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VOLUME TWO

DOCUMENT HISTORY OF WS 117L (1946 TO REDEFINITION)



HISTORY OFFICE
CHIEF OF STAFF
SPACE AND MISSILE SYSTEMS ORGANIZATION
AIR FORCE SYSTEMS COMMAND

2-3

DOWNGRADED AT 12 YEAR
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Prepared by

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November 1971

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8. Report, Project RAND Communication and Observation Problems of a Satellite, RA-15028, title page and summary only, 1 Feb 47.
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10. Report, Project RAND Proposed Type Specification for an Experimental Satellite, RA-15031, title page and introduction only, 1 Feb 47.
11. Report, Project RAND Reference Papers Relating to a Satellite Study, RA-15032, title page and summary only, 1 Feb 47.
12. Ltr (C), TSBOW, BrigGen Alden R. Crawford to CofS, USAF, subj: Project RAND, Satellite Vehicle, 8 Dec 47.
13. Memo (C), LtGen H. A. Craig to VCofS, subj: Earth Satellite Vehicle, 12 Jan 48, w/1 Incl, Statement of Policy for a Satellite Vehicle, signed Gen Hoyt S. Vanderberg, VCofS, USAF.
14. Ltr (C), MajGen L. C. Craigie, to CG, AMC, subj: Satellite Vehicles, 16 Jan 48, w/o Incl.
15. Ltr (C), Gen Crawford to Douglas Aircraft Co., Inc., subj: Satellite Project, 17 Feb 48.

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33. Memo, RDESS/Maj Robert T. Franzel to LtCol Genes, subj: Satellite Recon System (RB-65), 4 May 54.
34. PDD No. 1115, 14 Sep 54; Amendment No. 2, 2 Aug 55.
35. Memo, WDF, Col Charles H. Terhune, Jr., to Col Sheppard, subj: Proposed Visit of Majors Green and Riepe, WADC Project Officers for 1500-Mile Tactical Missile and Satellite, Respectively, to WDD, 3 Nov 54.
36. Msg, Comdr WADC to WDD, 031700Z Nov 54.
37. SR No. 5, 29 Nov 54; Amendment No. 1, 8 Aug 55.
38. DF, WCSG to WCIFP, subj: Project Nickname, 14 Dec 54; Comment No. 2, 17 Dec 54.
39. History, Project 1115 Background, 31 Dec 54.
40. Memo, WDFP, LtCol Otto J. Glasser, for Col Terhune, subj: Lockheed General Consulting Study, 3 Feb 55.
41. Ltr, WDD, BrigGen B. A. Schriever, to LtGen D. L. Putt, 4 Feb 55.
42. Memo, WDFP, LtCol E. N. Hall, to Col Charles H. Terhune, Jr., subj: Trip Report, 2 to 10 March 1955, w/1 Incl: Appendix "A," Comments Concerning Tentative Agreement Reached Between North American Aviation, Inc., and Rolls Royce.
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44. Memo, Sibyl Kent to Col Terhune, (Re visit by Col Genes), 16 Mar 55.
45. Memo, WDG, for Gen Power, subj: Redstone - Scientific Satellite, 30 Mar 55.
46. Ltr, BrigGen B. A. Schriever to MajGen S. R. Harris, Comdr, AEDC, no. subj, 1 Apr 55.
47. Memo (S), WDG, BrigGen B. A. Schriever to Col Terhune, subj: Satellite Development Plan, 15 Apr 55.
48. Ltr, WDD, MajGen B. A. Schriever, to Comdr AMC, subj: WS 117L Source Selection Board, 27 Apr 55.

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50. Memo for General Schriever from Czpt Babcock, subj: Item for Staff Meeting, 9 May 55.
51. Memo, WDG, for Dr. Ramo, subj: Scientific Satellite, 10 Jun 55.
52. Memo, WDG, C. H. T. for General Schriever, subj: Visit of DOD Satellite Committee - 28 Jun 55, 28 Jun 55.
53. Memo, WDEK, Col Harold W. Norton, for Gen Schriever, subj: Satellite Presentation, 8 Jul 55.
54. Memo, WDEK, Col Harold W. Norton, for Col Terhune, subj: Scientific Satellite, 12 Jul 55.
55. Minutes of Staff Meeting, WDD, 21 Jul 55.
56. Memo, WDFD, Col Charles H. Terhune, Jr., to Ramo-Wooldridge, subj: Program Data for the Advanced Reconnaissance System, 1 Aug 55.
57. Memo, WDG, BrigGen Schriever, for Col Terhune, subj: Scientific Satellite, 22 Aug 55.
58. Report, WDGH, A. Rockefeller, Jr., subj: Convair Presentation, 29 Aug 55, 30 Aug 55.
59. MFR, LtCol Frederic C. Oder, subj: Telephone Conversation with Colonel Genex, 9 Sep 55.
60. Msg, Comdr WDD to Comdr ARDC, 192300Z Sep 55.
61. Msg, Comdr WDD to Comdr ARDC, 192330 Sep 55.
62. MFR, WDFD/Col Harold W. Norton, subj: Attendance at ARS Conference, Wright-Patterson Air Force Base, 22 Sep 55.
63. DF, RDGB to WDD, subj: Weekly Diary Items, 26 Sep 55.
64. Memo, WDTSP, BrigGen B. A. Schriever, for Col Terhune, subj: Additional Tasks Assigned to the Ramo-Wooldridge Corporation, 3 Oct 55.
65. Memo, WDTSP/LtCol C. E. Hughes, for Col Terhune, subj: Status of Action Taken to Fund the R-W Contract Over-run, 7 Oct 55.
66. Memo, WDFD/Col Harold W. Norton, to Gen Schriever, subj: Satellites 7 Oct 55.

67. DF, WDGB to WDD, Subj: RDGB Weekly Diary Items, 10 Oct 55.
68. ARDC System Requirement No. 5 (C), 17 Oct 55.
69. DF, WDGB to WDD, subj: RDGB Weekly Diary Items, 19 Oct 55.
70. Memo, WDFD/Col Harold W. Norton, to Col Terhune, subj: Miscellaneous Events, 20 Oct 55.
71. DF, WDF to MCPT, subj: The Ramo-Wooldridge Corp., Contract AF18(600)-1190 Proposal for Additional Work Performed Prior to 31 Oct 55, 27 Oct 55.
72. Minutes of Staff Meeting, WDD, 26 Oct 55.
73. Msg, Comdr WDD to Comdr Holloman AFB, 031800Z Nov 55.
74. Memo, WDFSC/Maj George R. Vanden Heuvel, for WDF, subj: Advanced Reconnaissance Satellite (ARS) Program, 4 Nov 55.
75. Ltr, ARDC to BrigGen Bernard A. Schriever, Comdr WDD, no subj: 7 Nov 55.
76. DF, RDGB to WDD, subj: RDGB Weekly Diary Items, 14 Nov 55.
77. Memo, WDFST/Navy Comdr R. C. Truax, to Col Norton, no subj, 14 Nov 55.
78. Ltr, The Ramo-Wooldridge Corporation to Gen B. A. Schriever, subj: ARS Program, 22 Nov 55.
79. Memo, LtCol B. L. Boatman to Col Oder, no subj, 23 Nov 55.
80. Msg, Comdr, Dr of Sys Man Hq ARDC WPAFB Ohio to Comdr WDD, 281539Z Nov 55.
81. DF, RDGB to WDD, subj: Diary for Week Ending 10 Dec 55, 12 Dec 55.
82. Memo (C), USN Comdr R. C. Truax, for Gen Schriever, subj: Program for Execution of WDD Responsibilities with Respect to Pled Piper Project, 16 Dec 55., w/1 Incl: Draft ltr to RCA, Martin and Lockheed.
83. Memo, WDG/MajGen B. A. Schriever, for Colonel Terhune and Dr. Ramo, no subj, 15 Dec 55.
84. MFR, WDFST/USN Comdr R. C. Truax, subj: Report of Trip of 28 Nov - 8 Dec 1955, 16 Dec 55.

85. Msg, Comdr WDD to Comdr, Directorate of Systems Management, Det No. 1, ARDC, Wright-Patterson AFB, 231600Z Dec 55.
86. Ltr, WDFST/MajGen B. A. Schriever, to Comdr RADC, subj: Support of Advanced Reconnaissance System, 23 Dec 55.
87. Ltr, WDFST/MajGen B. A. Schriever, to Comdr WADC, subj: Support of Advanced Reconnaissance System, 23 Dec 55.
88. Ltr, WDFST/MajGen B. A. Schriever, to Comdr AFRC (Cambridge Research Center, subj: Support of Advanced Reconnaissance System, 23 Dec 55.
89. Memo, WDFST/Col Otto J. Glasser, for All WDF Group Chiefs, subj: Advanced Reconnaissance System, Meeting Concerning, 28 Dec 55.
90. MFR, WDF/Col Charles H. Terhune, subj: WDD Position on Holloman Facilities, 27 Dec 55.
91. Ltr, WDS/LtCol John B. Hudson, to Distribution, subj: Reorganization and Realignment of Functions of Technical Operations (WDF), 10 Feb 56.
92. SO No. 6, WDD, 5 Mar 56.
93. Ltr, members of Contractor Evaluation Board, to Comdr WDD, subj: Report of Contractor Evaluation Board, WS 117L, 20 Mar 56.
94. Msg, Comdr ARDC to Comdr WDD, 222015Z May 56.
95. Memo (C), USN Comdr Truax for Col Terhune, subj: Status of WS 117L Program as of 12 Jun 56, 12 Jun 56.
96. PAM No. 16, WDD, 5 Jul 56.
97. Ltr, WDD/MajGen B. A. Schriever to Mr. T. A. Smith, RCA, no subj, 11 Jul 56.
98. Memo, WDGE/LtCol J. L. Hamilton, for Col Ritland, subj: Meeting with Representatives of Cambridge Research Center, 24 Jul 56.
99. Ltr, WDD/Col O. J. Ritland to Mr. James D. McLean, VP & Gen Manager, Philco Corp., no subj, 25 Jul 56.
100. Ltr, WDD/MajGen B. A. Schriever, to Mr. Robert E. Gross, Lockheed Aircraft Corporation, No. subj, 2 Aug 56.
101. Development Directive No. 85 (C) for Weapon System 117L Advanced Reconnaissance System, 3 Aug 56.

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19. Ltr, J. E. Lipp and C. G. Habley, to G. H. Putt, subj: Feed Back History, 28 May 52, w/1 Incl, Notes, Project RAND's Satellite (Nickname: Feed Back).
20. Ltr, BrigGen J. W. Sessums to CG, WADC, subj: Reconnaissance Requirements for Project ATLAS, 19 Jun 52.
21. Ltr, AFDRD-AN to CG, ARDC, subj: Satellite Study, 7 Jul 52.
22. Memo, Maj Robert T. Franzel to Col Fickel, subj: Status Report of Satellite Program, 21 Jul 52, w/notes attached, (1) DD Form 95, Col Fickel to Gen Wood, w/Gen Wood's comment and indorsement to Gen Sessums; (2) Memo, BrigGen J. W. Sessums to Gen Putt, 29 Aug 52; (3) Memo, MajGen D. L. Putt to Gen Wood, 27 Sep 52.
23. Ltr, RDDS to CG, WADC, subj: Satellite Study, 23 Jul 52.
24. Memo, RDDS, for Col Fickel, subj: Funding for Satellite (Project Feedback Budget Item 620-014), 14 Aug 52.
25. DF, RDDS to RDEFP, subj: Project FEEDBACK, 20 Aug 52.
26. DF, RDDAA to RDDS, subj: Feedback, 30 Dec 52.
27. Ltr, The Rand Corporation to MajGen Donald N. Yates, 10 Feb 53.
28. DF, RDDSS to RDDA thru RDDS and RDDD, subj: Future Large Rocket Engine Requirements, 15 Apr 53.
29. DF, RDDSS to RDDSI, subj: Project Feedback, 3 Jun 53, w/o Incls.
30. Report, USAF Project Rand Project Feed Back Summary Report, R-262, Vol I, title page and summary only, 1 Mar 54.
31. Report, USAF Project RAND Project Feed Back Summary Report, R-262, Vol II, title page and foreword only, 1 Mar 54.

102. PAM No. 21, WDD, 16 Aug 56.
103. Ltr, WDIR/USM Comdr R. C. Truax, to Comdr AFPCRC, subj: WS 117L Development Plan, 16 Aug 56.
104. SSD No. 117L (C), ARDC System Development Directive Advanced Reconnaissance System, 17 Aug 56; Amend No. 1, 28 Aug 56; Amend No. 2, no date; Amend No. 3, 15 Jan 58.
105. Ltr, Lockheed Aircraft Corporation to MajGen B. A. Schriever, no subj, 20 Aug 56.
106. MFR (C), LtCol Frederic C. E. Oder, subj: Minutes of Meeting on AFMA participation in WS 117L guidance effort - 22 Aug 56, 24 Aug 56.
107. Ltr (C) WDD/Col Charles H. Terhune, Jr., DC, Technical Operations, to Deputy CofS, Hq USAF thru Comdr ARDC, subj: Requirement for Addition FY 1957 Funds for WS 117L, 28 Aug 56, w/1st Ind, 29 Aug 56.
108. PAM No. 28, WDD, 7 Sep 56.
109. DF, WDS to ADTR, subj: Funds for Contract 3105-Lockheed Design Study, 25 Sep 56.
110. MFR, LtCol Frederic C. E. Oder, subj: Funds for Contract 3105-Lockheed Design Study, 25 Sep 56.
111. DF (C), WDIR to WDT, subj: Summary of Status and Policy Action Required on WS 117L Program, no date, w/1 Incl: Summary of WS 117L Problems Requiring Action.
112. DF, WDIR to WDFD, subj: Organization and Manning for WS 117L Program, 28 Sep 56.
113. Ltr, WDIR/LtCol Frederic C. E. Oder, to Ramo-Wooldridge Corp, subj: Request for Study of WS-65A Performance Relative to WS 117L Flight Test Program, 8 Oct 56.
114. Ltr, The Ramo-Wooldridge Corp, to Col O. J. Ritland, subj: R-W Responsibility in WS 117L Program, 11 Oct 56.
115. Msg (C), Hq ARDC to CofS, Hq USAF, 11 Oct 56.
116. Ltr, WDIR/LtCol Frederic C. E. Oder, to Ramo-Wooldridge Corp, subj: WS 117L Work Under Contract No. AF 18(600)-1190, 12 Oct 56.
117. Msg (C), Hq USAF to Comdr ARDC, Info Comdr WDD, 222021Z Oct 56.

118. Memo (C), WDIR/LtCol Frederic C. E. Oder, for Col Charles H. Terhune, Jr., subj: Trip Report, 31 Oct 56, w/1 Incl: WS 117L FY-57 & 58 Fund Breakdown.
119. PAM No. 40, WDD, 2 Nov 56.
120. Ltr (C), WDIR/Col Charles H. Terhune, Jr., to Director of R&D, Hq USAF, thru Comdr ARDC, subj: Fund Requirements for Weapon System 117L Program, 21 Nov 56, w/1st Ind, 26 Nov 56.
121. Ltr (C), Hq USAF to Comdr ARDC, subj: Requirement for Additional FY 1957 Funds for WS 117L, 10 Dec 56.
122. Ltr (C) WDIR/LtCol Frederic C. E. Oder, to The Ramo-Wooldridge Corporation, subj: Recoverable Payload Package Study, 14 Dec 56.
123. Management Report (C), subj: Advanced Reconnaissance System, 18 Dec 56.
124. PAM No. 48, WDD, 19 Dec 56.
125. Ltr, WDIR/LtCol Frederic C. E. Oder, to Mr. John H. McLachlin, Administrative Contracting Officer, Lockheed Aircraft Corp., subj: Contract No. AF 04(647)-97, The Eastman Kodak Company, 21 Dec 56.
126. Ltr, WDIR/LtCol Frederic C. E. Oder to The Ramo-Wooldridge Corp., subj: WS 117L Work Under Contract No. AF 18(600)-1190, 26 Dec 56.
127. MFR, WDIR/LtCol Frederic C. E. Oder, subj: Telephone Conversation with Mr. J. H. Carter - Lockheed MSD, 28 Dec 56.
128. Ltr (S/RD), WDIR/LtCol Frederic C. E. Oder, to Chief, Aircraft Reactors Branch, Attn: Major G. M. Anderson, Division of Reactor Development, AEC, 28 Dec 56.
129. Evaluation Criteria, Jan 57, w/3 Atechs: (A) Technical Evaluation, (B) Development and Production Aspects; (C) System Management Potential.
130. Memo, WDIR/Col Charles H. Terhune, Jr., for Gen Ritland, subj: ARS Contract Work Statement Definitization Meetings, undated.
131. Ltr (C/RD), WDIR/BrigGen Ritland to Major Gen D. J. Keirn, Chief, Aircraft Reactors Br, Div of Reactor Dev, AEC, no subj, 7 Jan 57.
132. Memo (C), WDIR/LtCol Frederic C. E. Oder to WDIR, subj: Major Events of CY 1956 for WS 117L; 25 Jan 57.

133. Ltr (C), WDER/MajGen B. A. Schriever, to Deputy CofS, Hq USAF, thru Comdr ARDC, subj: Planning and Funding Requirements for WS 117L, 30 Jan 57, w/1st Ind 5 Feb 57, w/5 of 6 Incls; (1) WS 117L FY 58 Fin Plan; (2) Justification for WS 117L Budget, FY 58; (3) FY 58 P-300 Fin Plan; (5) Flight Test Schedule; (6) Summary of TNX of 19 Jul 56.
134. ARDC Form 111, Management Report (C), subj: Advanced Reconnaissance System, 31 Jan 57.
135. Msg, Hq USAF to Comdr WDD, Info Comdr ARDC, 011712Z Feb 57.
136. Memo (C), LtCol Frederic C. E. Oder, for Col Terhune, subj: Visit to Missile Systems Division, Lockheed Aircraft Corporation, 30 Jan 57, 4 Feb 57, w/3 Incls: (1) LAC Organizational Chart; (2) LAC Organizational Chart; (3) Extract MSD 1593, LAC Summary Planning Data.
137. Msg (C), Comdr WDD (WDER 2-2-E), to Comdr ARDC, 9 Feb 57.
138. MFR, Subject: Telephone Call from Mr. Jack Carter, Palo Alto, to General Ritland.
139. Ltr, Eugene S. Silberman, Contracting Officer, to Lockheed Aircraft Corporation, subj: Contract AF 04(647)-97, 11 Feb 57.
140. MFR, WDGE/LtCol J. L. Hamilton, subj: Phone call Between Myself and Colonel Anola - 19 Feb; 19 Feb 57.
141. Ltr (C), Hq USAF to Comdr ARDC, subj: Planning and Funding Requirements for WS 117L, w/1st Ind 13 Mar 57.
142. Ltr (C), Hq ARDC (RDZG) to LtGen D. L. Putt, no subj, 11 Mar 57, w/1 Incl: Ltr fm USNRL to Gen Ostrander, no subj, 6 Mar 57, w/1 Incl: Ltr, from NAS to Dr. Kaplan, 7 Jan 57.
143. Memo (C), WDER/Col Frederic C. E. Oder, for Col Terhune, subj: Trip Report - Colonel Oder and Lt Colonel Riepe to Naval Research Laboratory 12 Mar 57 and Pentagon, 22 Mar 57.
144. Memo (C), WDT/Col Charles H. Terhune, Jr., to Gen Schriever, subj: Letter on WS 117L, 27 Mar 57.
145. Manning Chart, WDFO, 2 Apr 57.
146. Memo, Office of WDD Liaison Officer ABMA, Huntsville, Ala., for General Schriever, subj: Satellite Study, 19 Apr 57.
147. Msg, Comdr WDD to Director of Military Personnel, DCS/P, Hq USAF, 232400Z Apr 57.
148. Memo, WDEI/Col Lawrence D. Ely, for Colonel Charles H. Terhune, Jr., subj: Follow-on Work for WDD, 8 May 57.

149. Staff Summary Sheet (S), Maj Dillon, subj: Air Force Satellite Program, 9 May 57, w/3 Incls: (1) Memo for Deputy Secy of Defense; (2) Summary of The Advanced Reconnaissance System Development; (3) Summary of the Natl Security Council Papers on Satellites.
150. Memo (C), Col Frederic C. E. Oder, for Co. C. H. Terhune, subj: Ability of Aircraft Laboratory of WADC to fulfill WDIR requirements, 9 May 57.
151. Memo, WDIR/Col Edward N. Hall, for Col Terhune, subj: Vanguard, 14 May 57, w/1 Incl of 2: (2) HW Study, Proposed Use of IRBM as Booster for Multi-Stage Vehicles, 1 Apr 57.
152. Memo, Hq USAF/LtGen D. L. Putt, for Chairman Scientific Advisory Board, subj: SAB Special Study of Advanced Weapon Technology and Environment, 15 May 57.
153. Memo (C), Col Charles H. Terhune, Jr., for Gen B. A. Schriever, subj: ARS (Eastman Kodak), 21 May 57, w/1 Incl, Draft ltr to Dr. Chapman.
154. GO No. 19 ARDC 21 May 57.
155. Memo (C), WDIR/Col Charles H. Terhune, Jr., for Col Oder, subj: Charter - WS 117L Site Selection Board WDD, 1 Jun 57.
156. Ltr (C), WDD/MajGen B. A. Schriever to Dr. Albert K. Chapman, no subj, 26 Jun 57.
157. PAM No. 34, WDD, 28 Jun 57.
158. Memo (C), Col Asa B. Gibbs, subj: Revision of the WS-117L Program, 5 Jul 57.
159. Ltr, Lockheed Aircraft Corporation, to Chief, BMO, thru Asst AFPR, Lockheed Aircraft Corp, subj: AF O4(647)-97, 8 Jul 57.
160. DF, MCPTA to MCPT, subj: Weekly Diary - 12 Jul thru 18 Jul 57, 18 Jul 57.
161. Briefing (C), Presentation to the Scientific Advisory Board Ad Hoc Committee to Study Advanced Weapons Technology and Environment, 23 Jul 57.
162. Ltr (C), WDIR/Col Charles H. Terhune, Jr., to Deputy CofS, Development, Hq USAF, thru Comdr ARDC, subj: Program Planning Guidance for WS 117L, 30 Jul 57.
163. Memo (C), WDIR/Col Frederic C. E. Oder, for Col Terhune, subj: First Meeting of the SAB Ad Hoc Committee on Advanced Weapons and Environment, 29-31 Jul 57, 1 Aug 57, w/2 Incls.

164. Memo (C), Col Asa B. Gibbs, subj: Anti-Satellite Missile System, 8 Aug 57.
165. Ltr, Ballistic Missile office/Eugene S. Silberman, Contracting Officer, to Lockheed Aircraft Corporation, subj: Contract AF 04(647)-97, Status of Contract Funds, 13 Aug 57.
166. DF, WDR to WDOIM, subj: WS 117L R&D Manpower Program Summary, 14 Aug 57, w/1 of 2 Incls: (2) DF, WDR to RDZXP, subj: System Development Plan No. 117L, 9 Jul 57, w/1 Incl, RDSO Comments on SDP No. 117L, w/Atch 1, Comparative Manpower Figures of System Development Plan No. 117L & D-33.
167. Memo (C), WDFL/Col Lawrence D. Ely, for Col Terhune, subj: Limitation on P-600 Expenditures, 14 Aug 57.
168. 1st Ind to MCP, Hq AMC, 11 Jul 57, subj: Establishment of ARDC-AMC Weapon System Project Office for the Advanced Reconnaissance System, to Comdr AMC, 16 Aug 57.
169. Ltr, AMC (BMC)/Eugene S. Silberman, Contracting Officer, to Lockheed Aircraft Corporation Thru Asst AF Plant Rep, subj: P-600 Expenditure Ceilings FY 58, 21 Aug 57.
170. Msg, WDR 8-13-E, Comdr AFBMD to CofS, Hq USAF, 28 Aug 57.
171. Ltr (C), Hq USAF/LtGen D. L. Putt, to Comdr ARDC, subj: Program Planning Guidance for WS 117L, 3 Sep 57.
172. Ltr (C), WDR/BrigGen O. J. Ritland, to Director of R&D, Hq USAF, subj: WS 117L Funding FY 58 and FY 59, 19 Sep 57, w/4 Incls: (1) FY 58 Fin Plan Summary; (2) FY 59 Fin Plan Summary; (3) FY 59 Fin Plan Summary Desired Budget; (4) CY TWX, MCPTA-9-1-E, 12 Sep 57.
173. Memo (C), MCPTA/LtCol James S. Seay, to Gen Funk, subj: Possible Items for Discussion at Lockheed Missile Systems Division, 7 Oct 57, w/1 Incl: Cy ltr to LMSD, 23 Sep 57.
174. Msg (C), AFPCGM Cite 51210, to Comdrs AFBMD and BMD, info to Comdr ARDC, 081815Z Oct 57.
175. Msg (C), AFBMD WDG-10-3-E, to CofS USAF, info Comdr ARDC, 090928Z Oct 57.
176. Report (C), title: Report of the Scientific Advisory Board Ad Hoc Committee on Advanced Weapons Technology and Environment, 9 Oct 57.
177. Msg (C), AFBMD WDR 10-8-E, to CofS Hq USAF, Comdrs ARDC and AMC, 10 Oct 57.

178. Memo, Secy of AF James Douglas, for Gen Lemay, subj: WS 117L, 10 Oct 57.
179. Msg (C), Cite AFDRD-SS 51476, 151410Z Oct 57.
180. Ltr (C), Hq USAF/LtGen D. L. Putt to LtGen S. E. Anderson, Comdr ARDC, no subj, 17 Oct 57.
181. Msg (C), AFMPP Cite 51689, 1820257 Oct 57.
182. DF (C), WDTR to WDIO, subj: WS 117L Acceleration, 25 Oct 57.
183. MFR (C), Col Frederic C. E. Oder, subj: Briefing of Deputy Secretary of Defense, Mr. Quarles on WS 117L (ARS) on 16 Oct 57, 25 Oct 57.
184. Memo (C), WDFL/Col Lawrence D. Ely, for General Ritland and Colonel Terhune, subj: Trip Report, 31 Oct 57.
185. Memo (C), Col Frederic C. E. Oder, for Col Terhune, subj: Informal Reaction of the "Stewart" Committee on Special Capabilities to the 18 October Presentation on WS 117L, 31 Oct 57.
186. Msg (C), Cite AFMPP 52291/COM, to Comdr AMC, info Comdr AFBMD, 012034Z Nov 57.
187. News Release 57-13, Subcommittee on Department of Defense Appropriations, Appropriations Committee, House of Representatives, 4 Nov 57.
188. Briefing (C), title: Briefing on WS 117L to the Air Council, 5 Nov 57.
189. Msg (C), Cite AFMPP 52392, 051538Z Nov 57.
190. MFR (C), WDTIA/LtCol Sidney Greene, subj: THOR Space Flight Capability, 8 Nov 57.
191. BSS (C), AFDDC-SP/Col Ralph H. Nunziato, subj: Outer Space Vehicle, 12 Nov 57, w/1 Incl: (1) Proposed Memo for Sig w/1 Incl.
192. Ltr, WDTR/BrigGen O. J. Ritland, to Comdr ARDC, subj: Priority of Systems Developments, 13 Nov 57.
193. Msg (C), Cite TWK11-033, to Comdr AFBMD, 131913Z Nov 57.
194. Msg (C), Cite TWK 11-049, to Comdr AFBMD, 191850Z Nov 57.
195. MFR (C), WDTIA/LtCol Sidney Greene, subj: Study of Thor for Space Flight Testing, 22 Nov 57.

196. Memo (C), WDIR/Col Frederic C. E. Oder, for Col Terhune, subj: Combined WS 107A-1 - Ws 117L Activities - Basic Integration Plan for AFMTC Operations, 26 Nov 57, w/4 Incls: (1) Organization for WS 117L Operations at AFMTC; (2) WS 117L Data Handling Process-AFMTC Operations; (3) Establishment Procedure for Detailed Test Objectives; (4) WS 107A-1 Flight Test Working Group.
197. Ltr (C), MCPTRM/Col Sherman E. Ellis, to DAF CofS, Hq USAF, subj: Overtime Policy - 117L Program, 27 Nov 57.
198. Ltr, Hq USAF, AFDRD-SS/BrigGen H. A. Boushey, to Comdr ARDC, subj: Approval of Development Plan for WS 117L, 27 Nov 57.
199. Msg, Cite TWX 12-009, to Comdr AFEMD, 031944Z Dec 57.
200. Msg, Comdr ARDC to Comdr AFEMD, Cite RDZCP-12-4-E, 4 Dec 57.
201. Report (C), title: Report of the Scientific Advisory Board Ad Hoc Committee on Space Technology, 6 Dec 57.
202. Ltr, The Ramo-Wooldridge Corporation/L. G. Indwig to L. G. Dunn, subj: Contractor Organization for Project Able, 18 Dec 57.
203. ~~Ltr (C), WDIR/MajGen B. A. Schriever, to Mr. L. Eugene Root, WP and Gen Manager, Lockheed Aircraft Corp., no subj, 23 Dec 57.~~
204. Memo (C), Don, to Col MacDonald and Gen Funk, circa Jan 1958, w/1 Incl: Draft Ltr to The Ramo Wooldridge Corp, w/2 Incls: (1) MFR, DAF/Roger Lewis, 8 Sep 57; (2) Statement of Work, WS 117L Program Assistance, 1 Jul 57 - 30 Jun 58.
205. ARDC Form 111 (C), Management Report, subj: Advanced Reconnaissance System, WS 117L - Short Title: ARS, WS 117L, 6 Jan 58.
206. DF, MCPTA to MCPT, subj: Weekly Diary - 10 thru 16 Jan 58, 16 Jan 58.
207. Ltr (C), ARDC/LtGen S. E. Anderson, to MajGen B. A. Schriever, Comdr AFEMD, subj: Proposal for Future Air Force Ballistic Missile and Space Technology Development, 22 Jan 58.
208. Msg (C), Cite AFDDC-SP 55521, 222214Z Jan 58.
209. Memo (C), WDTL/Col Lawrence D. Ely, for Col Terhune, subj: WS-609A - Ballistic Research and Test System, BRATS, 31 Jan 58.
210. Msg (C), Cite AFMPP-WS-1 55965, 311822Z Jan 58.

- 210 #2. Memo (S), Douglas /AF Secretary James H. Douglas/ for the Secretary of Defense, subj: Reconnaissance Satellite, 1 Feb 58.
211. Msg (C), Cite AFPGM 56082, 3 Feb 58.
212. Memo, WDF/Col Charles H. Terhune, Jr., to Col Oder, subj: R-W Participation in WS 117L, 4 Feb 58.
213. DF (C), MCPTA to MCPT, subj: Weekly Diary - 31 Jan thru 6 Feb 58, 6 Feb 58.
214. DOD Directive No. 5105.15, subj: Department of Defense Advanced Research Projects Agency, 7 Feb 58.
215. DF (C), MCPTA to MCPT; subj: Weekly Diary - 7 thru 13 Feb 58, 13 Feb 58.
216. Msg, Cite TWX 02-022, to Comdr AFBMD, 141757Z Feb 58.
217. Memo, WDGE/Col J. L. Hamilton, for Col Terhune and Dr. Ramo, subj: ARDC Ad Hoc Committee on Geophysical Support Requirements, 14 Feb 58.
218. Ltr, MCPT/BrigGen Ben I Funk, for Gen Schriever, subj: Air Force policy Governing R-W, 14 Feb 58, w/2 Incls: (1) MCPT Memo for Gen Schriever, subj: R-W Role with Respect to WS 117L, 14 Feb 58; (2) Draft Ltr to Secy of AF, subj: The Ramo-Wooldridge Corp.
219. Memo (S), WDFR/Col Charles H. Terhune, Jr., to Gen Schriever, subj: Programming for WS 117L, 17 Feb 58.
220. Ltr (C), The Ramo-Wooldridge Corporation/R. F. Mettler, to Col C. H. Terhune, Jr., subj: Thor/117L Discussions at AFMTC, 19 Feb 58.
221. Memo (S), SAFRD/Richard E. Horner, for the Secretary of Defense, no subj, 21 Feb 58.
222. Memo (C), Under Secretary Malcolm A. MacIntyre, for the Director of Guided Missiles, OSD, no subj: 21 Feb 58.
223. Memo (C), SOD/Neil McElroy, for the Secy of the AF, subj: Air Force WS-117L Program (Reconnaissance System), 24 Feb 58.
224. Msg (C), from WDFI-2-18-E, to Comdr ARDC, 25 Feb 58.
225. Msg (C), AFCVC 56978 to Comdr ARDC, info Comdr AFBMD, 262034Z Feb 58, quoting AFPGM msg 56082 dated 3 Feb 58.
226. Memo (C), OSD/Roy W. Johnson, Dir, ARPA, for the Secretary of the Air Force, subj: Reconnaissance Satellites and Manned Space Exploration, 28 Feb 58.

227. MFR, WDGE, subj: Call from General McCroble, 28 Feb 58.
228. Memo (C), WDFR/Col Frederic C. E. Odar, to Col Terhune, subj: Differences between 117L Thor and Atlas Launched Programs, 3 Mar 58.
229. Msg (C), Cite AFCVC 57197, 032022Z Mar 58.
230. Memo, Hq USAF CofS/MajGen Jacob E. Smart, for Distribution, subj: Space Projects Involving ICBM/IRBM Components, 4 Mar 58.
231. Msg (C), Cite TWX 03-014, 051625Z Mar 58, quoting Memo for the Secy of AF, 28 Feb 58.
232. Teleconference (C), regarding requirements of Johnson memo of 28 Feb, subj: Reconnaissance Satellites and Manned Space Exploration, and AFCVC 57197, 3 Mar 58 msg.
233. Msg (C), Cite RDZGW-2-7-E, 8 Mar 58.
234. Msg (C), Cite AFCEM 57767, 10 Mar 58.
235. Memo (C), Under Secy AF M. C. MacIntyre, for Director Advanced Research Project Agency, subj: WS 117L, 19 Mar 58.
236. Ltr (C), DOD Armed Forces Policy Council, to Members of the Armed Forces Policy Council, subj: Publicity on ARPA Projects and New Missile and Satellite Developments, 19 Mar 58.
237. Memo (C), AF Under Secy Malcolm A. MacIntyre, for Director ARPA, subj: WS 117L, 19 Mar 58.
238. Msg (C), AFCVC 57197, 23 Mar 58, reference Msg AFCVC 56978 dtd 26 Feb 58.
239. Memo, The White House, Dwight Eisenhower, for the Secretary of Defense, 24 Mar 58.
240. Ltr, WDF/BrigGen O. J. Ritland, to CofS USAF, subj: Transmittal of WS 117L Development Plan, 25 Mar 58.
241. DOD News Release, subj: Secretary McElroy Announces New Space Programs, 27 Mar 58.
242. Memo, WDCM/LtCol Donald L. Perry, for Gen Schriever, subj: Message from SAFIS, 1 Apr 58.
243. Msg (C), Cite AFCEM 59270, 092119Z Apr 58.
244. 1st Ind, WDFSR, 15 Apr 58, to Ltr AFOOP-OC-R, Hq USAF, 2 Jan 58, subj: POC for ARS.

245. Memo, ARPA, for the Commanding General, Ballistic Missile Div, ARDC, subj: Presidential Approval of ARPA Projects, 17 Apr 58.
246. Ltr (C), WDIR/BrigGen O. J. Ritland, to Asst CofS for Guided Missiles, Hq USAF, subj: Reduced FY 59 Program for WS 117L, 21 Apr 58.
247. Msg (C), Cite AFCVC 50190, 292128Z Apr 58.
248. Msg, Cite RDGPP-5-1-E, 061959Z May 58.
249. Msg (C), WDF-5-2, to CofS Hq USAF, info Comdr ARDC, 14 May 58.
250. Msg (C), WDF-5-3, to CofS Hq USAF, info Comdr ARDC, 14 May 58.
251. Msg (C), Cite TWX 05-15-01, 151450Z May 58.
252. DOD Directive No. 3200.5, subj: Assignment of Advanced Research Projects to the Advanced Research Projects Agency, 19 May 58.
253. Memo, AFPCM, for Distribution, subj: FY 1959 Revised WS 117L Development Plan, 22 May 58.
254. Msg (C), Cite AFPCM 51207, 231401Z May 58.
255. Msg RDZGW 6-1-58, 041700Z Jun 58.
256. Msg (C), WDCO-6-2, 10 Jun 58.
257. Memo (C), USAF Under Secretary Malcolm A. MacIntyre, for the Director, ARPA, 12 Jun 58.
258. Ltr, ARDC/LtGen S. E. Anderson, to MajGen B. A. Schriever, 13 Jun 58.
259. Memo (C), ARPA/Roy W. Johnson, Director; for the Secretary of the Air Force, subj: Military Reconnaissance Satellite Progress Report, 18 Jun 58.
260. Memo (C), Office of The Under Secretary, DAF, for the Chief of Staff, no subj: 24 Jun 58.
261. ARPA Prder No. 9-58 (C), ARPA to CG, BMD, no subj, 30 Jun 58. (Amendments 1 to 6 are contained in these volumes; Amendments 7, 16 Feb 1959 to 16 dated 3 Dec 1959 are contained in 1st Volume of SAMOS Documents).
262. Draft Report, Comments on Space, 30 Jun 58.
263. Memo, WDFWI/LtCol Richard K. Jacobson, for Col Terhune, subj: Douglas-Lockheed Relationships in WS-117L, 3 Jul 58.

264. Minutes of Twentieth Meeting AFBMC (C), 8 Jul 58.
265. Ltr, Hq USAF/BrigGen H. A. Boushey, to Comdr AFBMD, subj: Progress Reports, WS-117L, 10 Jul 58.
266. Memo (C), ARPA/Roy W. Johnson, for the Commanding General, Ballistic Missile Division /AFBMD/; subj: Military Reconnaissance Satellite Report, 15 Jul 58.
267. ARPA Order No. 9-58 Amendment No. 1, 17 Jul 58.
268. Memo, WDEK/Col Lawrence D. Ely, for Gen Ritland, subj: Status of Reply to ARPA Order 9-58, 18 Jul 58.
269. Memo (C), ARPA/Roy W. Johnson, for the Secretary of the Air Force, subj: WS-117L Development Plan, 29 Jul 58.
270. ARPA Order No. 9-58 Amendment No. 2, 4 Aug 58.
271. ARPA Order No. 14-59, 15 Aug 58.
272. Msg (C), WDPSR 8-15-E, 18 Aug 58.
273. SO No. M-770 ARDC 22 Aug 58.
274. ARPA Order No. 9-58 Amendment No. 3, 25 Aug 58.
275. Msg (C), Cite AFGCM 56504, 2819372E Aug 58.
276. Ltr, ARDC/LtGen S. E. Anderson, to Gen Curtis E. Lemay, VCofS, Hq USAF, no subj, 26 Aug 58, w/2 Incls: (1) Chart reflecting new organization for AFBMD; (2) Chart showing new Military Space organization in detail.
277. Ltr, Hq USAF/MajGen Arno H. Luehman, Director of Information, to Comdr AFBMD thru Comdr ARDC, subj: Classification of Information on WS-117L, 29 Aug 58.
278. Memo (C), ARPA/Roy W. Johnson, for Comdr AFBMD, subj: Large Booster for Future Space Projects, 3 Sep 58.
279. Msg (C), RDZGW-9-6-E, 041800Z Sep 58.
280. Memo (C), ARPA/Roy W. Johnson, for Comdr AFBMD, subj: Redefinition of WS 117L, 10 Sep 58.
281. Memo, WDSPR/MajGen B. A. Schriever, to Generals Funk and Large, Dr. Ramo, All Personnel, AFBMD, subj: Announcement of AFBMD Internal Reorganization, 12 Sep 58.

282. Msg (C), Cite AFMOM 57155, 122033Z Sep 58.
283. Memo, WDEPR/BrigGen O. J. Ritland, for Generals Funk and Large, Dr. Ramo, All Personnel, AFMOM, subj: Organizational Announcement, Organization of the Deputy Commander Military Space Systems, AFMOM, 16 Sep 58.
284. Msg (C), Cite 3347, 2322072Z Sep 58.
285. Memo, ARPA/Roy W. Johnson, for the Comdr BMD, subj: ARPA Ad Hoc Group on Project Sentry and Follow-on Program, 25 Sep 58.
286. ARPA Order No. 9-58 Amendment No. 4, 25 Sep 58.
287. GOR No. 80 (C), title (C), General Operational Requirement for a Reconnaissance Satellite Weapon System, 26 Sep 58; GOR 80-1, same title, same date; GOR 80-2, same title, same date; GOR 80-3, same title, same date; GOR 80-3a (C), title: Amendment to a GOR, 9 Feb 59, later cancelled by GOR 209, 28 Jan 64 (see MIDAS docs); GOR 80-4, same title, same date as basic GOR:
288. ARPA Order No. 9-58 Amendment No. 5, 29 Sep 58.
289. Ltr (C), WDW/MajGen B. A. Schriever, to Mr. Roy Johnson, Director, ARPA, no subj, 9 Oct 58.
290. Ltr (C), WDW/MajGen B. A. Schriever, to Mr. Roy Johnson, Director, ARPA, no subj, 9 Oct 58, w/1 INCL: FY 59-60 Adv Mil Space Sys Cost Schedule.
291. MFR (C), WDW/Col Frederic C. E. Oder, subj: Review by ARPA Ad Hoc Committee of the 15 September 1958 WS 117L (SENTRY) Development Plan and Related Actions During the Period 30 September-3 October, 15 Oct 58.
292. Ltr, WDW/MajGen B. A. Schriever, to Comdr ARDC, subj: Re-definition of WS 117L, 16 Oct 58.
293. Ltr (C), ARPA/Roy W. Johnson, to General Schriever, no subj, 20 Oct 58.
294. Minutes of Twenty-Fourth Meeting AFMOM (C), 20 Oct 58.
295. Msg, RDZGW-10-3, 232010Z Oct 58.
296. Msg (C), AFABF 50054, 241623Z Oct 58.
297. Memo (C), AF Under Secretary Malcolm A. MacIntyre, for the Director of ARPA, subj: FY '59 117L Program, 17 Nov 58.
298. Memo, MajGen B. A. Schriever, for Colonels Terhune and Curtin, subj: Atlas Program Over-Commitment, 20 Nov 58.