

<p style="text-align: center;">R & D MANAGEMENT REPORT</p> <p style="text-align: center;"> <input type="checkbox"/> SYSTEM <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> TASK <input type="checkbox"/> OTHER </p>	<p>2. REPORTS CONTROL SYMBOL</p> <p style="text-align: center;">ARDC-D15</p> <p>PAGE 1 OF 5 PAGES</p> <p>3. DATE 23 April 1956</p> <p>4. NUMBER 1115</p> <p>5. CENTER</p> <p>7. TECH GROUPING</p>										
<p>4. TITLE</p> <p style="text-align: center;">(UNCL) Advanced Reconnaissance System</p>											
<p>5. APPLICABLE AREAS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">A. <input type="checkbox"/> TECHNICAL</td> <td style="width: 20%;">B. <input type="checkbox"/> TEST</td> <td style="width: 20%;">C. <input type="checkbox"/> FUNDS</td> <td style="width: 20%;">D. <input type="checkbox"/> MATERIEL</td> <td style="width: 20%;">E. <input type="checkbox"/> FACILITIES</td> </tr> <tr> <td>F. <input type="checkbox"/> MANPOWER</td> <td>G. <input type="checkbox"/> PERSONNEL</td> <td>H. <input type="checkbox"/> TRAINING</td> <td>I. <input type="checkbox"/> CONTRACTS</td> <td>J. <input type="checkbox"/> AIRCRAFT</td> </tr> </table>		A. <input type="checkbox"/> TECHNICAL	B. <input type="checkbox"/> TEST	C. <input type="checkbox"/> FUNDS	D. <input type="checkbox"/> MATERIEL	E. <input type="checkbox"/> FACILITIES	F. <input type="checkbox"/> MANPOWER	G. <input type="checkbox"/> PERSONNEL	H. <input type="checkbox"/> TRAINING	I. <input type="checkbox"/> CONTRACTS	J. <input type="checkbox"/> AIRCRAFT
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<p>6. PROGRESS AND/OR STATUS</p> <p>I. <u>TRANSFER OF RESPONSIBILITY</u></p> <p>a. System Requirement No. 5, dated 17 October 1955, assigns responsibility for the Advanced Reconnaissance System No. 117L to Western Development Division, Air Research and Development Command.</p> <p>b. After 1 April 1956, the address for all matters pertaining to this project, identified as Advanced Reconnaissance System Project 1115 (System 117L), will be changed from HDZSOG, Directorate of Systems Management, Detachment #1, Air Research and Development Command, Wright-Patterson Air Force Base, Ohio, to Western Development Division of Air Research and Development Command, 5760 Arbor Vitae Street, Inglewood, California.</p> <p>c. WADC will continue technical and administrative support of Project 1115. Mr. A. L. Bell, WOLN, has been appointed WADC single point of contact with Western Development Division on matters pertaining to the advanced reconnaissance system.</p> <p>II. <u>PROGRESS AND STATUS</u></p> <p>a. This report covers only the progress and status of the "System Integration Program" conducted on Project 1115 through 7 April 1956. The final Management Reports, and other data provided by the participating Centers, Wright Air Development Center, Rome Air Development Center, and Air Force Cambridge Research Center in connection with the "Technical Program" tasks under Project 1115, were forwarded to Western Development Division subsequent to the 15 February 1956 change of address.</p> <p>b. The progress of the System Integration Program is as follows:</p> <p>(1) The System Design Study Contractors: Glenn L. Martin Company, Lockheed Aircraft Corporation, and Radio Corporation of America made presentations on the 1st and 2nd of November 1955, to the Weapon System Project Office and the Technical Advisory Group covering the progress and status of the Advanced Reconnaissance System Design Studies. Three items of significance were: (1) The direction and magnitude of development can be defined at an earlier date than anticipated in System Requirement No. 5, dated 19 November 1954, (2) A first phase of the Advanced</p>											
<p style="text-align: center;"> DOWNGRADED AT 3 YEAR INTERVALS, DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10 </p> <p style="text-align: right;">WD 56 01471</p> <p style="text-align: right; font-size: 2em;">29</p> <p style="text-align: right; font-size: 0.8em;">36002-13763</p>											

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Reconnaissance System Development will include component and sub-system developments culminating in a series of tests including an orbital test vehicle, and (3) Timely initiation of the First Phase of a full scale development program could result in an orbital test vehicle demonstration during the latter part of the year 1958 (IGY), providing the ICBM Program could provide a booster and associated support equipments.

- (2) Following the Contractors Presentations, comments of the Technical Advisory Group indicated that although the Contractor's approaches to the problem were different in details, there were indications of a definite acceleration program capability, and system feasibility was unquestioned. The possibility of terminating the System Design Studies at an early date does exist and it was generally indicated that data necessary for establishing general system parameters was available; however, detailed data for exact system parameters could only be derived from flight test investigations.
- (3) As a result of this information the preparation of plans for expediting the program was initiated. The plans are briefly outlined as follows:
 - (a) Initiate a contract change by approximately 1 December 1955 to the System Design Study Contracts: (Glenn L. Martin Company, Lockheed Aircraft Corporation and Radio Corporation of America) to result in the completion of System Design Studies and the preparation of a System Development Plan by the 15 February 1956.
 - (b) Initiate the Hardware Design Phase of the System Development Program including emphasis on the Test Program for orbital test during (IGY) the latter part of 1958 (this design phase to be a continuation of the Design Study Contracts to keep the system design contractor teams together and working until the prime contractors are selected thus avoiding a shut down and subsequent program delays).

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- (e) Acquire all possible ICBM Booster data in order to assure use of this booster for an early test program.
- (d) Prepare a preliminary system development plan and budget data for forwarding to higher Headquarters, to secure funds for implementation of the program, not later than 1 April 1956.
- (4) A new System Requirement No. 5 dated 17 October 1955 was received which revised System Requirement No. 5 dated 29 November 1954. The new System Requirement establishes The System Management responsibility at Western Development Division and requires that a System Development Plan be prepared by 1 April 1956.
- (5) As the result of the reassignment of responsibility from RDZSGG to Western Development Division it appeared obvious that serious delays in the program would occur unless Western Development Division could become an operational Weapon System Project Office within the immediate future. RDZSGG proceeded immediately to prepare a complete program status presentation supported by a ninety (90) page brochure to cover the essential background and current status of the program. This was presented to General Schriever, General Putt and members of General Schriever's staff on 9 November 1955.
- (6) General Schriever indicated, in the meeting following this discussion, that during the following thirty (30) days Western Development Division would delineate the steps for an orderly transfer of the Advanced Reconnaissance System Program from RDZSGG to Western Development Division, and would coordinate this with General Estes. Western Development Division authorized RDZSGG, in coordination with Western Development Division, to continue business as usual in the direction of the Technical Program and System Integration Studies, except for matters that concern the ICBM Program and the preparation of the System Development Plan. A meeting was held at Western Development Division the week of 3,4,5 January at which time the contractors were advised, by the contracting officer, of the program redirection. The contractor was advised that contracts would be changed to require a system development plan to be completed and submitted to the Air Force prior to 1 March 1956. This System Development Plan was to give emphasis to the Test Program which was to provide an orbital demonstration during the IGY year, or during the latter part of 1958. The contractors were advised that Convair

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Model C (ICBM) boosters could be made available to them. The contractors were given a briefing of engineering data concerning this particular model of the ICBM booster.

- (7) Western Development Division advised RDZSGG Weapon System Project Office that Headquarters USAF had requested a preliminary, or tentative, Advanced Reconnaissance System Development (Test Phase) Plan to be presented on or before 17 January 1956 for consideration. During the week of 9-13 January, the tentative Advanced Reconnaissance System Development (Test) Plan was prepared for Western Development Division; it indicated a method of approach, with an estimate of requirements for the First Phase, of Advanced Reconnaissance System Development (Test) Program, featuring an orbital satellite demonstration during the IOY 1958. The plan was presented to higher Headquarters by Western Development Division.
- (8) The transfer of functional responsibility for Advanced Reconnaissance System Program is delineated in a "Memorandum of Understanding" dated 13 January 1956 between Brig General H. M. Estes, Directorate of Systems Management, AFDC Detachment No. 1 and Major General B. A. Schriever, Deputy Commander of Western Development Division. Briefly it is indicated that on or about 15 February 1956 the official Project address will be Western Development Division. However, it was also indicated in this memorandum that RDZSGG would conduct the Technical Evaluation of the Advanced Reconnaissance Design Studies (to be completed by the Lockheed Aircraft Corporation, Radio Corporation of America and Glenn L. Martin Company), and assist Western Development Division in the preparation of System Development Plan.

c. Prior to completion of this Technical Evaluation by RDZSGG the Weapon System Project Office, Western Development Division, issued orders (SO # 6 dated 5 March 1956) establishing a Source Selection Board with the President appointed from Detachment # 1, Headquarters Air Research and Development Command. The Source Selection Board sat in session concurrent with the Technical Evaluation Team. The System Design Study Technical Evaluation Reports, submitted by the Laboratories of the Participating Centers, (Wright Air Development Center, Rome Air Development Center and Air Force Cambridge Research Center), were summarized by the Advanced Reconnaissance System Project Office Technical Evaluation Team and transmitted to the Chairman of the Source Selection Board. Concurrently,

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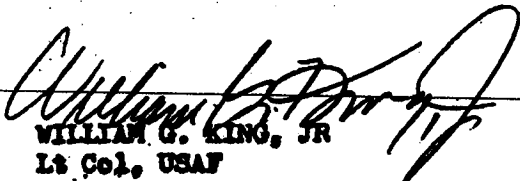
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an AMC evaluation board was established and transmitted an evaluation report to the Source Selection Board. The evaluation results, provided by the Weapon System Project Office (RDZSGG - Detachment # 1, Air Research and Development Command) and the AMC Evaluation Team, were submitted to Western Development Division on 23 March 1956, as inclosures to the Source Selection Board Report on "Evaluation of the Advanced Reconnaissance System No. 1171".

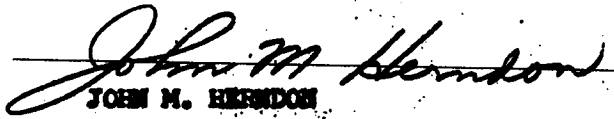
d. At the request of Western Development Division the Advanced Reconnaissance System Project Office personnel and key personnel of the Advanced Reconnaissance System Technical Advisory Group prepared a draft of an Air Force System Development Plan for the Advanced Reconnaissance System No. 1171. This draft was prepared at Western Development Division during the latter part of March 1956.

e. The administrative files and official documents relating to the program were forwarded to Western Development Division prior to 7 April 1956.

f. The submission of Evaluation Reports, and Development Plan Draft, and files as indicated above concludes the participation of the Weapon System Project Office for the Advanced Reconnaissance System (RDZSGG).



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