

*Cy* [REDACTED]

4051

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*P. Ross* **C/J  
MANAGERS MEETING**

13 - 14 DECEMBER 1966

Declassified and Released by the N R C

In Accordance with E. O. 12958

on NOV 26 1997

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MISSION 1037 SUMMARY

- o MISSION 1037, AGENA 1632, PAYLOAD J-38
- o LAUNCH BOOSTER: THORAD (SECOND UTILIZATION ON PROGRAM [REDACTED])
- o LAUNCH DATE: 8 NOVEMBER 1966
- o PAYLOAD TYPE: J-1 PG (SECOND UTILIZATION OF PAN-GEO)
- o ORBIT PARAMETERS: INCLINATION -- 100°  
APOGEE -- 179 N.M.  
PERIGEE -- 94 N.M.
- o FIRST MISSION: FOUR DAYS, AIR RECOVERY, 5806 FRAMES
- o SECOND MISSION: EIGHT DAYS, AIR RECOVERY, 5945 FRAMES

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MISSION 1037 -- ASCENT PERFORMANCE

- o THORAD BOOSTER NOMINAL
- o SPECTAL VIBRATION INSTRUMENTATION:
  - EIGHT MONITORS ON PAYLOAD COMPONENTS (ALL OPERATED SUCCESSFULLY)
  - THREE MONITORS ON - 1 SRV (TWO OPERATED SUCCESSFULLY, ONE APPEARED TO PRODUCE INVALID DATA)
- o THERMAL INSTRUMENTATION:
  - FATRING TEMPERATURE AT T + 230 SEC = 220° F MAX.
  - AMP INSTRUMENT BARREL TEMPERATURE AT T + 230 SEC = 125° F MAX.

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MISSION 1037 -- FIRST MISSION PERFORMANCE

- o PANORAMIC CAMERAS OPERATED NORMALLY, PAN-GEN NORMAL
- o STELLAR-INDEX CAMERA - ONE FRAME DOUBLE-EXPOSED
- o GYRO, CLOCK, INSTRUMENTATION OPERATED NORMALLY
- o YAW PROGRAMMER (OSFG) NOT FLOWN
- o THERMAL CONTROL:     MASTER CAMERA 85° - 82° F (AVERAGES)  
                              SLAVE CAMERA 82° - 78° F (AVERAGES)
- o EARLY "A" TO "B" TRANSFER NOT UTILIZED
- o ORBIT ADJUST SYSTEM NOT UTILIZED

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MISSION 1037 -- FIRST RECOVERY PERFORMANCE

- o RECOVERY ON ORBIT 66, 12 NOVEMBER 1966
- o ALL DE-BOOST TIMES = NORMAL
- o ALL PARACHUTE TIMES = 10 SECONDS LATE BIAS
- o IMPACT DISPERSION = 5 1/4 N.M. LONG/4 N.M. WEST
- o AIRCRAFT PICKUP = NORMAL

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MISSION 1037, -1 SRV IMPACT DISPERSION ANALYSIS

- o AGMA RATE AND ALTITUDE :: NORMAL
- o SRV WEIGHT AND BALANCE :: CORRECT
- o RETRO-ROCKET PERFORMANCE :: NORMAL
- o SRV ACCELEROMETER INDICATES A POSSIBLE CAPSULE ALTITUDE AND RATE ERROR AT SPIN-UP.  
DATA INSUFFICIENT TO CONFIRM ERROR.

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MISSION 1037 -- SECOND MISSION PERFORMANCE

- PANORAMIC CAMERAS OPERATED NORMALLY, PAN-GEO NORMAL
- SPECTAR-INDEX CAMERA -- TWO FRAMES DOUBLE-EXPOSED
- IMU AND CLOCK OPERATED NORMALLY
- INSTRUMENTATION: ONE TEMPERATURE SENSOR AND THE SLAVE CAMERA CYCLE COUNTER WERE INTERMITTENT
- THERMAL CONTROL: MASTER CAMERA 79° - 73° F (AVERAGES)  
SLAVE CAMERA 76° - 70° F (AVERAGES)
- ORBIT ADJUST SYSTEM: O.A.S. ROCKET #1 FIRED ON PASS 86, OPERATION SUCCESSFUL

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MISSION 1037 -- SECOND RECOVERY PERFORMANCE

- o RECOVERY ON ORBIT 195, 20 NOVEMBER 1966
- o ALL DE-ROCKET TIMES AND EVENTS == NORMAL
- o PARACHUTE TIMES AND EVENTS == NORMAL
- o IMPACT DISPERSION == 11 N.M. SHORT/6 N.M. EAST
- o AIRCRAFT PICKUP NORMAL

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J-1 PROBLEMS

o SYSTEM TEST:

o LOST TIME ON PAYLOAD SYSTEMS AS FOLLOWS:

<u>PAYLOAD</u>	<u>DAYS LOST</u>	<u>REASONS</u>
J-34	13	FLIGHT PREPARATIONS PRIOR TO BEING CALLED OFF BY CUSTOMER (INCLUDING 4 DAYS FOR INTERLOCK DEFENSES MODIFICATIONS)
	$2\frac{1}{2}$	PREPARATIONS FOR STORAGE
	$15\frac{1}{2}$	
J-35	$3\frac{1}{2}$	REWORKED "B" DFD MOUNTING; RECEIVED AND INSTALLED INTERLOCK DEFENSES; PERFORMED 500 ~ DEFENSE REVERIFICATION TEST
J-42	2	REWORKED DEFENSE AND REPLACED #1 CYCLE COUNTER
	$2\frac{1}{2}$	MODIFICATIONS ON DEFENSES - REVERIFICATION RUN
	1	RE-RAN CYCLE RATE REVERIFICATION
	2	RE-RAN PREPARATIONS AND BLOCK TEST
	$1$	RE-RAN BASELINE TEST
	$8\frac{1}{2}$	

J-1 PROBLEMS (CONTINUED)

<u>PAYLOAD</u>	<u>DAYS LOST</u>	<u>REASONS</u>
J-43	1½	RE-RAN RAIL CHECKS (DEFECTS HAVE BEEN REWORKED AND RESOLUTION RUN WILL BE MADE)
J-44	-	DEFECT DUE FOR INSPECTION BEFORE RESO/THEO TEST

- J-39, J-41, J-42 T.C. PROGRAMMERS SENT TO G.E. FOR REWORK. EXPECTED DELIVERY: 1 PER WEEK. J-39 ECD - 10 DECEMBER 1966.
- G.E. ENGINEERING ON ELECTRIC BALLAST NOT RECEIVED AT A/P (RELEASED 30 NOV. 1966). HARDWARE PROMISED FOR INSTALLATION ON SCHEDULE (J-41 AND UP)
- DEF SHORTAGES:  
J-42 = S/N 107 AVAILABLE. STILL SHORT THE OTHER.  
J-43 AND J-44: NO DEF'S AVAILABLE.

○ MANUFACTURING:

NO PROBLEMS TO REPORT

○ ENGINEERING:

REQUIR. DOORS, J-40 AND UP

J-1 PROBLEMS (CONTINUED)

o THE FOLLOWING COMPARISON OF IOL/ICL EXPIRATION RATES VS. SCHEDULE NEED DATES ON FOREBODIES INDICATES ACTION REQUIRED:

<u>FOREBODY</u>	<u>MANUFACTURING DATE</u>	<u>EXPIRATION DATE</u>	<u>CURRENT SCHEDULE FLIGHT DATE</u>	<u>FOREBODY</u>	<u>MANUFACTURING DATE</u>	<u>EXPIRATION DATE</u>	<u>CURRENT SCHEDULE FLIGHT DATE</u>
J-34A	8-31-65	1-31-67	1-67	J-44A	6-21-66	11-21-67	2-68
B	8-4-65	1-4-67	1-67	B	6-23-66	11-23-67	2-68
J-35A	8-3-65	1-3-67	2-67	J-45A	8-5-66	1-5-68	11-67
B	9-17-65	2-17-67	2-67	B	7-15-66	12-15-67	11-67
J-37A	10-21-65	3-21-67	5-67	J-46A	1-4-67	6-4-68	4-68
B	11-5-65	4-5-67	5-67	B	1-4-67	6-4-68	4-68
J-39A	12-19-65	5-19-67	3-67	J-47A	2-21-67	7-21-68	7-68
B	12-19-65	5-19-67	3-67	B	2-21-67	7-31-68	7-68
J-40A	2-3-66	7-3-67	4-67	J-48A	4-20-67	9-20-68	9-68
B	1-19-66	6-19-67	4-67	B	4-20-67	9-20-68	9-68
J-41A	1-19-66	1-19-67	8-67	J-49A	6-5-67	11-5-68	11-68
B	2-3-66	2-3-67	8-67	B	6-5-67	11-5-68	11-68
J-42A	4-3-66	9-3-67	6-67	J-50A	8-14-67	1-14-69	12-68
B	3-11-66	8-11-67	6-67	B	8-14-67	1-14-69	12-68
J-43A	5-3-66	10-3-67	9-67				
B	5-30-66	10-30-67	9-67				

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J-3 SYSTEM STATUS

- o MOCKUP
  - o MOCKUP 90% COMPLETE. REMAINING EFFORT CONSISTS OF EMU, TUMA, FRESH DOOR, ROLLER BOX AND CHUTES, AND MINOR ELECTRICAL WORK.
- o CONIC
  - o CONIC WORK STOPPED DUE TO LACK OF DOOR FRAME PARTS (VENDOR) WHICH WERE REJECTED. ECD FROM VENDOR: 15 DECEMBER 1966.
- o OR-2
  - o CONIC STOPPED THREE DAYS DUE TO LATE DELIVERY DOOR FRAME PARTS (VENDOR).
  - o EMU AND TUMA SCHEDULE SLIP (PER [REDACTED] STILL 10 WEEKS AND 4 WEEKS, RESPECTIVELY.

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SYSTEM SPECIFICATIONS

<u>TITLE</u>	<u>NUMBER</u>	<u>ECD</u>	<u>REMARKS</u>
SYSTEM AFS AND QRS	T3-6-063	JANUARY 1967	
SYSTEM THERMAL SPEC	--	JANUARY 1967	SV TO PROVIDE
VAB LAUNCH SPEC	--	MARCH 1967	
MAILED REQUIREMENTS SPEC	--	JANUARY 1967	

ALL INFO RELEASED

AGE SPECIFICATIONS

o ALL RELEASED

DESIGN REVIEW SCHEDULE

o UNCHANGED SINCE LAST MANAGERS MEETING

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STATUS OF INTERFACE DRAWINGS

- o ONLY TWO INTERFACE DRAWINGS WERE NOT SIGNED OFF AT TIME OF LAST MANAGERS MEETING.
  
- o THE T33-112 INTERFACE -- EXTE, T.U. AND T.R. ROLLERS (MAIN) -- IS NOW SIGNED OFF (A/P AND BOSTON)
  
- o THE T33-100 INTERFACE -- PAYLOAD COMPLETE -- WILL BE READY FOR SIGN OFF IN JULY 1967

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J3 PROCUREMENT PROBLEMS

<u>ITEM</u>	<u>DATE REQUIRED</u>	<u>EST. DELIVERY</u>
LMU		
-- PRESSURE VESSEL	NOVEMBER 1966	FEBRUARY 1967
-- REGULATOR	NOVEMBER 1966	JANUARY 1967
-- COUNTERMETER	NOVEMBER 1966	DECEMBER 1966
-- CONNECTORS	NOVEMBER 1966	FEBRUARY 1967
REF. SOURCE CONTROL		
-- SWITCHES	NOVEMBER 1966	DECEMBER 1966
-- SERVO MOTOR	NOVEMBER 1966	DECEMBER 1966
AMP V/M BOX		
--- AD CONVERTER	SEPTEMBER 1966	DECEMBER 1966
--- COMPACTOR	SEPTEMBER 1966	DECEMBER 1966
--- RESISTOR	SEPTEMBER 1966	DECEMBER 1966
STOP PROGRAMMER (V/H) BOX		
-- SWITCHES	OCTOBER 1966	DECEMBER 1966
-- TOWER SUPPLY, TRANSFORMER, CONNECTORS	OCTOBER 1966	DECEMBER 1966
-- MISCELLANEOUS ELECTRICAL PARTS	OCTOBER 1966	DECEMBER 1966
-- SERVO MOTOR	OCTOBER 1966	JANUARY 1967
STOP CONDITIONER		
-- FAIRCHILD FLAPPACKS	OCTOBER 1966	DECEMBER 1966

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J3 PROCUREMENT PROBLEMS (CONTINUED)

<u>ITEM</u>	<u>DATE REQUIRED</u>	<u>EST. DELIVERY</u>
AMP TOWER BOX		
-- CURRENT SENSOR	SEPTEMBER 1966	JANUARY 1967
CUE CABLES, AMP T/M BOX		
-- CONNECTORS	OCTOBER 1966	DECEMBER 1966
QUALIFICATION TEST PANELS, CONSOLES		
-- PROGRESSIVE GROUNDING UNIT	SEPTEMBER 1966	DECEMBER 1966
TUHA		
-- MACHINED PARTS (FROM VENDOR)	NOVEMBER 1966	DECEMBER 1966

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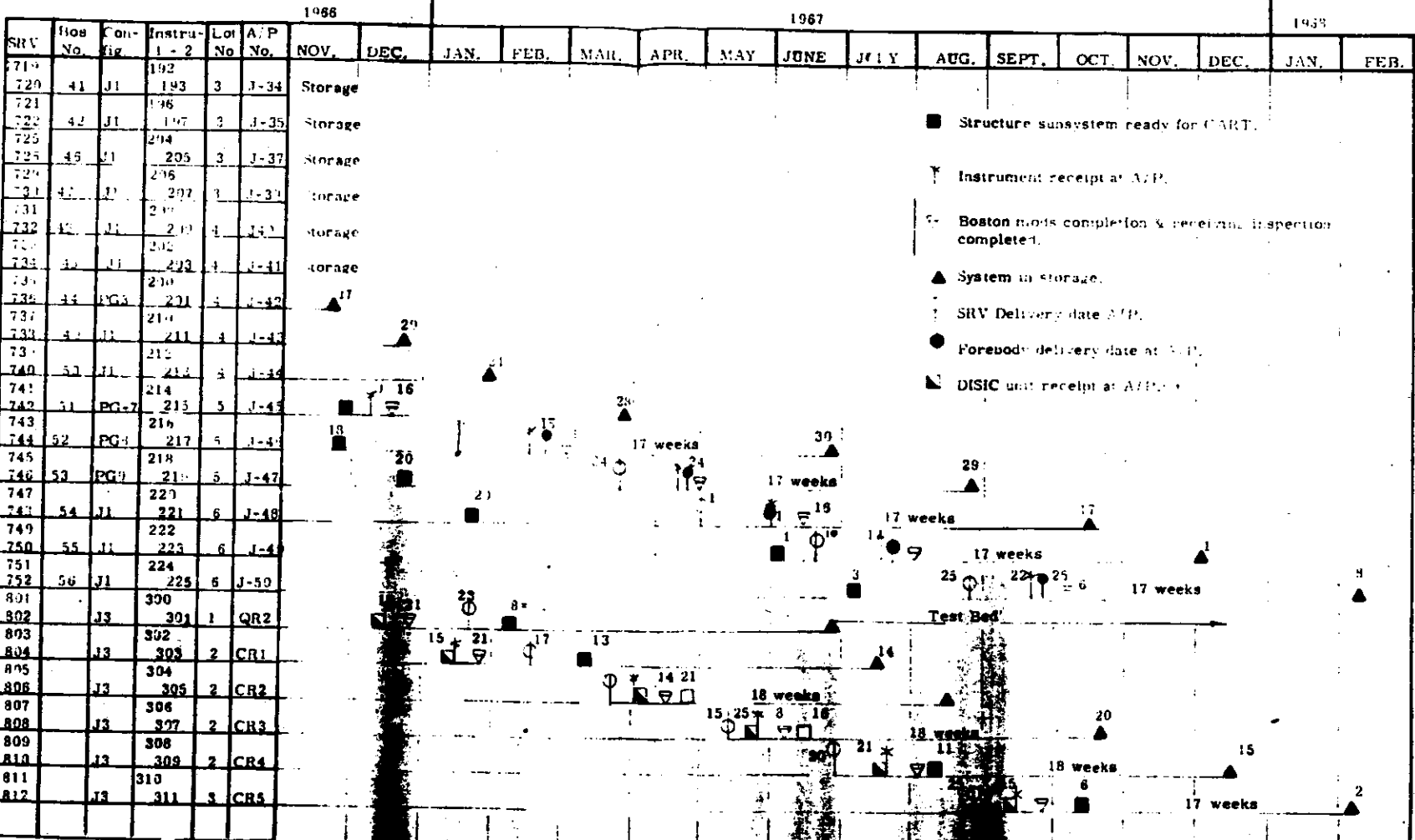
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A/P MANUFACTURING AND SYSTEM TEST SCHEDULE

J1/J3

Revised: 16 Nov. 1966

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Rev. Copy No. [REDACTED]

J1 AND J3 FLIGHT SCHEDULE

P/U	FY 67												FY 68												FY 69																		
	66						67						68						68																								
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O															
						J-38 PG 2	J-34	J-35	J-39	J-40	J-37	J-41	J-42	CR-1	J-41	J-43	J-44	J-45	CR-2	J-45	PG7	3	44	4	PG8	5	J-47	CR	J	CR	J-48	CR	J-47	CR	J	CR	J-48	CR	J-49	J-49	J-50	J-50	
						J-35	J-37	J-37	J-37	J-41	J-41	J-41	J-43	J-44	J-44	J-44	J-44	J-44	J-48	J-48	J-47	J-47	J-47	J-47	J-47	J-48	J-48	J-49	J-49	J-49	J-49	J-50	J-50	CR7	CR8	CR9	CR9	CR10	CR10	CR11	CR11		
						J-37	J-39	J-40	J-41	J-42	J-43	J-43	J-43	J-44	J-45	J-45	J-45	J-46	J-47	J-47	J-48	J-48	J-48	J-48	J-48	J-49	J-49	J-50	J-50	CR6	CR7	CR8	CR8	CR9	CR9	CR10	CR10	CR11	CR11				
						J-39	J-40	J-41	J-42	J-43	J-44	J-44	J-45	J-46	J-47	J-47	J-47	J-47	J-48	J-48	J-49	J-49	J-49	J-49	J-49	J-50	J-50	CR5	CR5	CR6	CR6	CR7	CR7	CR8	CR8	CR9	CR9	CR10	CR10	CR11	CR11		
						J-40	J-41	J-42	J-43	J-44	J-45	J-45	J-46	J-47	J-47	J-48	J-48	J-48	J-49	J-49	J-50	J-50	CR5	CR5	CR6	CR6	CR7	CR7	CR8	CR8	CR9	CR9	CR10	CR10	CR11	CR11	CR12	CR12	CR13	CR13			
						J-41	J-42	J-43	J-44	J-45	J-46	J-46	J-47	CR2	J-48	J-49	J-49	J-49	J-50	J-50	CR4	CR4	CR5	CR5	CR6	CR6	CR7	CR7	CR8	CR8	CR9	CR9	CR10	CR10	CR11	CR11	CR12	CR12	CR13	CR13			
						J-42	J-43	J-44	J-45				CR2	CR3	CR3	CR3	J-50	CR4	CR5	CR6	CR7	CR8	CR9	CR9																			
						J-43	J-44	J-45																																			
Vehicle						1632	1629	1635	1634	1636	1633	1637	1641	1638	1639	1642	1640	1643	1644	1645	1646	1647	1648	1649	1650	1651																	

P/U	FY 69												FY 70												
	69						70						70												
	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
	J	J	CR	CR	CR		CR		CR	QR															
	40	50	8	9	10		11		12	2															
	J-50	CR8	CR9	CR10	CR11	QR2	CR12		QR-2																
	CR8	CR9	CR10	CR11	CR12	CR12	QR2																		
	CR9	CR10	CR11	CR12	QR2	QR2																			
	CR10	CR11	CR12	QR2																					
	CR11	CR12	QR2																						
	CR12																								
Vehicle	1652	1653	1654	1655	1656	1657	1658	1659																	

- Notes:
1. DISIC to be on all J3 configurations.
  2. Vehicles 1630 thru 1634 will have the OAS capability. 1634 and up has the fly forward or fly rearward capability.
  3. J40, J41, J43 and J44 are standard J1 systems.
  4. 1652 thru 1659 is a letter of intent contract.

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 Master Schedules

**CRITICAL ITEMS**

ass #1  
Present  
condition

Forebody (A)  
Expiration Date (B)  
Res. Diode Module  
Ser. No  
Expiration Date  
Strip Heaters  
Ser. No  
Expiration Date  
Ser. No  
Expiration Date

1967												1968		REMARKS
J-34	J-35	J-39	J-40	J-41	J-42	CR-1	J-41	J-43	CR-2	J-45	D	CR-3	J-44	
255	256	269	277	266	288		276	292		300			295	
1-4-67	1-3-67	5-19-67	7-3-67	4-30-67	9-3-67		1-19-67	10-3-67		1-5-68			11-21-67	
258	260	270	275	267	285		278	293		298			296	
1-31-67	2-17-67	5-19-67	6-19-67	4-30-67	8-11-67		2-3-67	10-30-67		12-15-68			11-23-67	
A9	A4	82689		813A5										
12-30-66	1-30-67	2-30-67		1-3-67										
	B2			816-48										
	1-30-67			1-30-67										
		18	8		12	40		7						
		10-30-65	3-18-66	3-18-66	10-25-65	10-24-65		10-25-65						
		21	19	5	57910			9						
		10-30-65	3-18-66	10-25-65	6-26-65			9-21-65						

ass #2

Forebody (A)  
Expiration Date (B)  
Expiration Date  
Strip Heaters  
Ser. No  
Expiration Date  
Ser. No  
Expiration Date

J-34	J-35	J-39	J-40	J-41	J-42	CR-1	J-37	J-43	CR-2	J-45	CR-3	J-44
255	266	269	277	295	288		New	292		300		New
1-4-67	4-30-67	5-19-67	7-3-67	11-21-67	9-3-67			10-3-67		1-5-68		
258	267	270	275	296	285		New	293		298		New
1-31-67	4-30-67	5-19-67	6-19-67	11-23-67	8-11-67			10-30-67		12-15-68		
		18	8	7	40			12				
		10-30-65	3-18-66	10-25-65	10-24-65			10-25-65				
		21	19	9	57910			5				
		10-30-65	3-18-66	9-6-65	6-26-65			10-25-65				

1. Requires that the Calendar life be extended on the forebodies for the following systems; J-34, J-35, J-37, J-41, and J-44.
2. Requires that a visual inspection and a Special test to extend the Calendar life for the Strip Heaters on J-39, J-40, J-37, J-41 and J-42.
3. The Calendar Life for the Res. Diode Modules were extended by [redacted] Dated 2 Dec. 1966.
4. Cost to System Test for Item 2 Unknown at this time.

1. Requires that the Calendar life be extended on the J-34 Forebod
2. Requires that Four (4) new Forebodies be procured.
3. Requires that a visual inspection and a Special test be conducted to extend the Calendar Life for the Strip Heaters on the following Systems; J-39, J-40, J-37, J-41, and J-42.
4. Requires that System Test perform a Tracking Test on the following Systems; J-35, J-37; J-41, and J-44. It takes about Eight (8) to Ten (10) days per System.
5. Manufacturing will be required to fit the forebodies to the buckets on J-37 and J-44. It takes about ten (10) days per system.
6. The forebodies from J-37 were re-assigned to J-35; Forebodies from J-44 were re-assigned to J-41.

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J3 SOFTWARE SCHEDULE

		1966												1967		
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		
<u>SYSTEM SPECIFICATIONS</u>																
Design Control	T3-5-028	Released														
Acceptance Test	T3-5-063						30	29								
Qualification Test	T3-5-063						30									10
Agency Compatibility											△					10
System Thermal		( SV TO PROVIDE )														
VAFB Launch											△ <sup>10</sup>					
Mating Requirement																
<u>SUBSYSTEM SPECIFICATIONS</u>																
Power	T3-6-033				▲ <sup>15</sup>											
Telemetry	T3-6-029				▲ <sup>15</sup>											
Pyro	T3-6-041			30	Released											
Command	T3-6-042				▲ <sup>15</sup>											
Exposure Control	T3-6-054				▲ <sup>15</sup>											
Forward Motion Compensation	T3-6-030		20	Released												
Digital T/R Subsystem	T3-6-056				5	Released										
Digital T/R Multiplexer	T3-6-051				1	Released										
Silicon Light Pulsar	T3-6-055			30	Released											
Pressure Makeup System	T3-6-046						22									
<u>AGE SPECIFICATIONS</u>																
Payload Simulator (SV to provide)																
System Console	T3-6-048						15									
System Thermal Altitude Console							15									
Pyro Load Test Console							2									
Pyro Resistor & Continuity Console							2									
Blackhouse Console																
Digital T/R Data Processor	T3-6-049						15									
Fragible Sheath	T3-6-047	Released														
<u>ASSOCIATE INTERFACES</u>																
Work Statement A/R J3		Released														
Work Statement - Ops & Analysis & P/L Integ.		Released														
System Performance/Design Requirements	4/766			20	Released											
J3 Configuration Requirement Spec	80-31	19	Released													
Electrical Interface Spec - CR	T3-5-040				10	Released										
Electrical Interface Spec - SRV	T3-5-041				10	Released										
Electrical Interface Spec - DISTC	T3-5-042	Released														
Tracking, T/N, Command, Power & Pyro Interf.	T3-5-043				9	Released										
DISTC Subsystem - DCS	T3-5-044	Released														
System Environmental Sp	T3-6-045															

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[Redacted]

▲ Milestone Completed

CS-1 MILESTONE SCHEDULE

TEST PROGRAMS AND REVIEWS

STRUCTURAL TEST VEHICLE

BLACK BOXES

FLIGHT STRUCTURES

SOFTWARE

INSTRUMENTATION

ASSOCIATE SPECS & PROCEDURES

WEIGHT STATEMENT

SYSTEM SPECIFICATION

AGE

BREAK-OUT BOXES & TEST AIDS

M/S DOLLY & CRADLE MODS

SPECIAL TEST CABLES

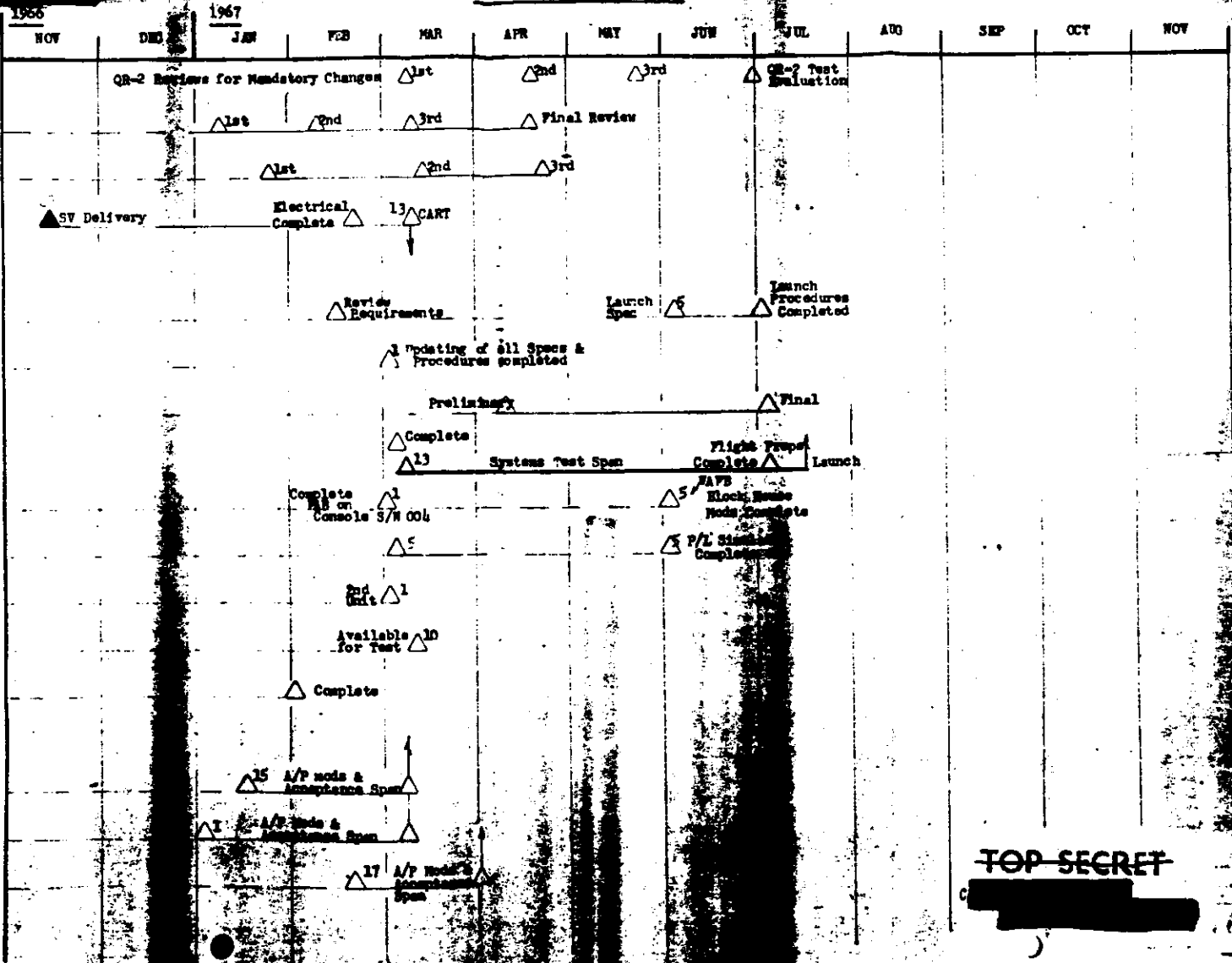
\*P BLOCK MODS

ASSOCIATE HARDWARE

CR INSTRUMENTS (302-303)

DEDIC INSTRUMENTS (83)

SKV's (803-804)



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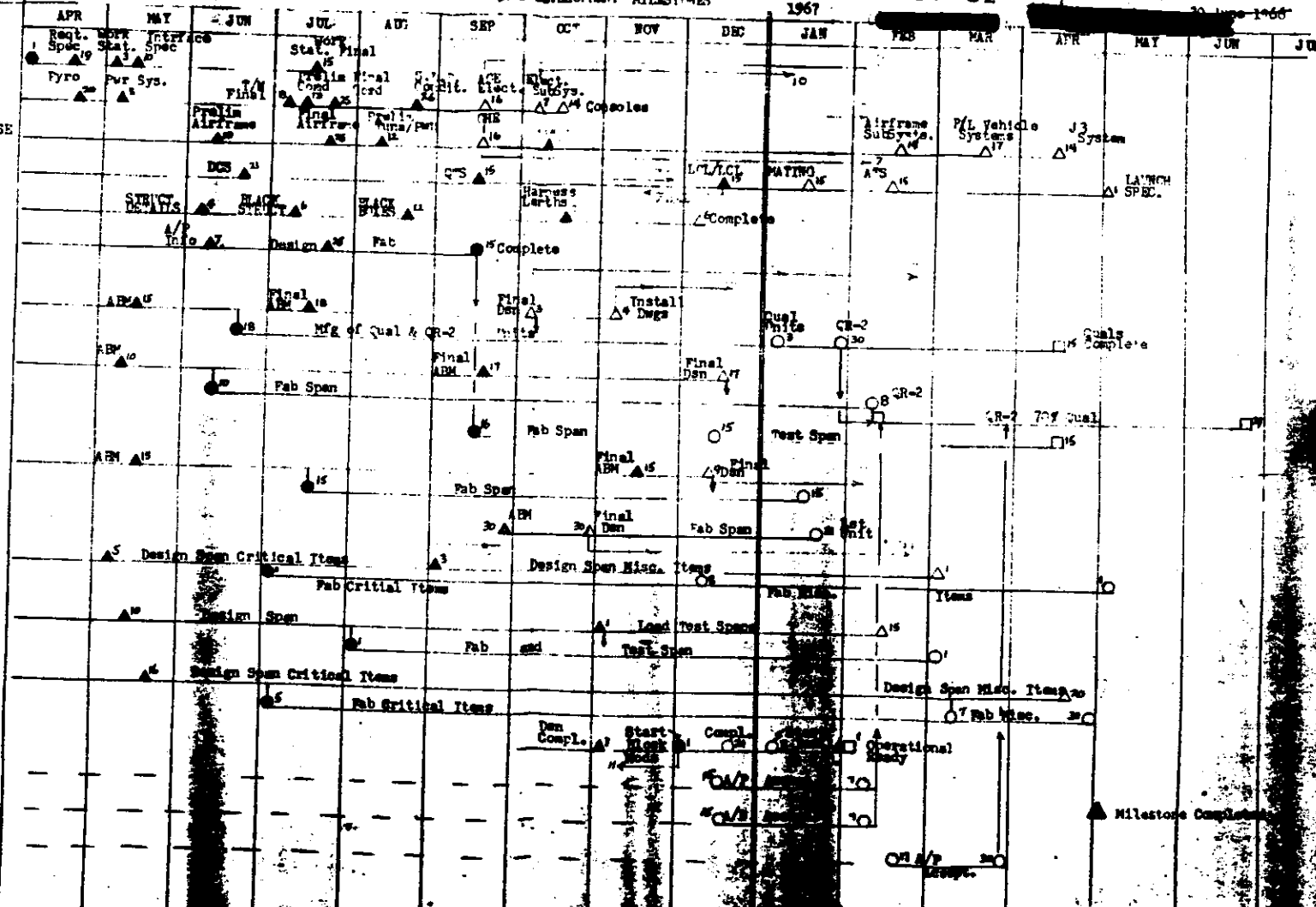
1966

QR-2 DEVELOPMENT MILESTONES

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30 June 1966

- TO AHEAD
- DESIGN REVIEWS - ELECTRICAL
- MECHANICAL/SE
- SYSTEM SOFTWARE
- MOCK-UP
- SV TOOLING & PEB - WHITE
- ENGINEERING -
- ELECTRICAL
- MECHANICAL - BLACK
- STRUCT. TEST VEHICLE
- AGE ELECTRICAL
- J CONSOLE MODS
- TOOLING
- ORD. HANDLING EQUIPT.
- TEST EQUIPMENT
- \*1\* BLACK MODIFICATION
- MAIN INSTRUMENTS
- DISK
- SEV'S



TOP SECRET





A/P MANUFACTURING AND SYSTEM TEST SCHEDULE

SRV	Item No.	Con-fig.	Instru-ments	Lot No.	A/P No.	1967					1968					1969			
						OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.
813			312			6	27	10	17										
814		J3	313	3	CR8					17 weeks	15								
815			314				17	8	22	29									
816		J3	315	3	CR7					17 weeks		26							
817			316																
818		J3	317	3	CR8		19	1	3	9									
819			318							17 weeks									
820		J3	319	3	CR9			16	8	22	29								
821			320																
822		J3	321	3	CR10						26								
823			322																
824		J3	323	3	CR11						26								
825			324																
826		J3	325	3	CR12														
801			300																
802		J3	301	3	CR2														

Program Schedules