-EMC should they be involved.

c. The contact point within the Air Staff and channel to the AF-EMC should be in the office of the DCS/D. Consideration should be given to assigning this function to the Assistant for Special Projects to the DCS/D.

d. Funding for the ARS will be identified in normal Air Force fashion by a single line item in the appropriate Budget Programs. Funding channels will be those currently used by Western Development Division in connection with the ICGM and IREM programs with the exception that DCS/D rather than AFGM would be the Air Staff focal point.

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WDTR 56-113

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Subject: Staff Study - Proposed Management
Procedures for WS 117L

e. As in the case of the ICFM and HUM programs, the Commander, Western Development Division as a Deputy Commander of ARDC is authorized direct correspondence with Hq, USAF but will insure that an essential minimum number of members of the Staff of Hq, ARDC Baltimore are kept fully informed on the program. Initially speaking, this should be limited to the Commander, the Deputy Commander/ Resources, Assistant for Guided Missiles to the Deputy Commander/ Weapons Systems, Chief of the Western Development Division office (WDZGW) and a representative of the Intelligence and Reconnaissance Systems Division, Directorate of Systems Plans (RDEPI). Similar limitations on the number of persons in Hq, USAF who are fully informed on the program should be established and maintained.

f. ARDC centers will be involved in the technical development program. This involvement will, in general, be threefold in nature: Accomplishment of technical development, furnishing technical advice and test programs. Each of these activities will be carefully controlled under specific authorization from Western Development Division on the basis of system necessity and economy consistent with the overall program of the prime system contractor. As of the present the following ARDC center efforts are contemplated:

(1) WADC - development of nuclear APU converter, backup investigations in the forrest and visual reconnaissance areas and in the propulsion and solar APU areas.

(2) AFRCG - determination of critical environmental data, e.g. the spatial and size distribution and velocity of meteors and micrometeorites.

(3) RADC - intelligence parameters and processing, acquisition, tracking, ground space communications and command.

(4) AFMTC - development test flights.

(5) HADC - launching of upper atmosphere probing rockets to collect environmental data.

The requirements for ARDC center participation in WS 117L will be considered insofar as the individual center can make a timely contribution as determined by Western Development Division based upon unique technical capability in the center not generally extant within the prime contractor's organization.

The requirements for possessing system information will vary from center to center and task to task and will have to be individually released through designated point-of-contact for WS 117L in each center.

g. The role of R-W in support of WS 117L will be that specified in letter dated 10 September 1956 from the Commander, Western Development to the Ramo-Woolridge Corporation, Attn: Dr. Ramo, Subject: "R-W Responsibility in Connection with the WS 117L program".

[REDACTED]

[REDACTED]

WDTR 56-113

[REDACTED]

Subject: Staff Study - Proposed Management
Procedures for WS 117L

h. It is proposed to document the ARS program in accordance with procedures outlined in ARDC Manual 80-4. Dissemination of the documentation will be limited to those persons with specific need-to-know as determined by the Assistant for WS 117L, Technical Operations, Western Development Division. Order

i. Western Development Division will establish necessary liaison to accomplish development of WS 117L.

j. Specific action for the implementation of these recommendations is put forward in paragraph 5, below.

3. Facts Bearing on the Problem.

a. The ARS, unlike most other Air Force Weapons Systems, has direct implications and utility transcending the Air Force itself. Information provided by the ARS will be essential to the decision making apparatus and intelligence activities of the other military services, the Defense Department, the State Department, the Central Intelligence Agency, and after evaluation and analysis by these agencies, to the President and the National Security Council.

b. Western Development Division has, by ARDC SDD No. 117L, 17 August, 1956, (Inclosure 2) been assigned responsibility for and directed to implement development of the Advanced Reconnaissance System (ARS), WS 117L as presented in the System Development Plan on the same subject, 2 April 1956.

c. While SDD No. 117L provides for only \$3,000,000 in initial funding for FY 1957, there is valid reason to believe that this funding can and will be increased by Hq USAF in the near future to a figure more closely aligned with the approved ARS development plan. Hence, early decision in the subject problem is indicated.

d. Particularly high security sensitivity is associated with the ARS as a national reconnaissance effort since compromise or premature disclosure of this endeavor could result in serious national embarrassment and possible subsequent loss in the operational utility of the system and the resulting intelligence. For this reason, special security procedures are an important factor in the management of ARS and are directed in SDD No. 117L.

e. Since the ARS is based upon use of the SM-65 (less nose cone) and possibly the SM-68 (less nose cone) as a booster, there is an interaction between WS 107A and WS 117L. This implies that a certain degree of knowledge of the ARS will be required by the AF-PMC and, possibly the OSD-PMC. 7

f. If ARS funding is subjected to current normal Air Force Procedures and is included as a line item in the Air Force budget (as is the present case), then careful consideration will have to be given to control of the flow of sensitive project information. In the case of the usual R & D program, project information (classified or unclassified) gets widespread dissemination both within and without the Air Force as a result of repeated budget defenses and as a result of ARDC Manual 80-4 document dissemination procedures.

[REDACTED]

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Subject: Staff Study - Proposed Management
Procedures for WS 117L

g. Because of the complex nature of the ARS, several sub-contractors to Lockheed will be involved. This will make for a complex industrial security procedure.

h. The present WS 117L Development Plan allows for only a limited number of flights within each of the eight programs. WDTR is presently initiating a request for studies regarding operational responsibility for the System.

4. Discussion:

a. While the Air Force is uniquely qualified to serve as executive agent for development and operation of the ARS (because of the basic Air Force mission as well as the strong interrelationship between WS 117L and WS 107A); the system is of concern to all three military services, the CIA and the Department of State. Appropriate individuals from these agencies should be kept apprised of system development progress and should be allowed to offer advice and recommendations to the ARS managers so that, to the extent feasible, the needs of these agencies can be reflected in the development program.

b. Several possibilities exist as to the place, organizationally, where such interdepartmental representation (as described in 3a, above) could be dealt with. They are:

(1) The Operations Coordinating Board (OCB) of the Executive Office of the President which is, in essence, the executive arm of the National Security Council.

(2) The Intelligence Advisory Committee (IAC) to the Director of Central Intelligence. The latter, who is also Director of CIA, is statutorily responsible to the President and the NSC. Represented on the IAC are the Intelligence Chiefs of the three services, of OSD, of State, of CIA, of the FBI, and of the AEC.

(3) The NSC, itself.

(4) An ad-hoc group (which could be established on invitation from the Secretary of the Air Force).

c. For the present, at least, it is doubtful that the NSC, itself, need be kept informed on the ARS detail. The NSC must, of course, be kept aware of the endeavor in general terms. Since the ARS has a psychological warfare as well as an intelligence aspect, the IAC is probably not the ideal solution. Neither is the "ad-hoc group" since the membership of the group would have no central purpose or responsibilities, per se, beyond the ARS. There are several reasons for favoring the OCB as the interdepartmental agency which is to be kept informed and which is allowed to offer advice and recommendations on the program. These are:

(1) The basic concept of the ARS involves important questions of national policy. The OCB as executive agent of the NSC must be kept aware of such ramifications.

[REDACTED] [REDACTED]

[REDACTED]

Subject: Staff Study - Proposed Management Procedures
for WS 117L

(2) The OCB is responsible for psychological warfare operations in the U. S. Government.

(3) The level of representation found in the OCB is such that "project engineering" and "pet ideas" should be minimized.

(4) The OCB is used to dealing with sensitive projects.

(5) Both organizationally and by virtue of its membership, the OCB is in an excellent position to provide top level support to the prosecution of the AFS program. Provision should be made, however, to invite Intelligence Chiefs of the services to presentations to the OCB.

d. Funding a program as large as the ARS by "dummy" line items in the Air Force Budget or concealing the program under other Air Force or other departments, budget items would only result in making more difficult the efficient direction of the effort from the Western Development Division level. This indicates that the ARS should be made a line item in the Air Force budget under the current structure. The place in the financial end of the program where the dilution of security can come is not with the amount of funds but in repeated justifications before organizationally widespread groups in Hq ARDC, the Air Staff and OSD.

e. The best mechanism for avoiding the "budget justification security dilution" problem raised in 3d above, which is presently available, is the AF-DMC, with the proviso that only the actual DMC members are truly informed on the program. In view of the usual relatively large attendance at AF-DMC meetings, however, it is considered essential that ARS presentations be given to the AF-DMC during executive session. Single representatives from AFMCP and AFQIN should be invited for such presentations.

f. Because of the technical complexity of the program, it is suggested that the office of the DCS/D rather than the Assistant Chief of Staff for Guided Missiles be the Air Staff focal point for WS 117L. An office such as the Assistant for Special Projects (to the DCS/D) could be considered for actual program actions.

g. In order that the WS 117L project office be in the best position to do its job, liaison access to two different groups of activities outside of the normal R & D channels and contacts should be established. These are:

(1) Intelligence planners in the three services, OSD and CIA, for the purpose of insuring that the intelligence parameters used in development of ARS are valid and current.

(2) Developers and/or operators of other reconnaissance activities in order that best advantage can be taken of developments and experience in these projects. These activities need not have complete knowledge of the ARS program.

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Subject: Staff Study - Proposed Management
Procedures for US 117L

5. Implementation:

a. As a first step, it is proposed that the Western Development Division position as outlined in paragraphs 2a through 2i, above, serve as an attachment to a personal letter from General Schriever to General Power which covers the need for a special management structure for the AFS. Proposed drafts of such correspondence are Inclosure 3.

b. If General Power approves the proposed Western Development Division position or something along these lines, then the result should be sent to General Putt in a similar fashion. General Putt would then be asked to secure the necessary OSAF approval and implementing instructions.

c. Because of the complicated nature of the problem, it is suggested that the above be handled on a personal basis rather than on a formal basis.

SIGNED

3 Incls:

1. Memo to Cmdr Truax
Subj: 117L Management (Uncl)
2. ARDC SDD No. 117L - 3 page
(SECRET) WD-56-02519
3. Ltr to Gen. Power (Rough Draft)
1 page (SECRET) with 1 Incl.
(Rough Draft) Management
Structure) (SECRET) WDTR 56-113

FREDERIC C. E. ODER
Lt. Colonel, USAF
Assistant for US 117L
Technical Operations

ROUGH DRAFT

**DOWNGRADED AT 10 YEAR
INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10**

Lt. General Thomas S. Power
Commander
Air Research and Development Command
P.O. Box 1395
Baltimore, Maryland

Dear General:

Since it is quite likely that the Advanced Reconnaissance System (ARS 117L) development program will get underway at a reasonable level of effort in the near future, I consider it necessary to propose for your consideration, a management structure for the ARS. The proposed structure is conditioned by three factors:

- a. The fact that the utility of and interest in the results from the ARS will transcend the Air Force.
- b. The requirement for special security precautions inherent in a national reconnaissance system. This is emphasized in paragraph 4 of the Hq ARDC System Development Directive No. 117L.
- c. The advisability of somewhat similar management programs for all of our programs in order that WDD not be subject to an unnecessary variety of procedures.

I have inclosed for your consideration our present thinking on this subject. Your comments and/or approval would be appreciated. If you agree, I would like to present the proposal to General Futt with the request that he secure necessary approval from the Secretary's Office together with implementing instructions.

Sincerely,

1 Incl:
Management Structure

D. A. SCHNEVER
Major General, USAF
Commander

WDTR 56-113

ROUGH DRAFT I

It is recommended that the following management structure be adopted for ARS:

1. Since the utility of the ARS transcends the interests of the Air Force, and because of the necessity of having high level inter-departmental cognizance of the ARS program, the Operations Coordinating Board of the Executive Office of the President augmented by the Intelligence Chief of the three services, should be kept informed on at least an annual basis of the program and its progress, and should submit such advice and recommendations to the program managers as the OCB may deem necessary.

2. Because of the sensitive security nature of the ARS program and the consequent necessity to limit Air Staff and OSAF review to the essential program funding, together with review and approval of those items requiring consideration by the Secretary of the Air Force, should be undertaken by the Air Force Ballistic Missiles Committee in executive session. Because of the ARS mission, one representative each from AFOP and AFOW should be invited to augment the AF-44C during these sessions. Similar considerations should apply to the WED-44C should they be involved.

3. The contact point within the Air Staff and channel to the AF-44C should be in the office of the DCS/D. Consideration should be given to assigning this function to the Assistant for Special Projects to the DCS/D.

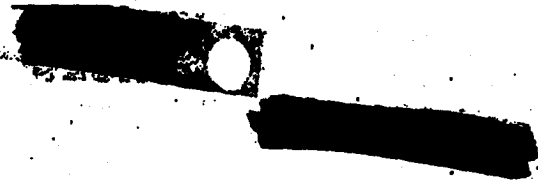
4. Funding for the ARS will be identified in normal Air Force fashion by a single line item in the appropriate Budget Programs. Funding channels will be those currently used by Western Development Division in connection with the ICBM and IRBM programs with the exception that DCS/D rather than AFCCM would be the Air Staff focal point.

5. As in the case of the ICBM and IRBM programs, the Commander, Western Development Division as a Deputy Commander of AEDC is authorized direct correspondence with Hq USAF but will insure that an essential minimum number of members of the Staff of Hq AEDC Baltimore, are kept fully informed on the program. Initially speaking, this should be limited to the Commander, the Deputy Commander/Resources, Assistant for Guided Missiles to the Deputy Commander/Weapons Systems, Chief of the Western Development Division office (RDZGW) and a representative of the Intelligence and Reconnaissance Systems Division, Directorate of Systems Plans (RDZPT). Similar limitations on the number of persons in Hq USAF who are fully informed on the program should be established and maintained.

6. AEDC centers will be involved in the technical development program. This involvement will, in general, be threefold in nature. Accomplishment of technical development, furnishing technical advice and test programs. Each of these activities will be carefully controlled under specific authorization from Western Development Division on the basis of system necessity and economy consistent with the overall program of the prime system contractor. As of the present the following AEDC center efforts are contemplated:

(1) WADC - development of nuclear APU converter, backup in investigations in the ferret and visual reconnaissance areas and in the propulsion and solar APU areas.

ROUGH DRAFT



(2) AMCRC - determination of critical environmental data, e.g. the spatial and size distribution and velocity of meteors and micrometeorites.

(3) AFDC - intelligence parameters and processing, acquisition, tracking, ground space communications and command.

(4) AFMTC - development test flights.

(5) AFDC - launching of upper atmosphere probing rockets to collect environmental data.

The requirements for AFDC center participation in WS 117L will be considered insofar as the individual center can make a timely contribution as determined by Western Development Division based upon unique technical capability in the center not generally extant within the prime contractor's organization.

The requirements for possessing system information will vary from center to center and task to task and will have to be individually released through designated point-of-contact for WS 117L in each center.

7. The role of R-W in support of WS 117L will be that specified in letter dated 10 September 1956 from the Commander, Western Development to the Ramo-Wooldrige Corporation, Attn: Dr. Ramo, Subject: "R-W Responsibility in Connection with the WS 117L program".

8. It is proposed to document the AFS program in accordance with procedures outlined in AFDC Manual 80-4. Dissemination of the documentation will be limited to those persons with specific need-to-know as determined by the Assistant for WS 117L, Technical Operations, Western Development Division.

9. Western Development Division will establish necessary liaison to accomplish development of WS 117L.



SEP 10 1956

WDTR

SUBJECT: R-W Responsibility in Connection with the
WS 117L Program

TO: Ramo-Wooldridge Corporation
ATTN: Dr. Ramo

1. For some time, the obligation undertaken by the Ramo-Wooldridge Corporation on behalf of the Western Development Division has included certain tasks in support of USAF interest in satellite vehicles. The purpose of this letter is to define further the specific future duties seen for the Ramo-Wooldridge Corporation in connection with the recently approved Weapons System 117L (Advanced Reconnaissance System (ARS)), management responsibility for which has been assigned to the Western Development Division. The following guidance is to enable continued planning by your company to provide these services. Separate action is currently being taken to revise the work statement of Contract AF 18(600)-1190 to properly include the requirements of this letter.

2. In general, the WS 117L program encompasses a system development contract plus supporting technical development at a number of ARDC centers. The Air Force plans to contract with the Lockheed Aircraft Corporation for the development of the ARS. Lockheed will be the prime systems contractor and have overall systems responsibility.

3. A part of the ARS program involves very close interaction with the WS 107A program. Also, it is important that the WS 117L program be carried out with minimum interference to the WS 107A program and maximum mutual support between the two programs. In those areas of interaction between WS 107A and WS 117L, in particular, the integration of the powered orbiting vehicle with the ICBM vehicle from both the development and testing point of view, the Ramo-Wooldridge Corporation will provide technical advice and studies, as needed, to the Assistant for WS 117L, Technical Operations, WDD, for assistance in his direction of the program. Ramo-Wooldridge will also be responsible for furnishing similar technical support on the problems of the ICBM-ARS integration to other participants in the ARS program as requested by the Assistant for WS 117L.

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DECLASSIFIED. DOD DIR 5200.10

WDTR-56-124

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[REDACTED] [REDACTED]
WDTR, WDD (ARDC), Subj: R-W Responsibility in Connection with the
WS 117L Program

4. An additional area in which the assistance of the Ramo-Wooldridge Corporation is desired is in conducting, on request of the Western Development Division, such additional systems studies, review and criticisms of various reports, proposals, and technical work statements, and operational research studies as may be required to permit the Western Development Division to intelligently guide the efforts of the prime systems contractor and the related technical development program.

5. It is felt that the above functions could best be performed by a nucleus of permanent Ramo-Wooldridge personnel who would become intimately familiar with ARS problems, supplemented from time to time by other specialists as the problems at hand may require. For planning purposes, it is estimated that for the balance of FY 1957 the engineering manpower required of the Ramo-Wooldridge Corporation for the WS 117L program will be about six full time engineers or scientists.

6. The security factor of your participation in the ARS program will require special consideration. Particularly high security sensitivity is associated with the ARS as a national reconnaissance effort since compromise or premature disclosure of this endeavor could result in serious national embarrassment and possible subsequent loss in the operational utility of the system and the resulting intelligence. For example, the very fact that the USAF has an approved satellite program is, in itself, classified as SECRET information.

SIGNED

O. J. RITLAND
Colonel, USAF
Commander

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WDTR-56-124

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SEP 10 1956

SUBJECT: R-3 Responsibility in Connection with the
WS 117L Program

TO: **Ramo-Woodbridge Corporation**
ATTN: Dr. Ramo

1. For some time, the obligation undertaken by the Ramo-Woodbridge Corporation on behalf of the Western Development Division has included certain tasks in support of USF interest in satellite vehicles. The purpose of this letter is to define further the specific future duties seen for the Ramo-Woodbridge Corporation in connection with the recently approved Weapons System 117L (Advanced Reconnaissance System (ARS)), management responsibility for which has been assigned to the Western Development Division. The following guidance is to enable continued planning by your company to provide these services. Separate action is currently being taken to revise the work statement of Contract AF 18(600)-1150 to properly include the requirements of this letter.

2. In general, the WS 117L program encompasses a system development contract plus supporting technical development at a number of ASEC centers. The Air Force plans to contract with the Lockheed Aircraft Corporation for the development of the ARS. Lockheed will be the prime systems contractor and have overall systems responsibility.

3. A part of the ARS program involves very close interaction with the WS 107A program. Also, it is important that the WS 117L program be carried out with minimum interference to the WS 107A program and maximum mutual support between the two programs. In those areas of interaction between WS 107A and WS 117L, in particular, the integration of the powered orbiting vehicle with the ICM vehicle from both the development and testing point of view, the Ramo-Woodbridge Corporation will provide technical advice and studies, as needed, to the Assistant for WS 117L, Technical Operations, WED, for assistance in his direction of the program. Ramo-Woodbridge will also be responsible for furnishing similar technical support on the problems of the ICM-ARS integration to other participants in the ARS program as requested by the Assistant for WS 117L.

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INTERVALS; NOT AUTOMATICALLY
DECLASSIFIED

Handwritten notes and signatures in the left margin:
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TO: **WDS**
DATE: **22 Aug 56**

OFFICE OF ORIGIN	TYPIST:
DATE:	PAGE NO:



MEMO, WED (AMRS), Subj: R-N Responsibility in Connection with the WE 117L Program

RECIPIENTS OF MEMORANDUMS SHOULD BE SPECIFIED IN THE "TO" BLOCK IN ORDER OF DESIRED PRIORITY.
DESIGNATION OF THE OFFICE OR DIVISION TO WHICH COPIES OF THIS MEMORANDUM WILL BE FORWARDED SHOULD BE SPECIFIED IN APPROPRIATE BLOCK

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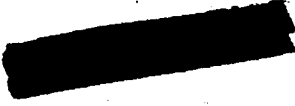
4. An additional area in which the assistance of the Hans-Healdridge Corporation is desired is in conducting, on request of the Western Development Division, such additional system studies, review and criticisms of various reports, proposals, and technical work statements, and operational research studies as may be required to permit the Western Development Division to intelligently guide the efforts of the prime system contractor and the related technical development program.

5. It is felt that the above functions could best be performed by a nucleus of permanent Hans-Healdridge personnel who would become intimately familiar with AMS problems, supplemented from time to time by other specialists as the problems at hand may require. For planning purposes, it is estimated that for the balance of FY 1957 the engineering manpower required of the Hans-Healdridge Corporation for the WE 117L program will be about six full time engineers or scientists.

6. The security factor of your participation in the AMS program will require special consideration. Particularly high security sensitivity is associated with the AMS as a national reconnaissance effort since compromise or premature disclosure of this endeavor could result in serious national embarrassment and possible subsequent loss in the operational utility of the system and the resulting intelligence. For example, the very fact that the WWP has an approved satellite program is, in itself, classified as SECRET information.

[Signature]
G. S. STANARD
Director, WWP
Communications

OFFICIAL FILE COPY
WDTR
Office of Record



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[REDACTED]

Policy

WS 117L Reports

WDSIT

WDTR

5 Sept. 56 Lt. Herthor/dh/1344

1. A working arrangement has been established between WDTR and WDSIT whereby dissemination of all reports and/or information relating to WS 117L (Project 1115, ARS, or Rand Project Feedback) will be limited and specific authority for release of such documents will be obtained from the Western Development Division, Assistant for WS 117L, Lt. Colonel, Frederic C. E. Oder. This policy is to be continued, and for your information, the appropriate paragraph on security is quoted from ARDC System Development Directive SDD No. 117L, dated 17 August 1956:

"4.4.(d) (1) Security - Maintenance of special security restrictions on information relating to development progress, system status, and planned operational capabilities is directed. A master security classification guide for WS 117L will be prepared, and a roster maintained of individuals whose position known to your organization requires overall knowledge of the sensitive aspects of the WS 117L development program. An up-to-date copy of this roster will be submitted for retention at this Headquarters."

2. ARDC System Requirement No. 5, dated 17 October 1955 still applies and a general security guide is outlined therein.

3. The purpose of this DF is primarily to point out the special need for strict interpretation of "need-to-know" on this weapon system, and in particular to point out that a general need-to-know does not exist for all WDD, R-W or EMO.

4. This policy will now apply to all documents generated by R-W related to WS 117L and on the general subject of satellites. In particular, the document accession list dated 24 August 1956 references at least three reports with no indication of a limited distribution. They are as follows:

56-5304 - Heat dissipation in the ARS vehicle 17 July 1956
R-W GM 42-37 (S).

56-5320: Attainment of Satellite Orbit in Quasi - Flat Earth
Approximation 16 May 1955 - R-W GM 27L.1722 by
J. M. Richardson (S).

56-5393 A Note on the Optimum Firing Program for Satellite Orbit
2 August 1955 - R-W by G. F. Carrier (C)

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DECLASSIFIED. DOD DIR 5200.10

[REDACTED]

WDTR 56-138

[REDACTED]

Subject: WS 117L Reports

[REDACTED]

5. Since R-W is on contract with the Air Force to perform studies relating to WS 117L, and the mere fact that the Air Force is engaged in a satellite program is classified secret, it is requested that the same "limited distribution" criteria be applied.

SIGNED

FREDERIC C. K. ODER
Lt. Colonel, USAF
Assistant for WS 117L
Technical Operations

*How is this reconciled
with Hq WRA7 statement
that "WS 117L, ARS" "Air Reconnaissance
Satellite"
is an unclassified
subject when continued.*

[REDACTED] *li 25/4/56*
MEMORANDUM FOR: Colonel Terhune

SEP 5 1956

SUBJECT: Report of Trip 28 - 30 August 1956

1. I accomplished the handcarrying of the letter requesting additional funds for WS 117L per year original instructions. In capsule I received a favorable reception both at ARBC and in the Pentagon, but due to General Putt's absence in Europe until 15 September, I was unable to get a firm Hq. USAF commitment regarding the funds requested.

2. The trip through Baltimore was quite easy due to the cooperation of Colonel Worthman and his office. We jointly wrote the first incurrence and after getting it approved in draft with some minor modifications by General Ostrander, we secured the required coordination of the comptroller and programming people and got it signed out by General Ostrander (Copy attached). I delivered the letter through the DCS/D mail room to Colonel Finton, General Putt's Executive Officer. Colonel Finton expressed complete confidence that we would receive the funds that we had requested because of General Putt's strong interest in the system and because of his specific instructions to both General Stranathan and to Colonel Rogers during the last week. Colonel Finton stated that the letter would be sent to Colonel Rogers, Assistant for development programming for action, and that he would keep a close check on the action being taken. He also agreed that he would inform us through Colonel Worthman of any significant developments. I then discussed the letter with Colonel Rogers and with his Budget Officer, Colonel Reber. They did not seem to question that we would get the money but were more concerned as to how they were going to make it available. Colonel Reber had several questions regarding the non-600 money which I answered to his satisfaction. I then outlined for them the process by which the estimate had been reached, and this they thought was a reasonable action. I also discussed more fully with them our presently contemplated activity regarding the IAG contract, and reemphasized the need for a timely decision regarding additional funding. Colonel Reber agreed that we should have word from them not later than 15 October as to the specific action that they were going to take. I offered to stay around in the Pentagon and assist in getting the request underway for the non-600 money (since they were not sure until General Putt returns just what route they were going to go for the 600 money) but Colonel Reber indicated that he felt he had adequate information on which to act and would not need me to stay. I offered the services of our office to give them further information should such be required in regard to this critical funding problem. One fact which bears upon the speed with which they can act is that DCS/D has yet to receive the FY 57 P-600 apportionment. The Air Force budget recently submitted, contained \$610,000,000 in P-600. Congress voted \$710,000,000 and they have requested an apportionment of something over \$650,000,000. Colonel Rogers was not sure whether they would get what they had asked for, more, or less. Based upon information received in Baltimore, I suggested to them several specific programs which had either been deferred or cancelled for other reasons than funding as sources from which the necessary 600 funds could be transferred. From their reaction to one of these it was my conclusion that this was what they had in mind in providing money for 117L.

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

[REDACTED] ①
WDTR-56-136

[REDACTED]

MEMO FOR: Colonel Terhune

SUBJECT: Report of Trip 28 - 30 August 1956

3. While I was in the Pentagon I also determined that the request for a contractual determination and finding for the ARS would probably be signed out by the end of the week. The actual DF stated something to the effect that it was anticipated that approximately \$18,000,000 would be put on the system during this fiscal year, that the initial contract funding would be in the amount of \$3,000,000.

4. Other than keeping in touch with the action being taken by DCS/D in regard to this funding request, no follow up action is required until approximately 10 October at which time if we have not heard we should ask for their decision. We plan to write the contract with Lockheed in such a way that we will have timely notice before Lockheed reaches a certain balance level on the initial \$3,000,000. Tentatively we are thinking of setting this at a 30 day notice when they expect to reach 50% or \$1,500,000.

1 IncI:

1st Inc. Subj: Requirement for
Additional Fy 57 Funds for WS
117L (Uncl.) *see under date*

28 Aug 1956

Fredrick C. E. Galt
Lt. Colonel, USAF
Assistant for WS 117L
Technical Operations