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*Bye-61187-01*



Z. 5437  
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PAGES 48

EXECUTIVE SESSION  
MOL PROGRAM REVIEW  
OF 14 JUNE 1967

BYE-67189/67

B Q



Prepared:

17 June 1967

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Control System

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VI312-6

**MOL**  
**MANAGEMENT/TECHNICAL REVIEW**  
**14 JUNE 1967**

● EXECUTIVE SESSION

- FINANCIAL - PROGRAM GROWTH
- SUBCONTRACTS
- MANPOWER
- PROGRAM ACTIVITY
- ECP ACTIVITY
- PROBLEMS

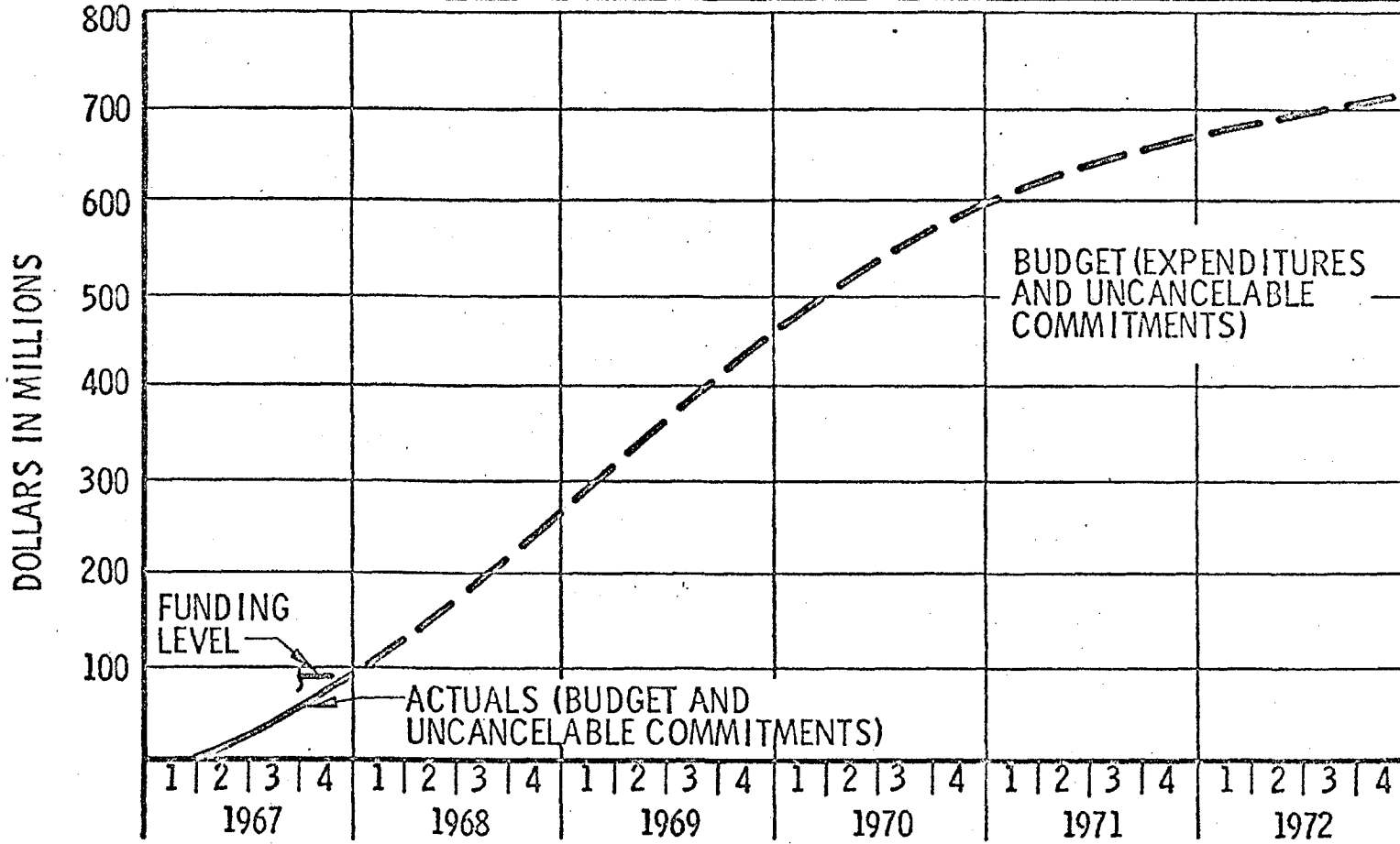
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MOL  
PROGRAM

**COST SUMMARY CHART LONG TERM**

AS OF  
28 MAY 67

CONT CODE	CONTRACT NUMBER	CONT TYPE	CUSTOMER AND TECH/PROC OFFICE	DESCRIPTION	FACE VALUE (000)	PROGRAM MANAGER	OPER AUTH	CONTRACT PERIOD	POTENTIAL FOLLOW-ON
		FP1	AIR FORCE AFSC/SSD	MANNED ORBITING LABORATORY	787,453	R. L. JOHNSON	BASC	SEP 66 TO JUN 72	

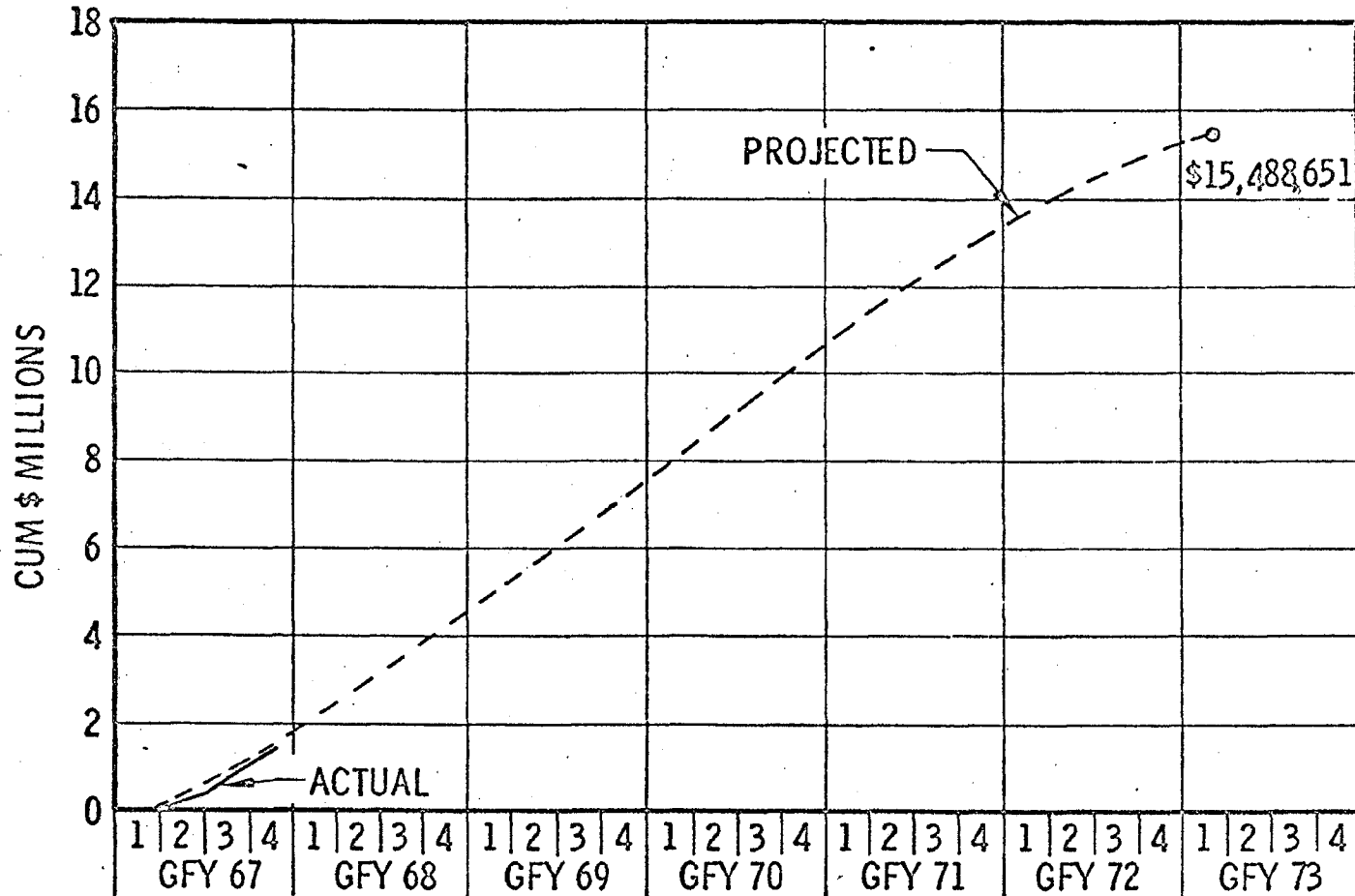


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MOL  
PROGRAM

TOTAL COST

AS OF  
28 MAY 1967



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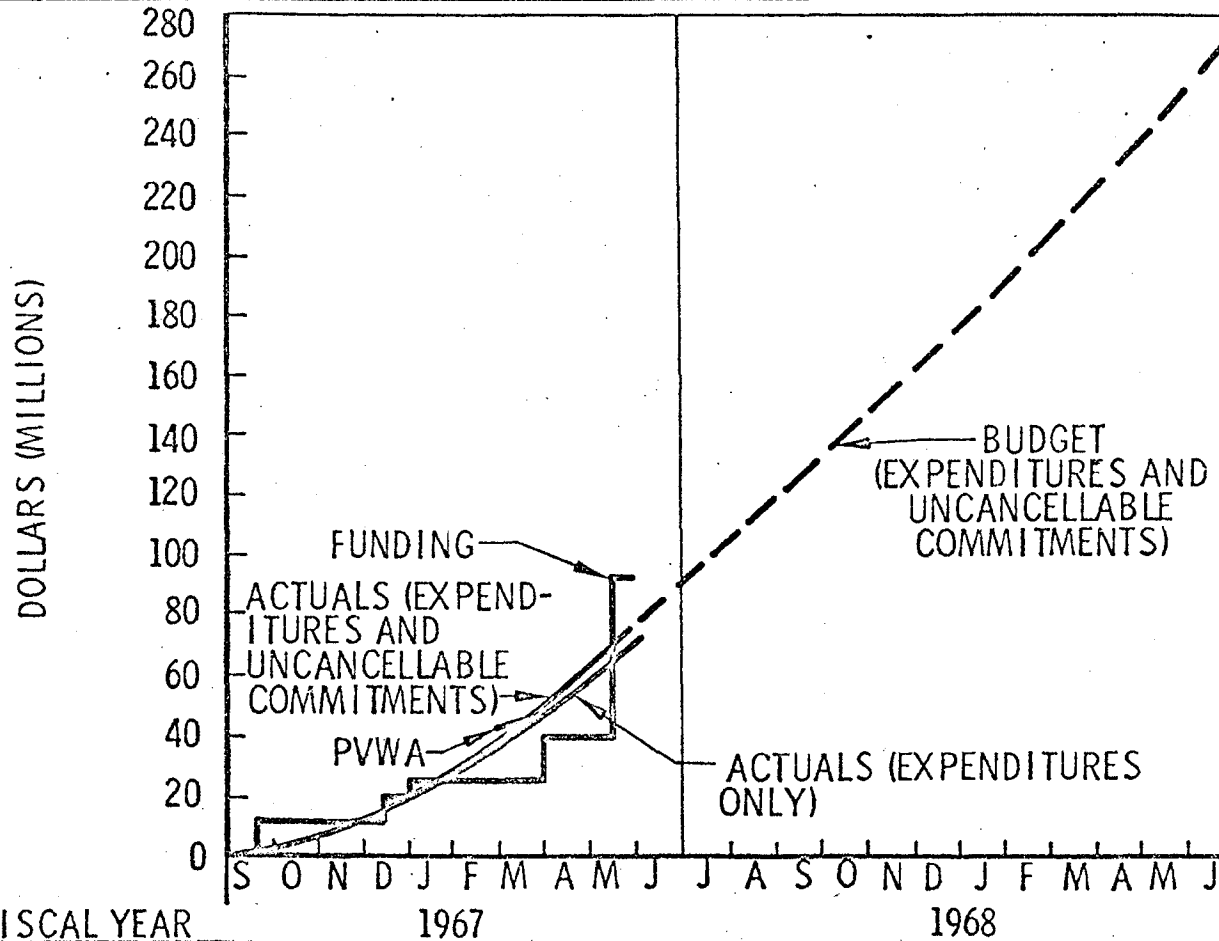
V1401-2

MOL  
PROGRAM

**COST SUMMARY CHART SHORT TERM**

AS OF  
28 MAY 67

CONT CODE	CONTRACT NUMBER	CONT TYPE	TECH/PROC OFFICE	DESCRIPTION	FACE VALUE (THOUSANDS)	PROGRAM MANAGER	OPN AUTH	CONTR PERIOD	POTENTIAL FOLLOW-ON
----	██████████	FPI	AIR FORCE AFSC/SSD	MANNED ORBITING LABORATORY	787,452	R.L. JOHNSON	BASIC	SEP 66 TO JUN 72	ON-----



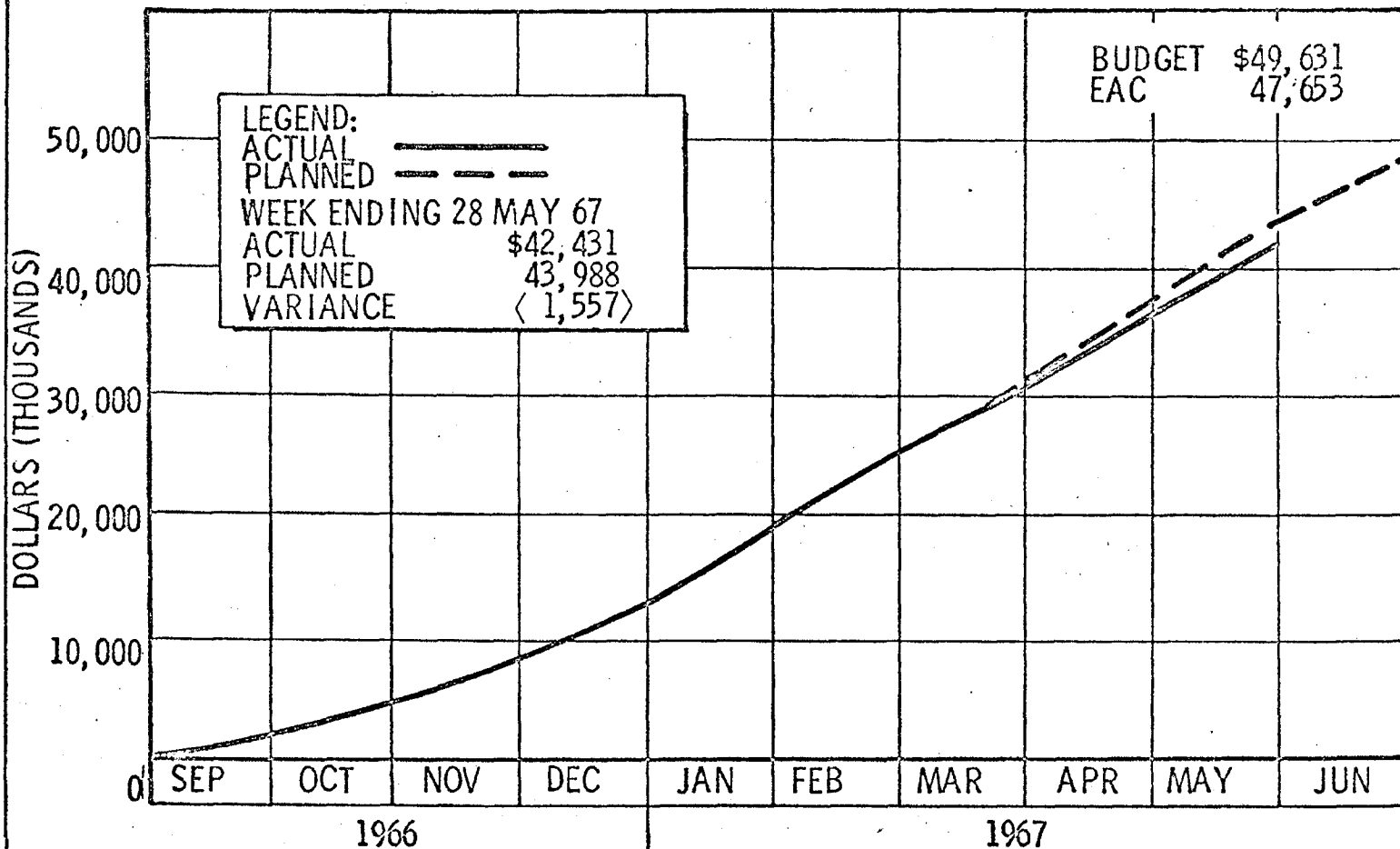
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V1236-6A

MOL  
PROGRAM

**DIRECT LABOR FY 67**  
(INCLUDING BURDEN AND G&A)

AS OF  
28 MAY 67



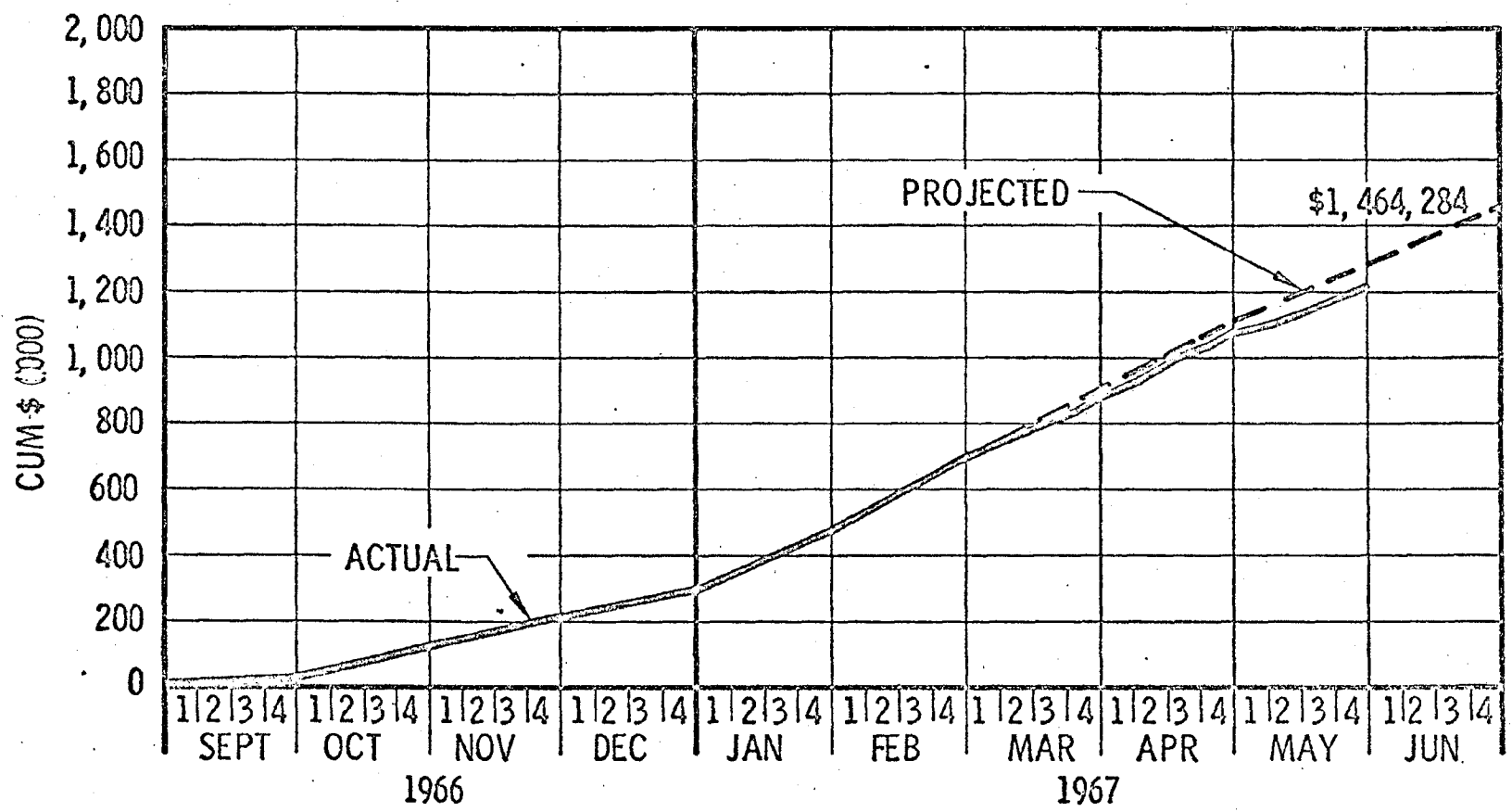
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MOL  
PROGRAM

**TOTAL LABOR COST**  
AF FISCAL YEAR 1967

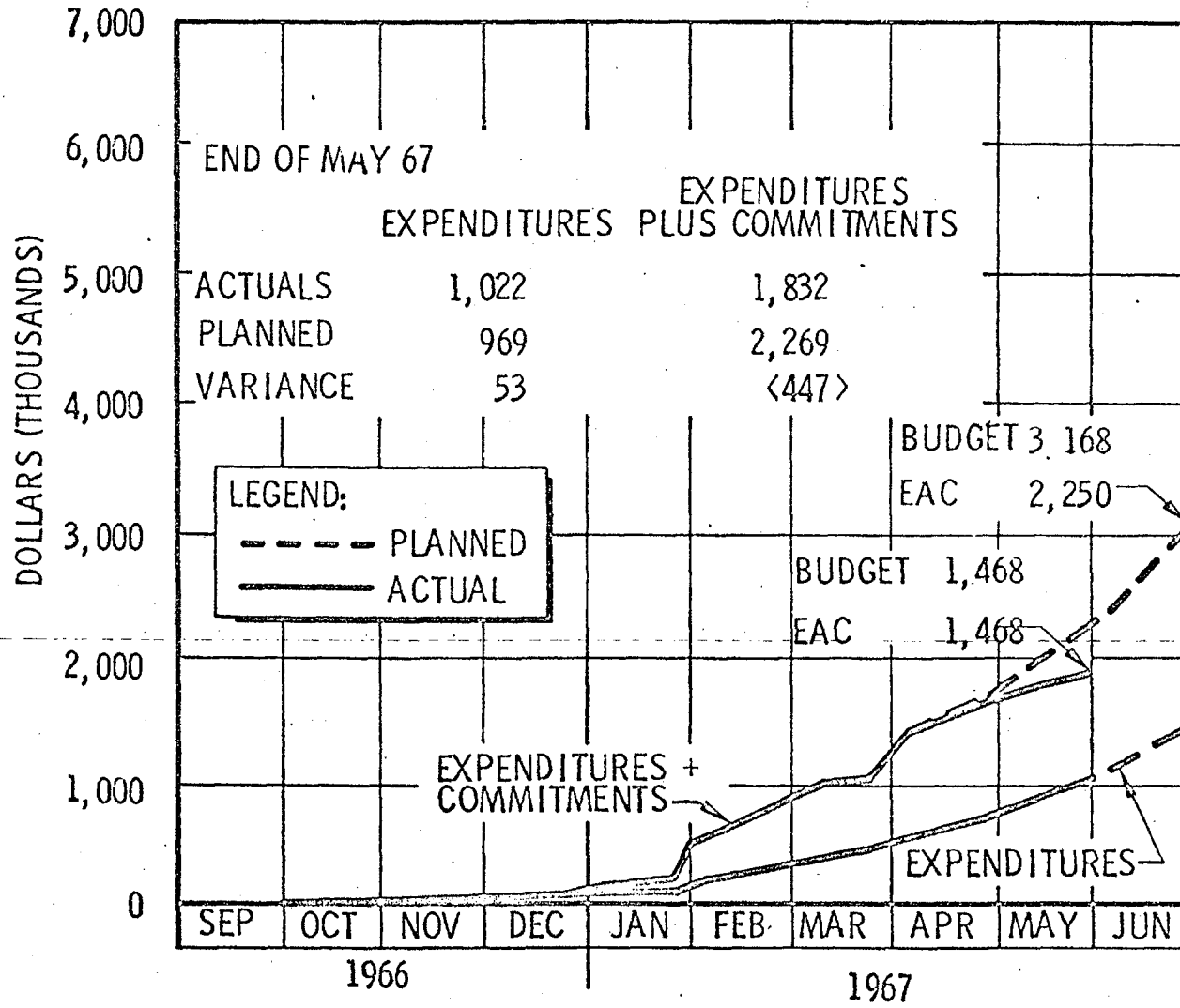
AS OF  
28 MAY 1967



MOL  
PROGRAM

**MATERIAL**  
EXCLUDES MAJOR AND COMPONENT SUBCONTRACTS

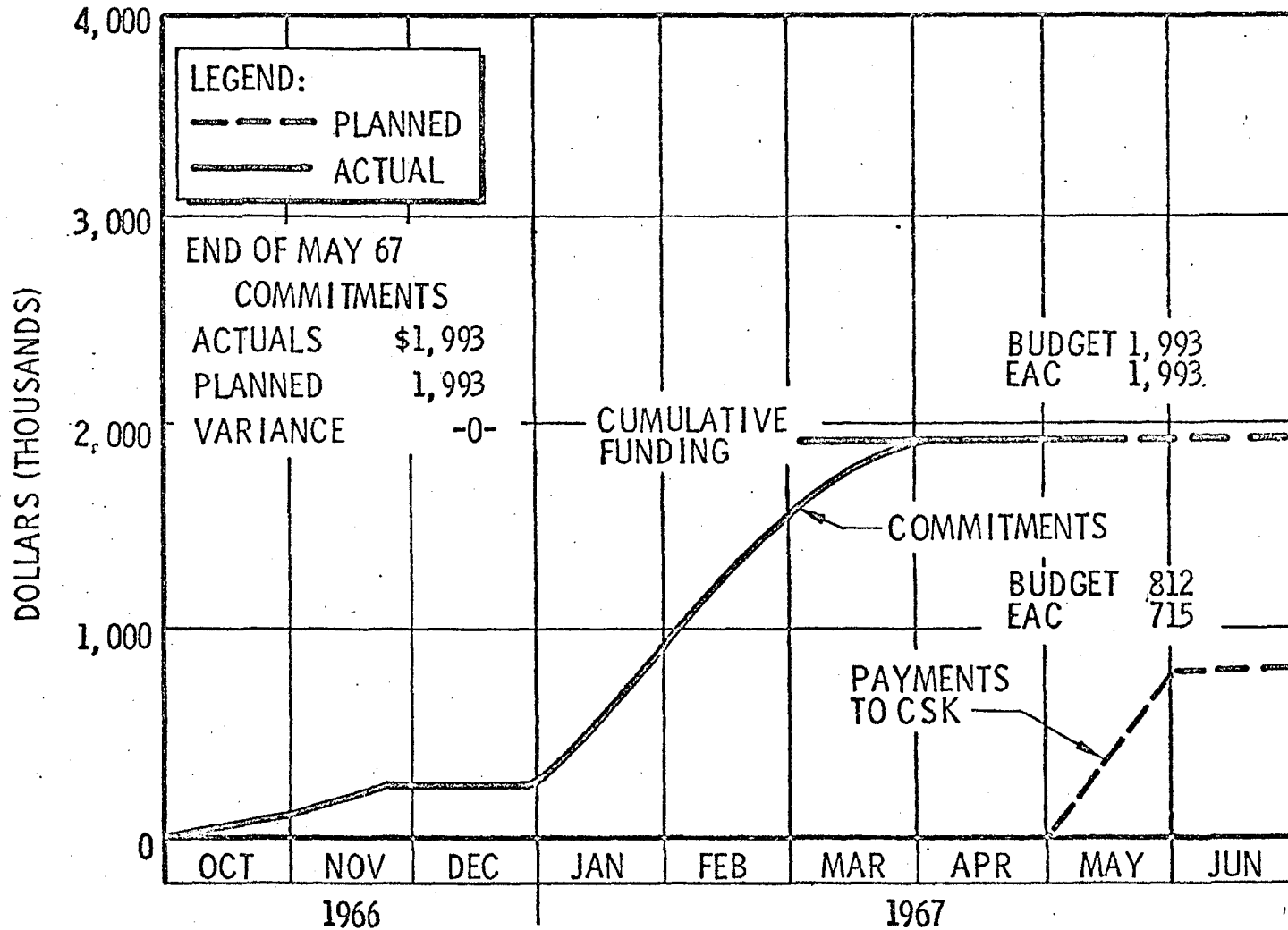
AS OF  
28 MAY 67



MOL  
PROGRAM

COMPONENT SUBCONTRACTS (CSK)

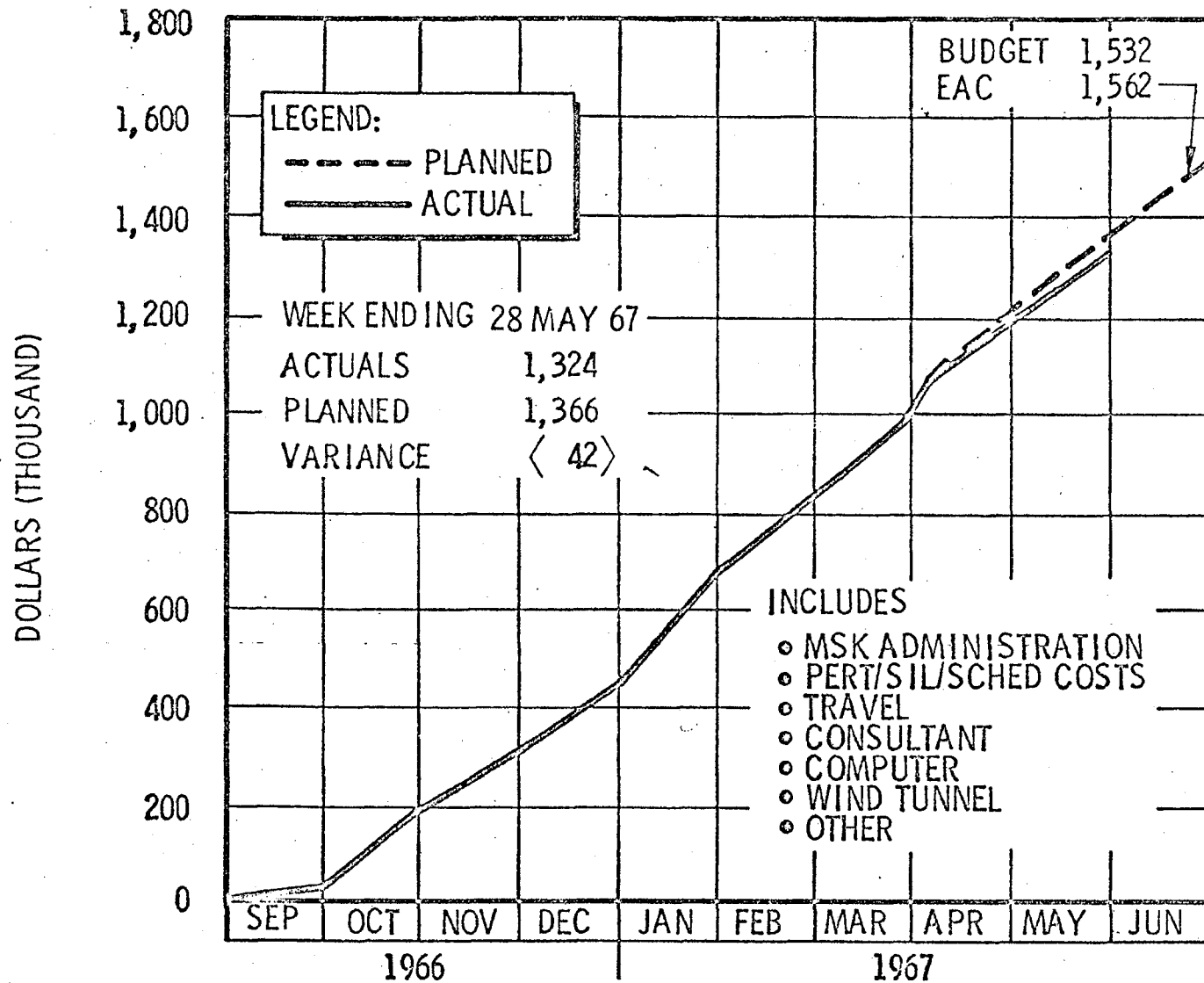
AS OF  
28 MAY 67



MOL  
PROGRAM

### OTHER DIRECT CHARGES

AS OF  
28 MAY 67

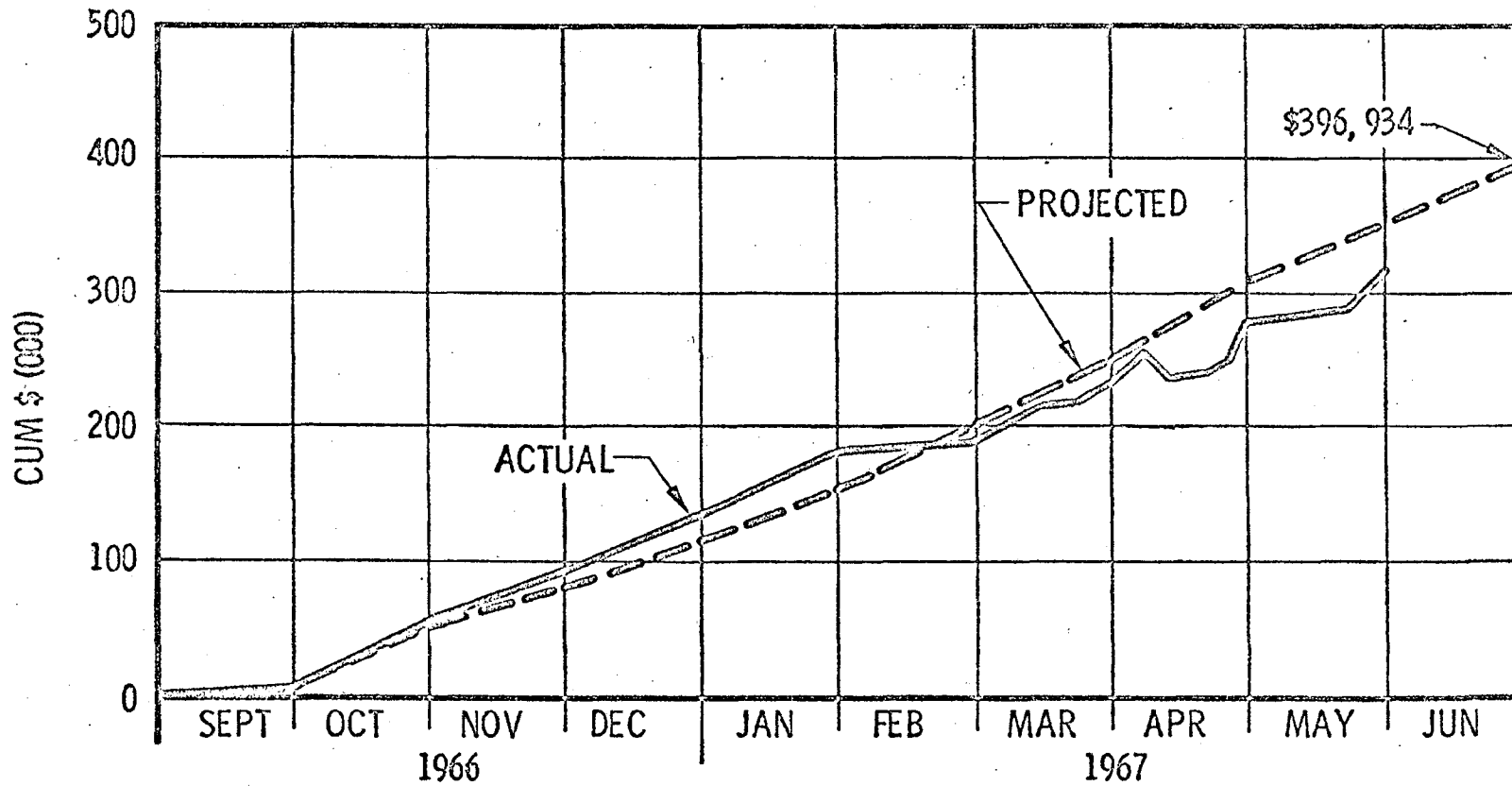


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MOL  
PROGRAM

**OTHER DIRECT CHARGES**  
AF FISCAL YEAR 1967

AS OF  
28 MAY 1967



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VI400-6

MOL  
PROGRAM

**TASK STATUS REPORT**

AS OF  
30 APR 67

CONT CODE -----	CONTRACT NUMBER ██████████	CONT TYPE FPI	CUSTOMER AND TECH/ PROC OFFICE AIR FORCE AFSC/ SSD	DESCRIPTION MANNED ORBITING LABORATORY	FACE VALUE (000) 787,452	PROGRAM MANAGER R.L. JOHNSON	OPER AUTH BASIC	CONTRACT PERIOD SEP 66 TO JUN 72	POTENTIAL FOLLOW-ON -----
-----------------------	----------------------------------	---------------------	---	--	-----------------------------------	------------------------------------	-----------------------	---	---------------------------------

KEY TASKS (\$ IN THOUSANDS)	TO DATE					AT COMPLETION			SCHED DEL DATE	SLACK WEEK + OR -
	BUDGET	COMMIT- MENTS	OVER (UNDER) BUDGET	EXPEND- ITURES	PVWA	TARGET COST	EST COST	OVER (UNDER) TARGET		
1. EC&LS	6.879	4.892	<1.987>	4.892	5.463	46.640	46.640	0		
2. ELEC PWR	3.858	4.689	.831	4.689	3.866	27.990	27.990	0		
3. ACTS	8.877	7.577	<1.300>	7.577	8.983	60.647	60.647	0		
4. STRUCTURES MM	1.296	.928	<.368>	.928	.739	5.872	5.872	0		
5. STRUCTURES LM	3.257	1.645	<1.612>	1.645	1.402	21.471	21.471	0		
6. DATA MGMT	7.650	7.389	<.261>	7.389	7.688	40.186	40.186	0		
7. COMMUNICATIONS	5.938	3.434	<2.504>	3.434	5.725	32.138	32.138	0		
8. INSTR & DISPLAY	4.360	.887	<3.473>	.887	1.043	17.746	17.746	0		
9. CREW STA & ACCOM	.629	.395	<.234>	.395	.441	6.894	6.894	0		
10. MISSION SIM	3.639	3.325	<.314>	3.325	3.743	17.658	17.658	0		
11. AGE	10.182	8.038	<2.144>	8.038	7.708	101.689	101.689	0		

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VI400-5A

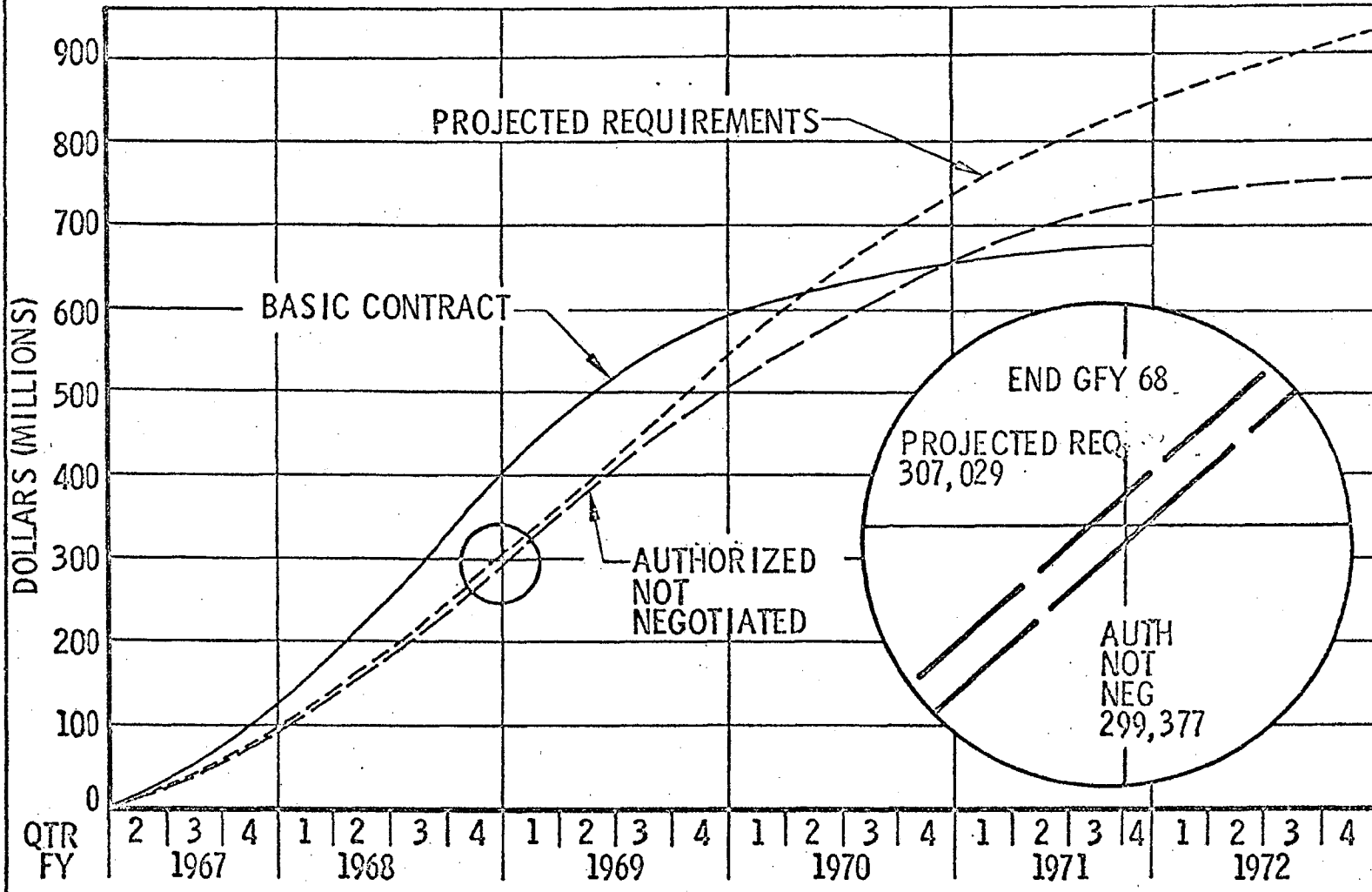
MOL PROGRAM	FINANCIAL SUMMARY BY TASK				AS OF 30 APR 67
WORK BREAKDOWN STRUCTURE (TASK)	BUDGET TO DATE	ACTUAL (000)	PWVA (000)	VARIANCE (000)	
SYSTEM ENGINEERING	5,513.8	6,278.0	5,638.0	638.0	
AVE	49,415.8	39,004.0	41,334.0	<2,355.0>	
AGE	10,181.7	8,038.4	7,707.9	330.5	
TRAINING	3,927.0	3,554.0	4,325.0	<770.0>	
SYSTEM TEST	1,984.7	1,271.0	1,091.0	179.0	
LAUNCH FLIGHT OPERATIONS	1,237.8	1,142.0	1,286.0	<144.0>	
DOCUMENTATION	557.9	805.0	817.0	<10.0>	
PROGRAM MANAGEMENT	5,140.3	7,165.0	5,177.0	1,987.0	
TOTAL	77,959.0	67,257.4	67,375.9	<144.5>	

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MOL  
PROGRAM

# PROGRAM GROWTH

AS OF  
28 MAY 67





MOL PROGRAM		AUTHORIZED NOT NEGOTIATED				AS OF 13 JUNE 67
CCN	ECP OR CCP	ITEM	COST (\$ MILLIONS)			TOTAL ALL YEARS
			FY 67	FY 68	FY 69	
		SUPPLEMENTAL AGREEMENT NO. 1	(25.946)	(90.871)	12.638	82.000
A	0042/ 0052	FAIRING ACCOMMODATIONS	.158	3.098	2,748	9.416
B	0043/ 0053	ESE NO. 1	.482	3.926	3.905	10.110
C	0044/ 0054	ESE NO. 2	.279	.979	3.040	9.889
E	0066/ 0098	CHANGE IN AVE SOFTWARE RESPONSIBILITIES	0	(.133)	(.133)	(.664)
F	0049	ESE NO. 3	0	.527	.226	.753
G	0047	MMPS CHANGES	.059	.630	.070	.759
H	0104	ACCOMMODATIONS FOR ESE NO. 3 (AH B)	0	.339	.146	.485
TOTAL AUTHORIZED NOT NEGOTIATED			(24.968)	(81.505)	22,640	112.748

MOL PROGRAM		PROJECTED			AS OF 13 JUN 67
ECP	RFQ	ITEM	COST (\$ MILLION) THROUGH 68	TOTAL ALL YEARS	DATE ATP REQUIRED
-	0005	TEST AND OPERATIONS	3.145	83.023	1 JAN 68
-	0022	ADDITIONAL ASTEG AND CABLES	-	.556	1 AUG 67
-	0041	TEST AND OPERATIONS - 6-MONTH HOLD	3.145	3.145	1 JUL 67
0065	0044	PDR CHANGES TO CEI'S 207210A, 207211A, 207212A	.302	.302	30 JUN 67
0070	0053	PDR CHANGES TO CEI'S 207187A-D	(.188)	(.188)	30 JUN 67
-	-	INTERFACE HARDWARE	-	.293	1 SEP 67
-	-	ADDITIONAL AGE	-	12.423	1 JAN 68
-	-	ADDITIONAL TESTING	-	5.078	1 AUG 67 TO 1 SEP 70
-	-	DEFERRED ITEMS	.893	1.539	1 SEP 67

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V1400-1A

MOL PROGRAM		PROJECTED (CONT)			AS OF 13 JUN 67
ECP	RFQ	ITEM	COST (\$MILLION) THROUGH 68	TOTAL ALL YEARS	DATE ATP REQUIRED
-	-	EMC TESTING	-	465	1 JAN 69
-	-	FAIRING	.250	16.186	TBD 1 MAY '68
-	-	ADDITIONAL FAIRING TASKS	-	5.845	TBD APPROX AUG '68
-	-	TOWER MODIFICATION	-	1.335	1 AUG 67
-	-	MISCELLANEOUS ITEMS	.136	.992	VARIOUS
-	0094	REWRITE OV AND LV SPECIFICATIONS	.268	.268	TBD
0084	0067	ADDITIONS TO CEI 207242A	.328	.328	TBD
-	-	REFURBISH LMQTV		13.804	TBD

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V1145-6B

## MAJOR SUBCONTRACTORS

ATMOSPHERE REACTANT SUPPLY SUBSYSTEM \_\_\_\_\_ AIRESEARCH

ATTITUDE CONTROL AND TRANSLATION SUBSYSTEM \_\_\_\_\_ HONEYWELL

COMMUNICATIONS \_\_\_\_\_ COLLINS RADIO

DATA COMPUTATION \_\_\_\_\_ IBM

ENVIRONMENTAL CONTROL SUBSYSTEM \_\_\_\_\_ HAMILTON-STANDARD

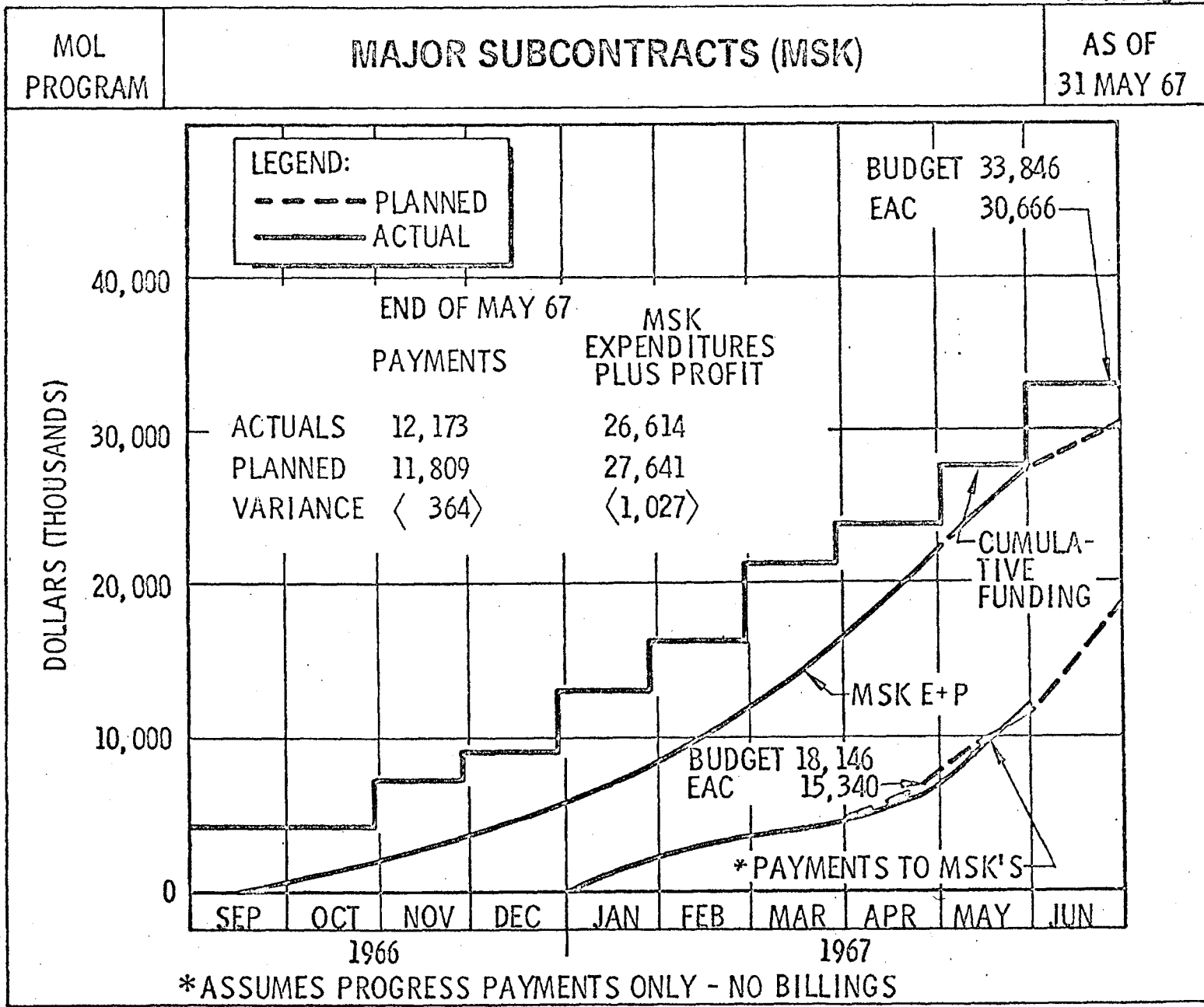
POWER \_\_\_\_\_ PRATT & WHITNEY

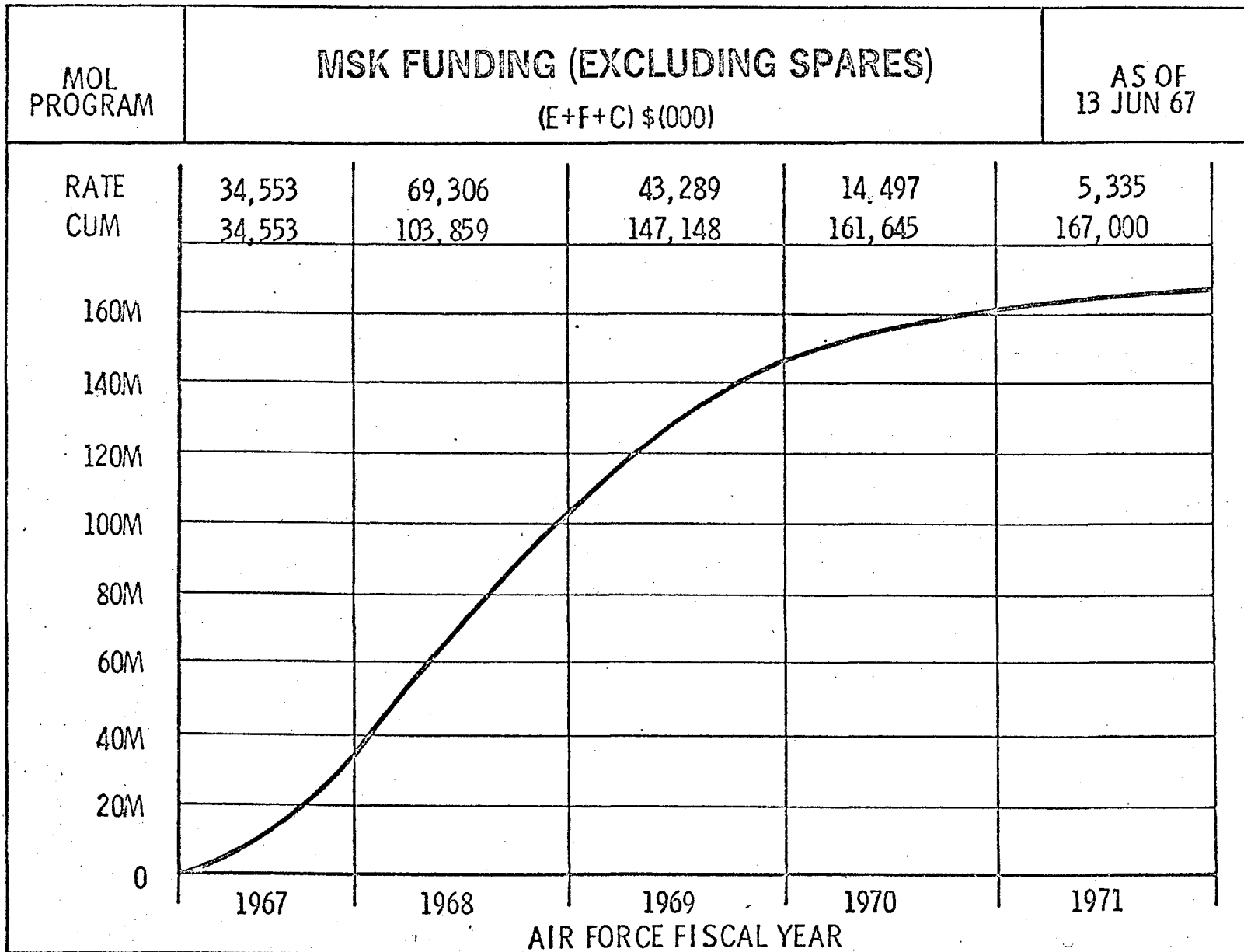
PROPULSION TANK ASSEMBLY \_\_\_\_\_ ROCKETDYNE

THRUSTORS \_\_\_\_\_ MARQUARDT

WASTE MANAGEMENT \_\_\_\_\_ FAIRCHILD-HILLER

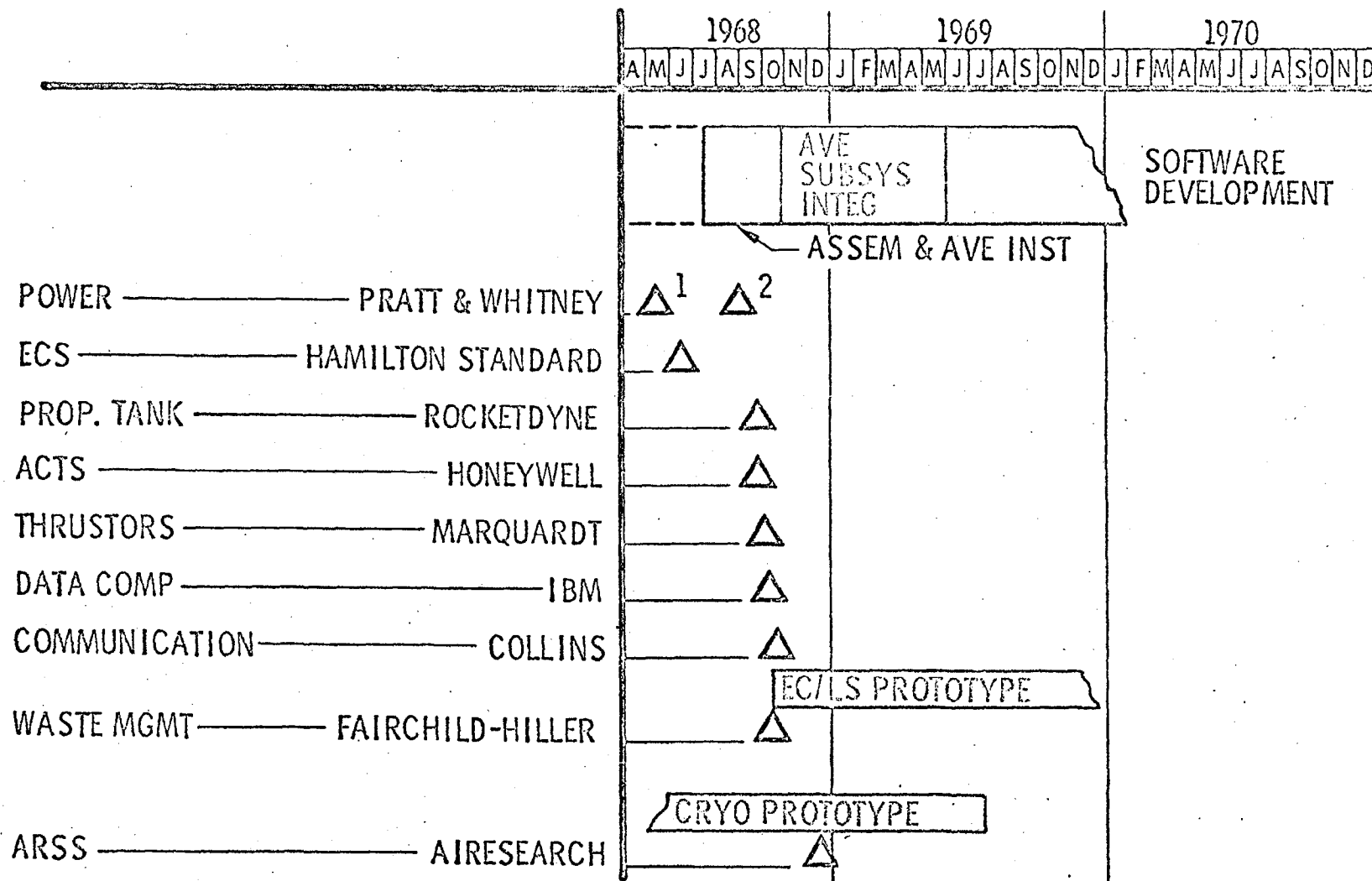
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# ELECTRONIC DEVELOPMENT COMPATABILITY TEST UNIT

VI263-4A



VI263-3A

LABORATORY MODULE QUALIFICATION TEST VEHICLE

	1968					1969					1970										
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
											LM ASSY		LM C/O	TV C/O			QUAL				
ACTS ————— HONEYWELL																					
PROP. TANK ————— ROCKEYDYNE																					
THRUSTORS ————— MARQUARDT																					
COMMUNICATIONS ————— COLLINS																					
WASTE MGMT ————— FAIRCHILD-HILLER																					
ECS ————— HAMILTON STANDARD																					
DATA COMP ————— IBM																					
POWER ————— PRATT & WHITNEY																					
ARSS ————— AIRESEARCH																					



MOL PROGRAM	FLIGHT VEHICLE NO. 3																								AS OF 12 JUN 67										
	1968								1969								1970								LM ASSY	LM C/O									
	A	M	J	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	N	D		
PROP. TANK _____ ROCKETDYNE																																			
ACTS _____ HONEYWELL																																			
THRUSTORS _____ MARQUARDT																																			
COMMUNICATIONS _____ COLLINS																																			
ECS _____ HAMILTON STANDARD																																			
WASTE MGMT _____ FAIRCHILD-HILLER																																			
DATA COMP _____ IBM																																			
POWER _____ PRATT & WHITNEY																																			
ARSS _____ AIRESEARCH																																			

<b>MOL PROGRAM</b>	<b>SUBCONTRACT SUMMARY REPORT</b>	<b>AS OF 14 JUN 67</b>
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<b>PLANT:</b> PRATT & WHITNEY AIRCRAFT EAST HARTFORD, CONN.		<b>REPORT DATE:</b> 14 JUNE 1967
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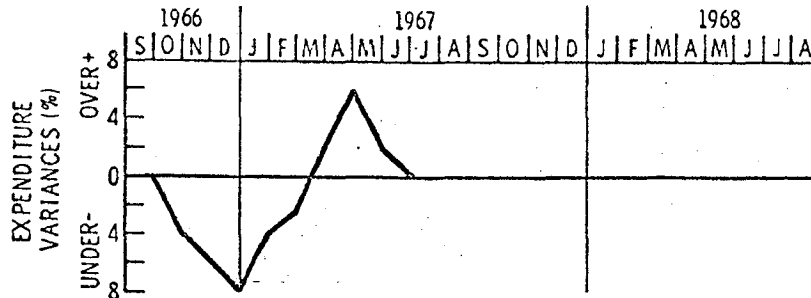
<b>SUBCONTRACT NUMBER:</b> DAC-66-6073	<b>CONTRACT TYPE:</b> FPI	<b>DESCRIPTION:</b> PRIMARY POWER SUBSYSTEM	<b>FACE VALUE:</b> TARGET PRICE \$25,729,491	<b>CONTRACT PERIOD:</b> FROM: SEPT 1966 TO: MAY 1970
---	------------------------------	--	--	--

TARGET PRICE \$25,729,491  
 FUNDING THROUGH JUNE 1967  
 EXPENDITURES \$4,972,000  
 COMMITMENTS \$1,825,000  
 TOTAL FUNDING \$6,797,000

OVERALL EVALUATION				
COST	SCH	TECH	CUST SATIS	PROFIT
0	0	0	0	0

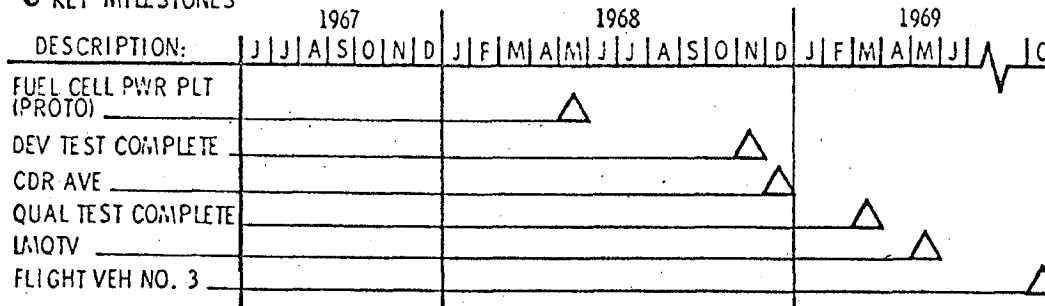
PVWA - TO BE IMPLEMENTED WITH NEW SCHEDULE

● PROJECTED VERSUS ACTUALS



KEY TASKS	EVALUATION		
	COST	SCH	TECH
SHOCK MOUNTS	0	0	0
CELL DEVELOPMENT	0	0	0
VOLTAGE LIMITER	0	0	0
SENSOR	0	0	0
H <sub>2</sub> PUMP SEPARATOR	0	0	0

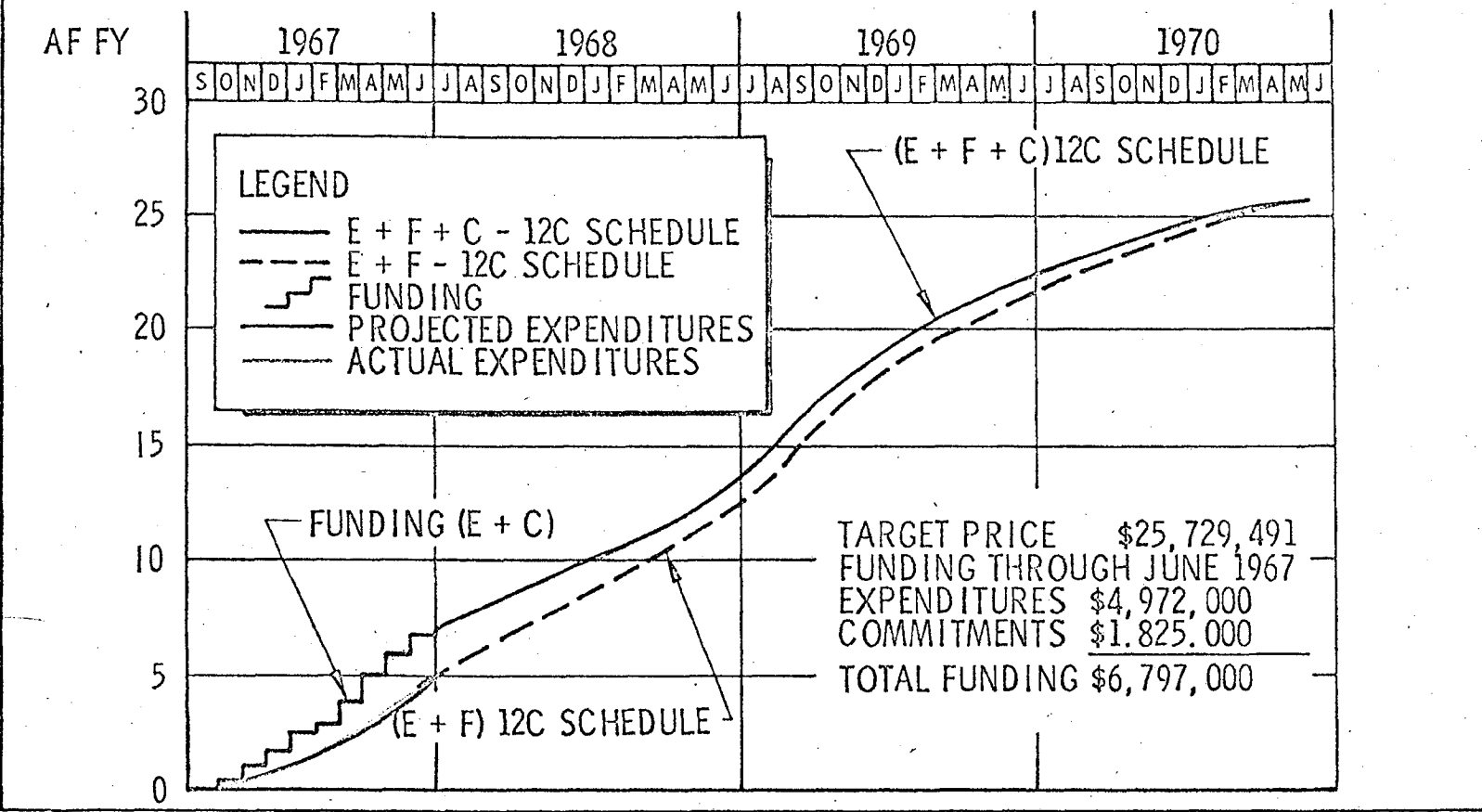
● KEY MILESTONES

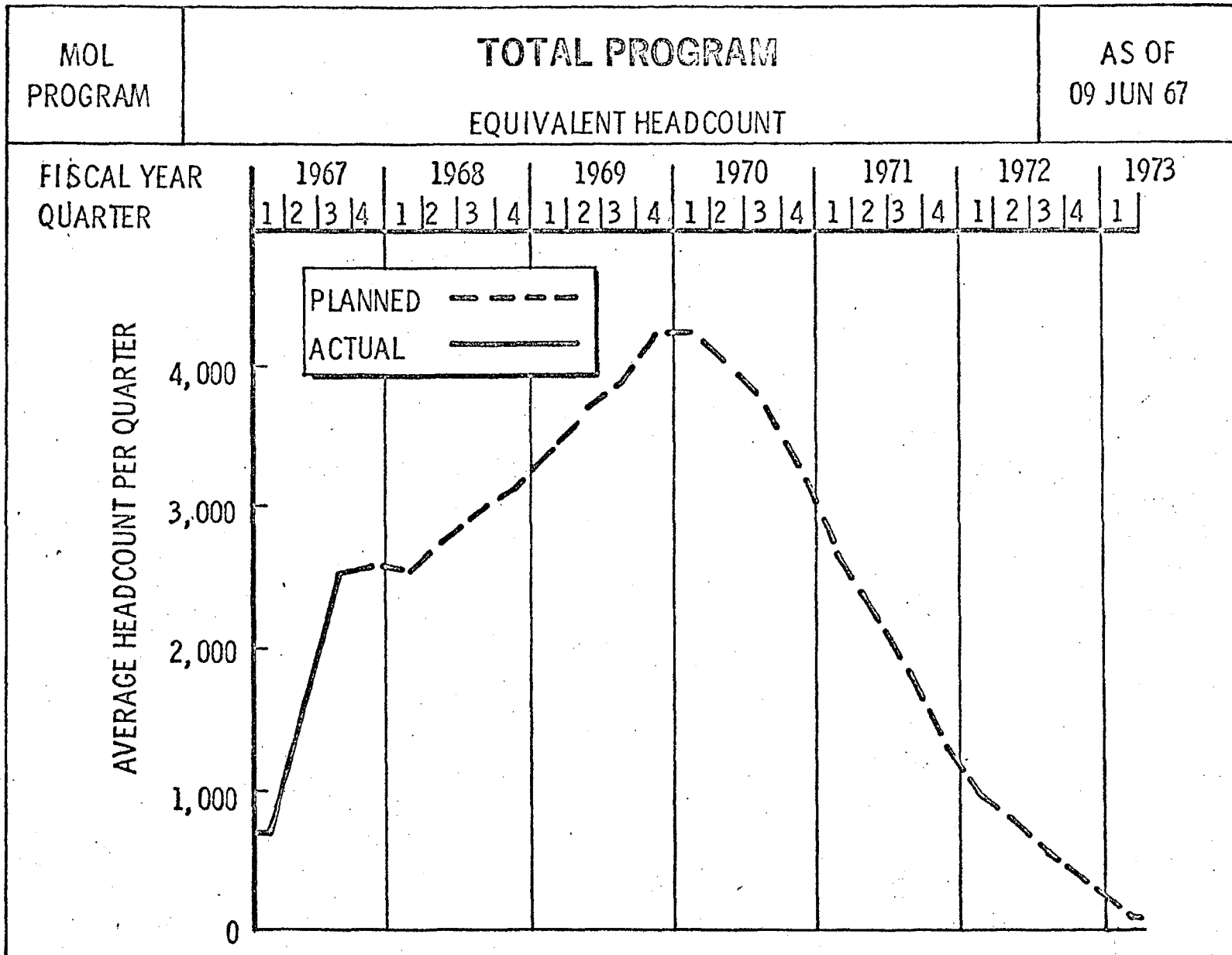


TECHNICAL OBJECTIVES	EVAL
POWER	0
MISSION LIFE	0
FUEL CONSUMPTION	0
WEIGHT	0

MOL PROGRAM	<b>COST SUMMARY CHART</b>	AS OF 06 JUN 67
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PLANT: PRATT & WHITNEY AIRCRAFT EAST HARTFORD, CONN.		REPORT DATE: 14 JUNE 1967	
SUBCONTRACT NUMBER: DAC-66-6073	CONTRACT TYPE: FPI	DESCRIPTION: PRIMARY POWER SUBSYSTEM	FACE VALUE TARGET PRICE \$25,729,491
		CONTRACT PERIOD: FROM: SEPT 66. TO: MAY 70	



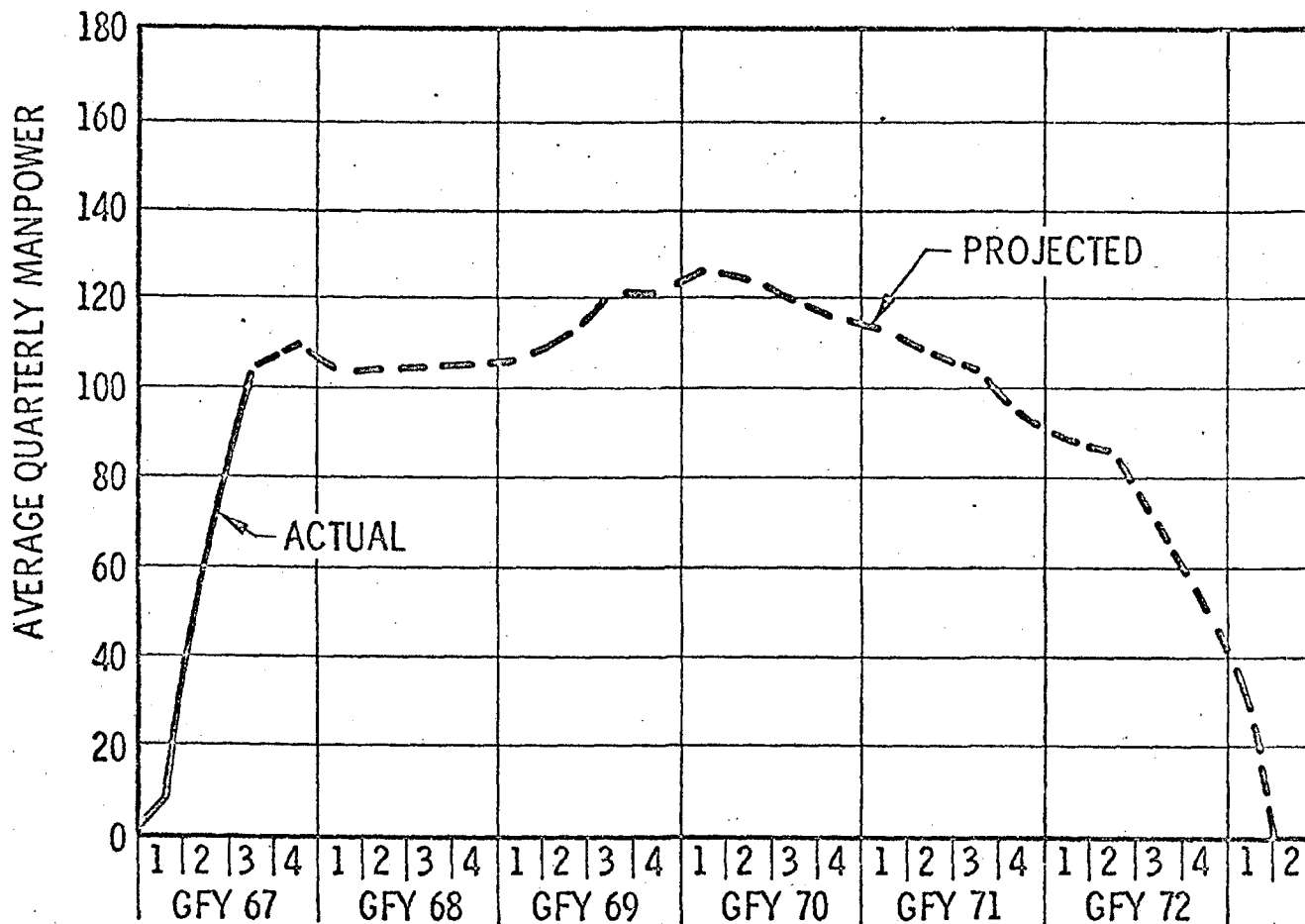


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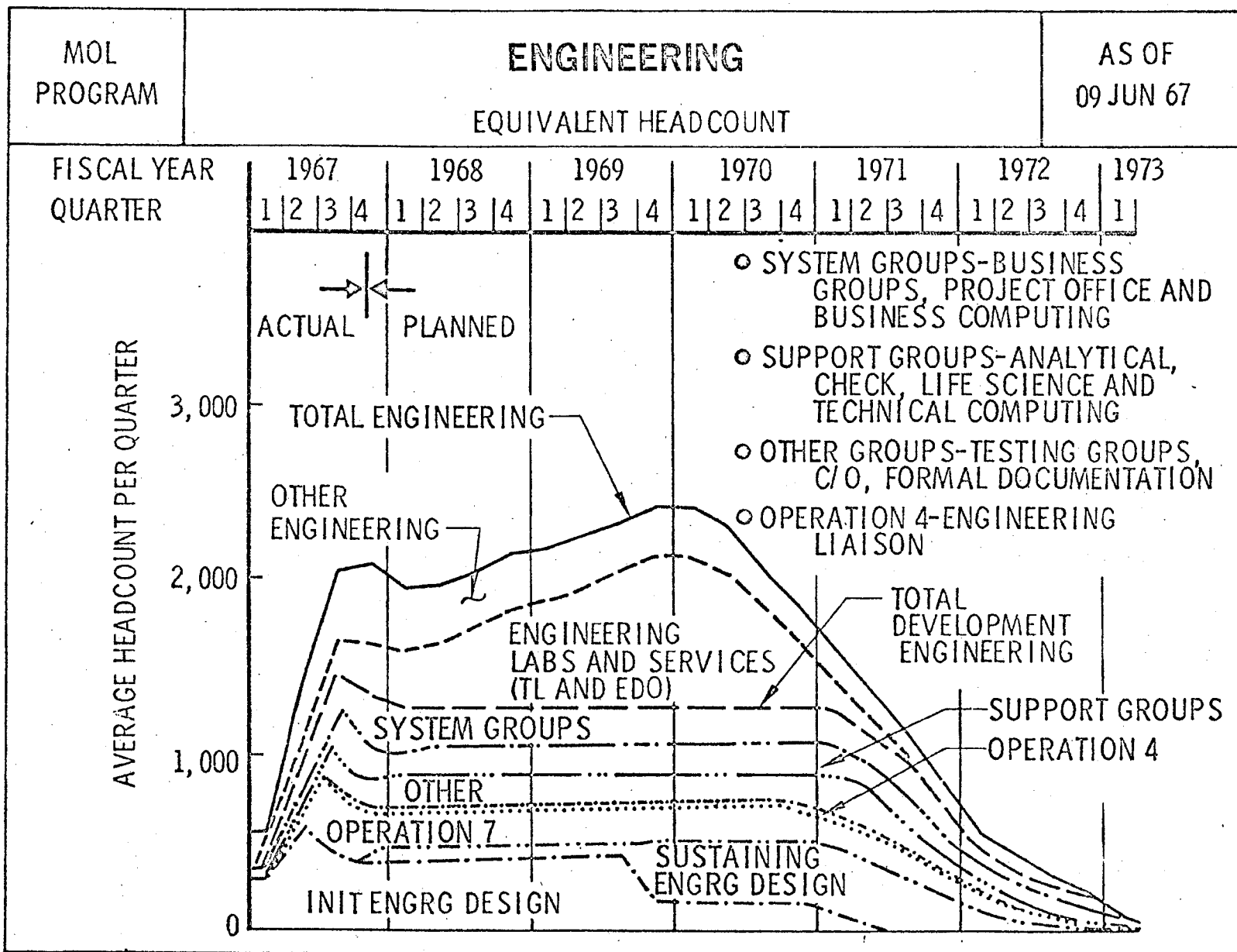
MOL  
PROGRAM

### TOTAL MANPOWER

AS OF  
28 MAY 1967



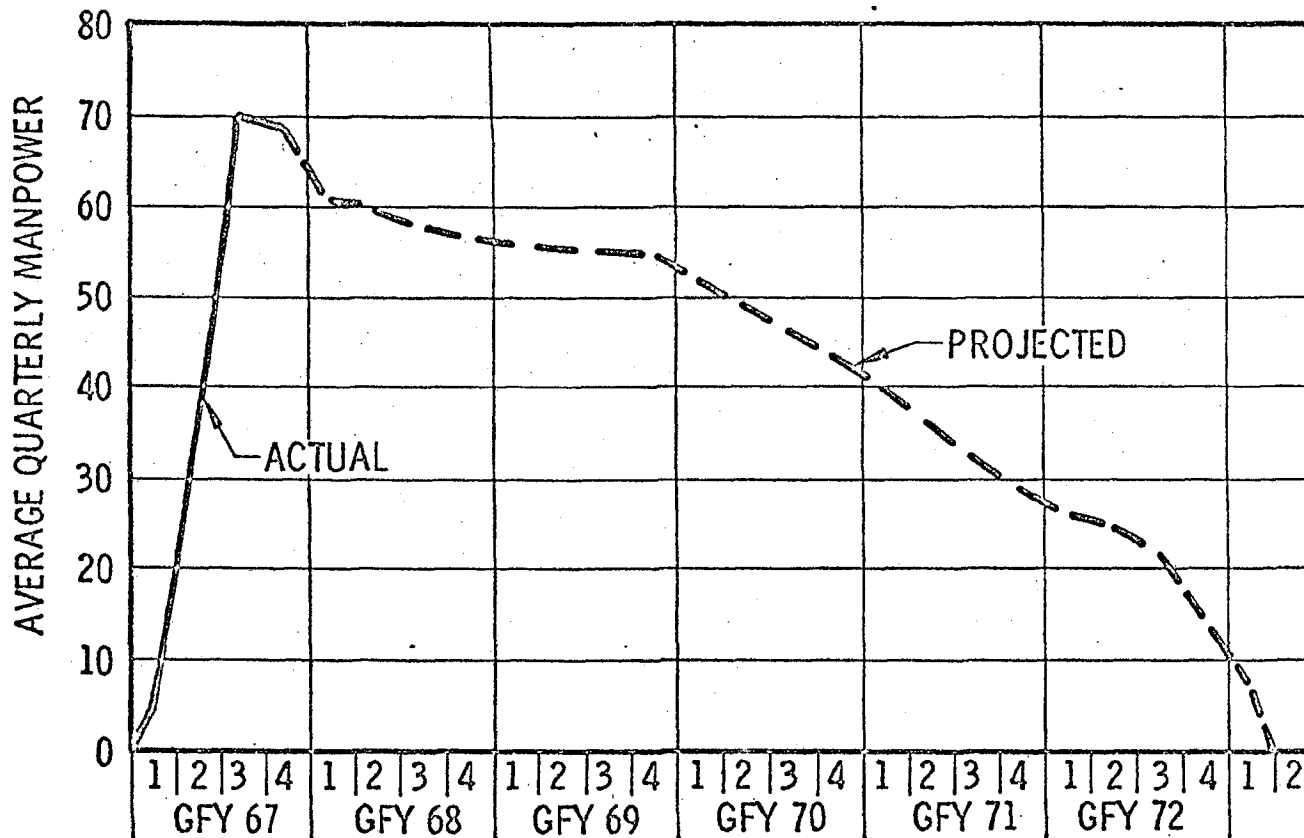
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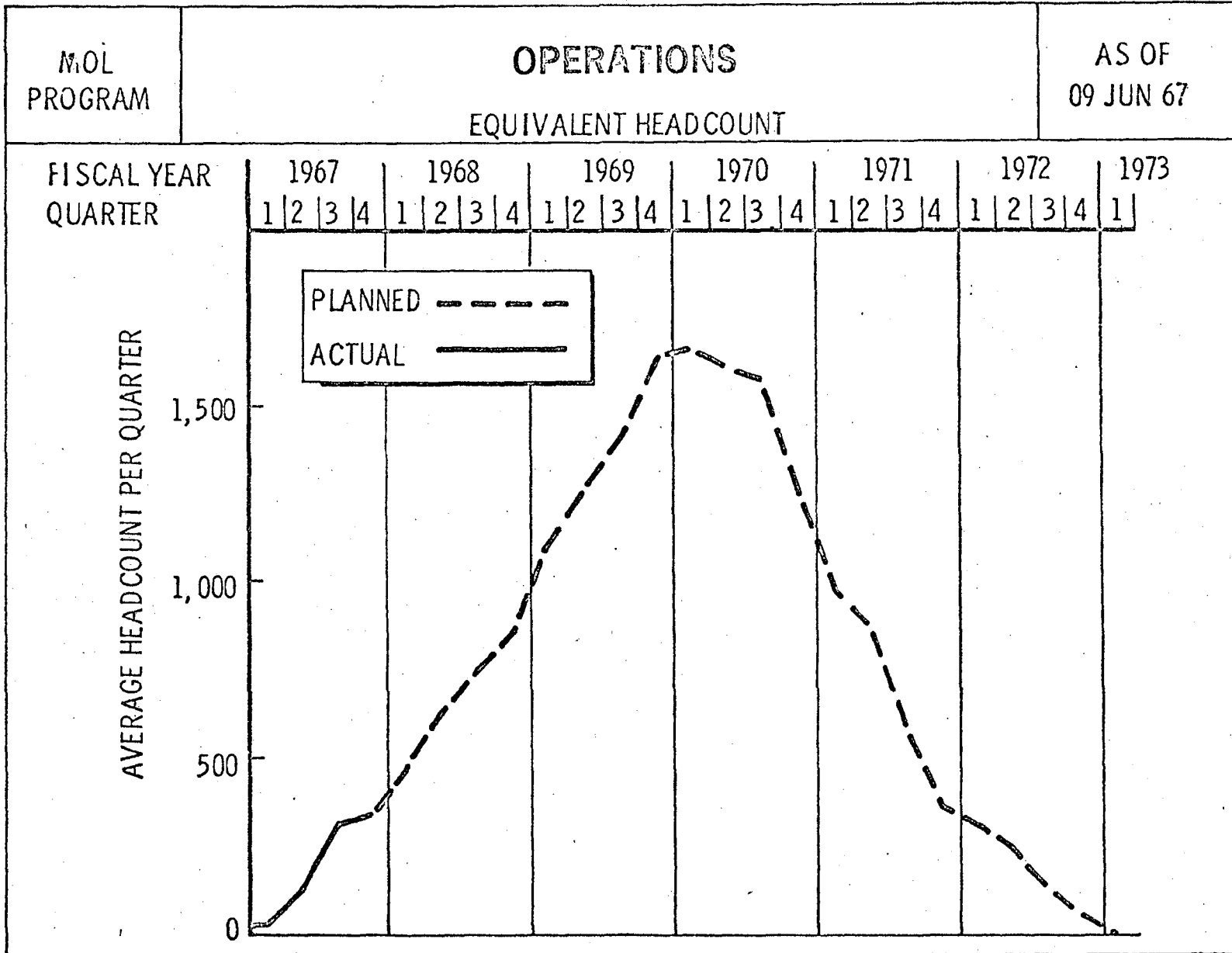


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PROGRAM

# ENGINEERING MANPOWER

AS OF  
28 MAY 1967





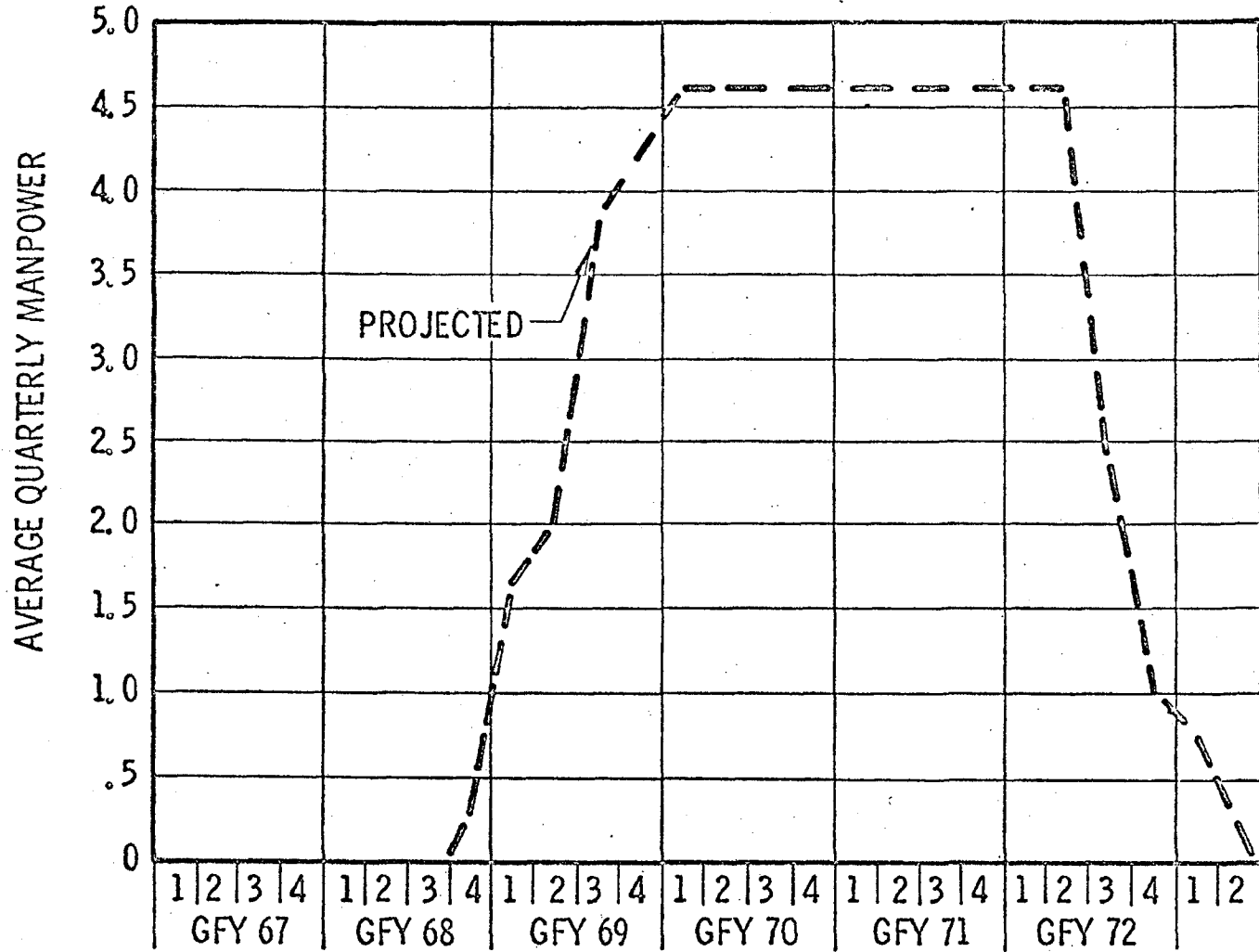


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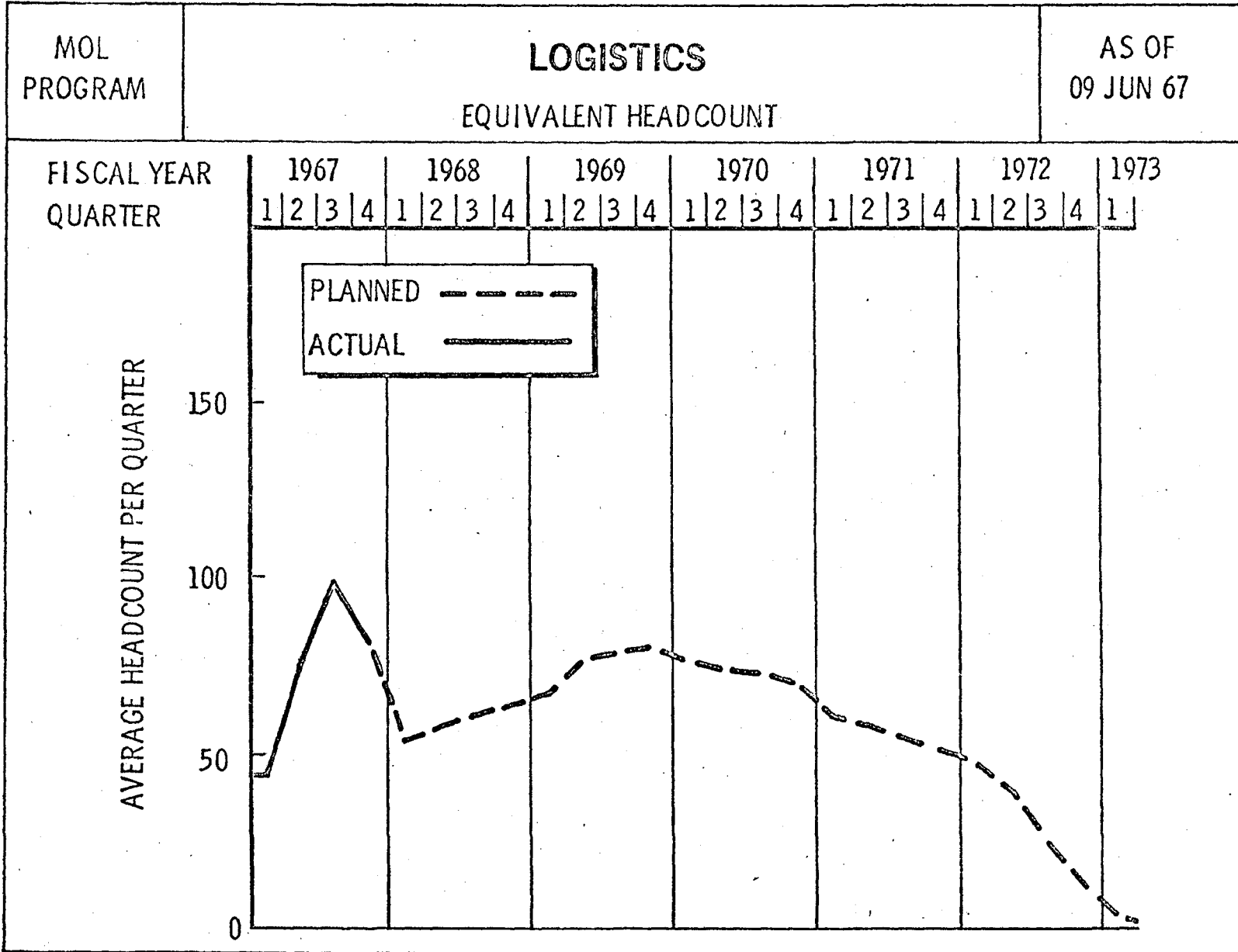
MOL  
PROGRAM

### PRODUCTION MANPOWER

AS OF  
28 MAY 1967

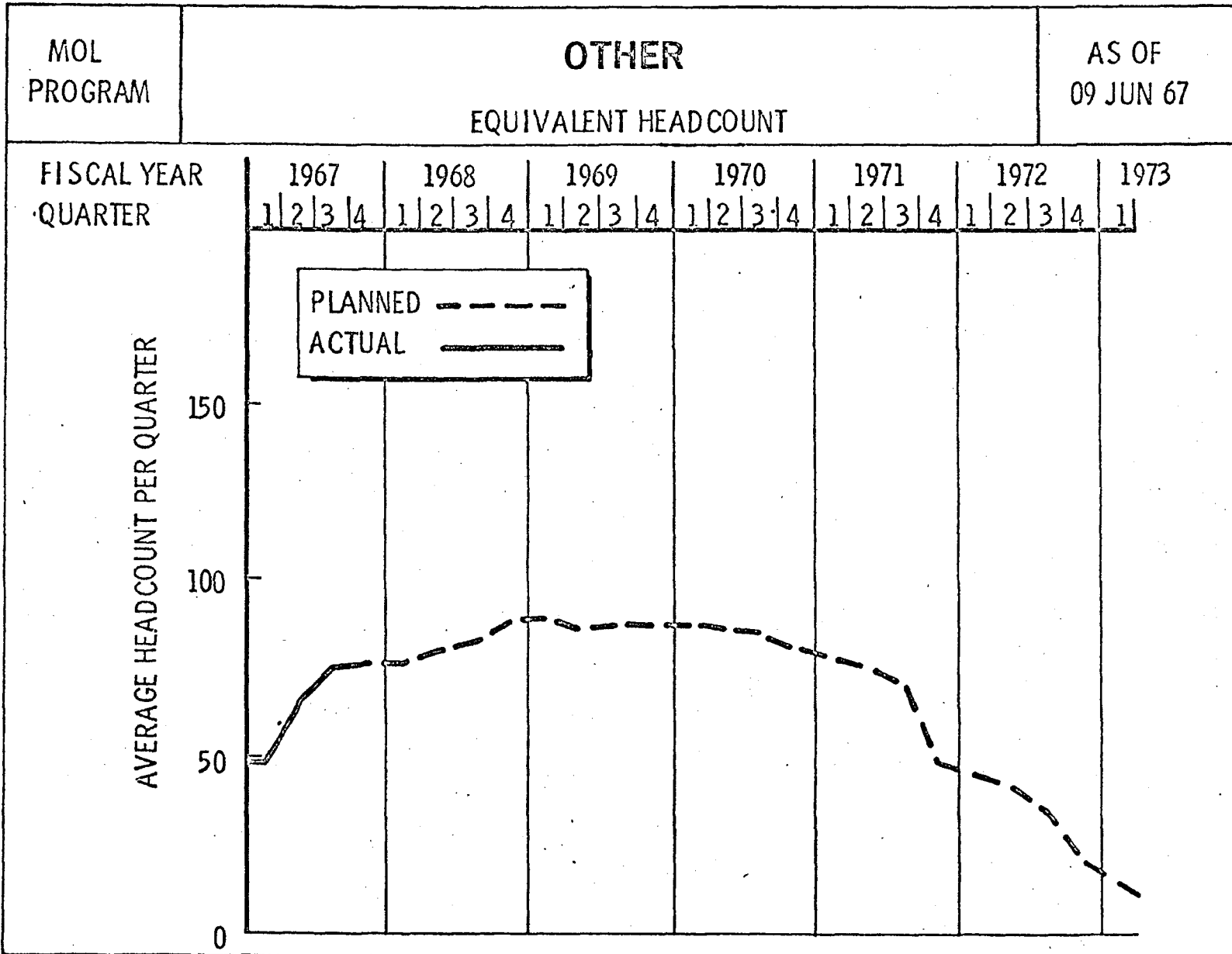


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VI306-1

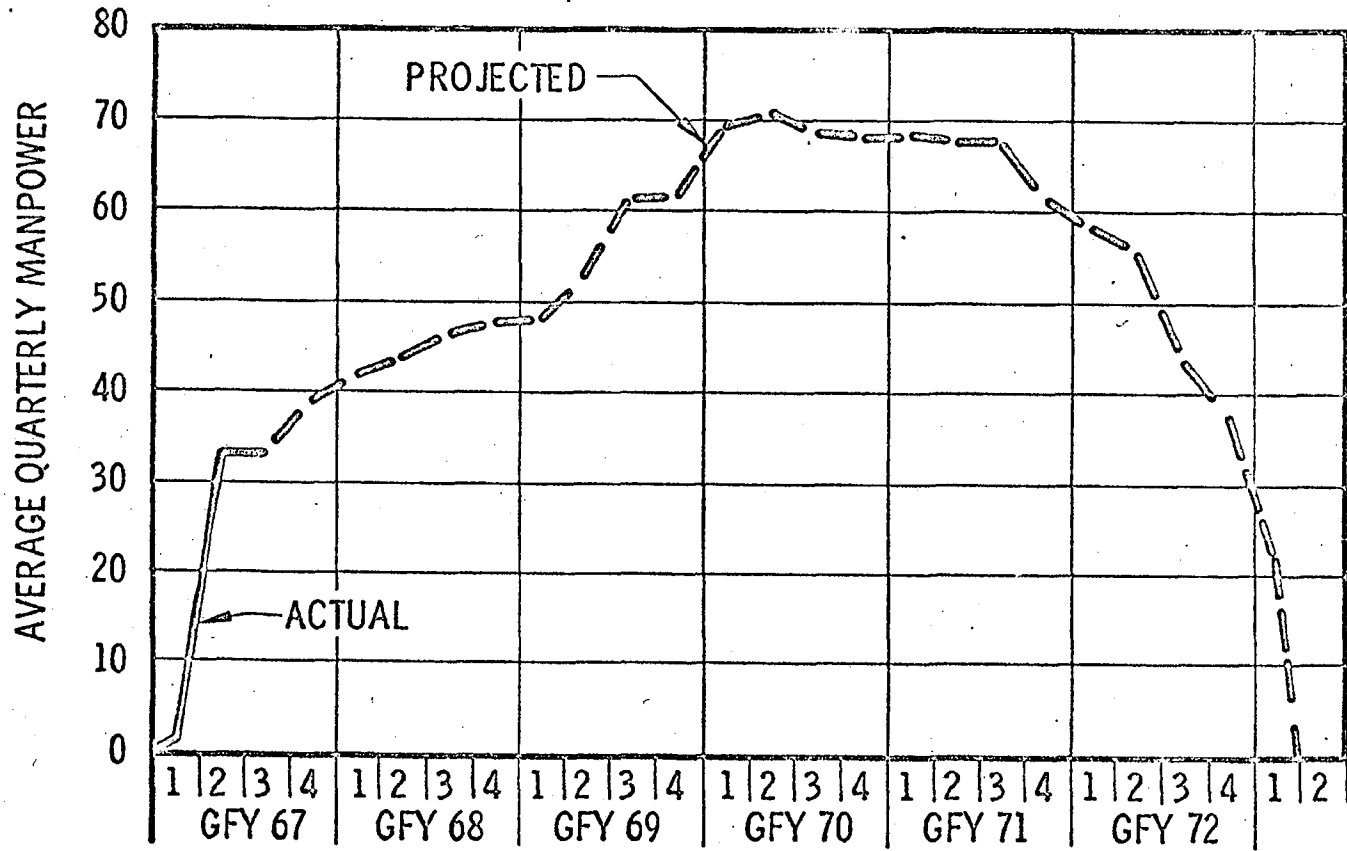


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MOL  
PROGRAM

OTHER MANPOWER

AS OF  
28 MAY 1967

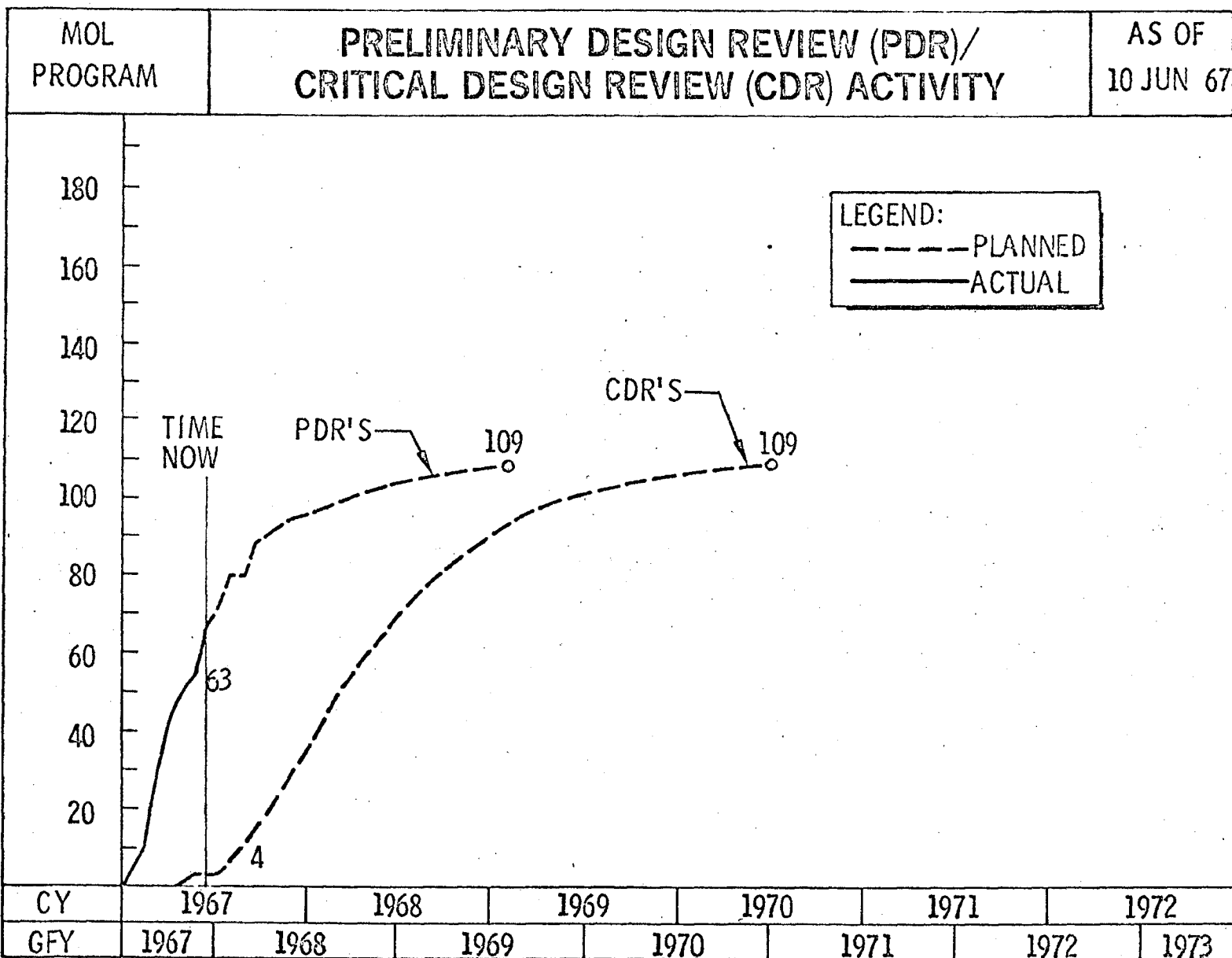


V1307-2

MOL PROGRAM		MILESTONE CHART LONG TERM					AS OF 06 JUN 67																													
CONT CODE	CONTRACT NUMBER	CONT TYPE FPI	CUSTOMER AND TECH/PROC OFFICE AIR FORCE AFSC/SSD	DESCRIPTION MANNED ORBITING LABORATORY	FACE VALUE (000) 787,452	PROGRAM MANAGER R L JOHNSON	OPER AUTH BASIC	CONTRACT PERIOD SEP 66 TO JUN 72	POTENTIAL FOLLOW-ON																											
				EVAL	1968			1969			1970																									
					J	F	M	A	M	J	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
CONTRACT START (01 SEP 66)				△																																
SHIP NON-PRIME NO. 2 MM (FWD SECT)				△																																
SHIP PRIME NO. 1 MM (FWD SECT)					△																															
SHIP MOL TOL COMPILER					△																															
COMP LM DESIGN REVIEW					△(PRELIMINARY)			△(CRITICAL)																												
SHIP FV NO. 3 MM (FWD SECT)								△																												
SHIP LM SIMULATION EQUIPMENT											△																									
SHIP FV NO. 3 MM (AFT SECT)														△																						
LAUNCH VEHICLE NO. 3 AVAIL FOR SHIPMENT														△																						
START LMQTV QUAL																	△																			
LAUNCH VEHICLE NO. 2 AVAIL FOR SHIPMENT																	△																			
LAUNCH VEHICLE NO. 3 AVAIL FOR SHIPMENT																	(OCT 70)																			

VI307-3

MOL PROGRAM		MILESTONE CHART						AS OF 06 JUN 67											
		SHORT TERM																	
CONT CODE	CONTRACT NUMBER	CONT TYPE FPI	CUSTOMER AND TECH/PROC OFFICE AIR FORCE AFSC/SSD	DESCRIPTION MANNED ORBITING LABORATORY	FACE VALUE (000) 787,452	PROGRAM MANAGER R L JOHNSON	OPER AUTH BASIC	CONTRACT PERIOD SEP 66 TO JUN 72	POTENTIAL FOLLOW-ON -----										
				EVAL	1967					1968									
					A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
CONTRACT START (01 SEP 66) $\Delta$																			
PARTIAL LM EVA MOCKUP TRAINER _____																			
MM NON-PRIME FWD SECT NO. 1 _____																			
MM NON-PRIME FWD SECT NO. 2 _____																			
PRODUCTION LM FWD SECT _____																			
ON ORBIT OPERATIONAL SOFTWARE _____																			
LM DRV LAUNCH TUBE AND STRUCT SECT _____																			
MM PRIME FWD SECT NO. 1 _____																			
MM STRUCT RINGS (PARTIAL FWD SECT) _____																			
DCSG UTILITY PROGRAM _____																			
MM PRIME FWD SECT NO. 2 _____																			
TAPE READ PROGRAM _____																			
DCSG INPUT/OUTPUT INTERFACE SOFTWARE _____																			
LM THERMAL SUBSTITUTE (LM TO MM) _____																			



MOL PROGRAM	SIGNIFICANT EVENTS - PAST 30 DAYS	AS OF 9 JUN 67
<p>PAST 30 DAYS (11 MAY TO 9 JUN)</p> <ul style="list-style-type: none"><li>○ 11 MAY      PROGRAM BRIEFING TO DR. FLAX</li><li>    19 MAY      BASIC CONTRACT DISTRIBUTION</li> <li>○ 22 - 25 MAY    INTEGRATED SCHEDULE MEETING (DOUGLAS-ASSOCIATES-SPO)</li>  <li>○ 7 JUN        MOL EXECUTIVE COUNCIL (WASHINGTON)</li><li>○ 8 JUN        RE-SCHEDULING OF MISSION MODULE NON-PRIME UNITS</li>  <li>○ 11 PRELIMINARY DESIGN REVIEWS COMPLETED</li><li>○ 2 CRITICAL DESIGN REVIEWS COMPLETED</li></ul>		



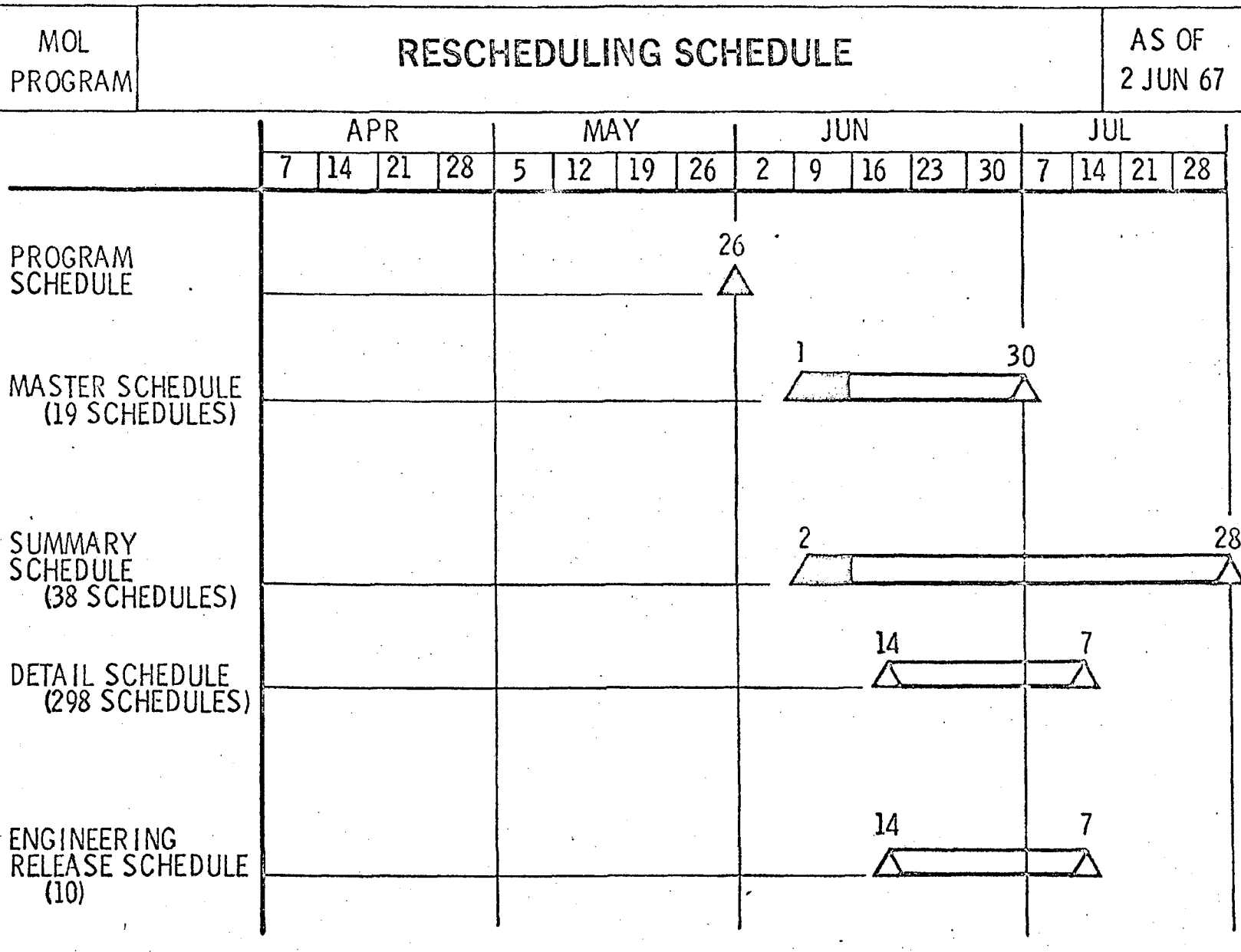
MOL  
PROGRAM

SIGNIFICANT EVENTS - NEXT 30 DAYS

AS OF  
9 JUN 67

NEXT 30 DAYS (10 JUN TO 10 JUL)

- 26 JUN      SUBMIT COST PROPOSAL ON COMPACT PROGRAM
- 28 JUN      START CONTRACT DOCUMENTATION NEGOTIATIONS
  
- 8    PRELIMINARY DESIGN REVIEWS TO BE COMPLETED



V1236-9A

MOL PROGRAM	PERT REVISION SCHEDULE												AS OF 2 JUN 67		
	JUN					JUL				AUG					
	2	9	16	23	30	7	14	21	28	4	11	18	25		
DEPT 804 REQUIRED ENGINEERING RELEASE DATES AVAILABLE				▲											
UPDATE AND COMPUTE USING REQUIRED RELEASE DATES					▲	▲									
RECEIVE ENGINEERING REESTIMATES															
COMPUTE PARTIAL REESTIMATES ALL DEPARTMENTS									▲						
COMPUTE - TOTAL REESTIMATES ALL DEPARTMENTS												▲			
SYSTEM 100% OPERABLE, WORKING GROUPS, MANAGEMENT REVIEW ETC.													▲		

V1235-8C

MOL PROGRAM	12 MONTH COMPACT FINANCIAL PLANNING AND CONTROL SYSTEM ADJUSTMENT					AS OF 02 JUN 67					
	MAY 7 14 21 28		JUN 4 11 18 25		JUL 2 9 16 23 30		AUG 6 13 20 27		SEP 3 10 17 24		
ISSUE FIRM BUDGETS THROUGH 25 JUN 30 DEC			△								
UPDATE SCHEDULES SUBSYSTEM TO REFLECT "12C" DATES		[Bar from May 14 to Aug 13]					△				
REVIEW BUDGET CENTER DATA SUBMITTED FOR "12C" DELTA			[Bar from Jun 4 to Jun 11]	△							
REDUCE TOTAL COST ACCOUNT VALUES TO ALLOW FOR MANAGEMENT RESERVE				△							
COORDINATE NEW VALUES AT COST ACCOUNT LEVEL WITH BUDGET CENTERS			[Bar from Jun 11 to Jun 18]	△							
TIME PHASE COST ACCOUNT LOADS					[Bar from Jul 9 to Aug 6]	△					
INPUT NEW COST ACCOUNT BUDGET LOADS							[Bar from Aug 13 to Aug 20]	△			
ISSUE BUDGET BY COST ACCOUNTS								△			
TOTAL SYSTEM OUTPUT REPORTS									△		

~~SECRET SPECIAL HANDLING~~

V1400-7

MOL PROGRAM	<b>CONTRACT SUMMARY REPORT-DEVELOPMENT</b>	AS OF 06 JUN 67
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CONT CODE	CONTRACT NUMBER	CONTRACT TYPE: FPI	TECH PROC OFFICE USAF AFSC SSD	DESCRIPTION: MANNED ORBITING LABORATORY	FACE VALUE: (THOUSANDS) 787,452	PROGRAM MANAGER R.L. JOHNSON	OPR AUTH BASIC	CONTRACT PERIOD SEP 66 JUN 72	POTENTIAL FOLLOW-ON
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COST	\$(000)
AT COMPLETION (AS OF DATE TARGET COST 28 MAY 67)	719,000
ESTIMATED COST	719,000
TO DATE (AS OF DATE CUSTOMER FUNDING 28 MAY 67)	94,000
BUDGETED COMMITMENTS	81,400
ACTUAL COMMITMENTS	76,980
EXPENDITURES	72,480
EARNED VALUE (EXPEND)	N/A

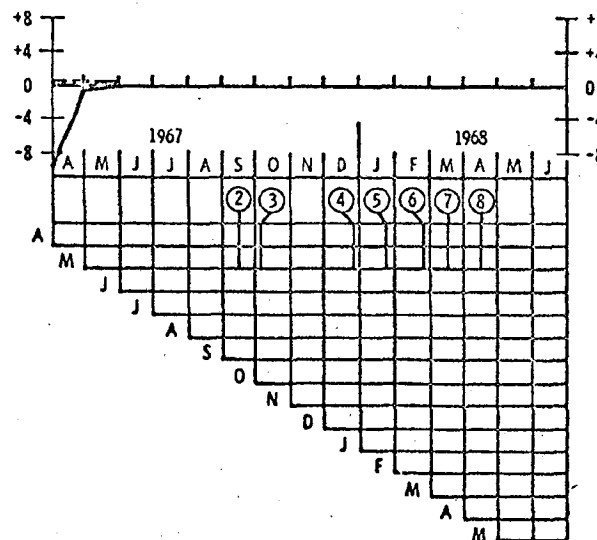
PROFIT	\$	%
TARGET	68,452	9.5
ESTIMATE	68,452	9.5

OVERALL EVALUATION				
COST	SCHED	TECH	CUST SATIS	PROFIT
0	0	0	0	0

KEY TASKS MAJOR SUBSYSTEMS	EVALUATION			
	COST	SCHED	WT	EFFEC
STRUCTURES	0	0	0	0
ACTS	0	0	0	0
EC&LS	0	0	0	0
DATA MGMT	0	0	0	0
INSTR & DISPLAY	0	0	0	0
COMMUNICATIONS	0	0	0	0
ELECTRIC POWER	0	0	0	0
MISSION SIMULATOR	0	0	0	0
AGE	0	0	0	0
CREW STA & ACCOM	0	0	0	0

**COST VARIANCE**

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PVWA/ EST COST/  
EXPEND. TARGET COST



- KEY MILESTONES DESCRIPTION**
1. CONTRACT START (01 SEP 66)
  2. PARTIAL LM EVA MOCKUP TRNR
  3. MM NONPRIME FVD SECT. NO.1
  4. MM NONPRIME FVD SECT. NO.2
  5. PRODUCTION LM FVD SECT. NO.1
  6. MM PRIME FVD SECT. NO.1
  7. MM PRIME FVD SECT. NO.2
  8. LM THERMAL SUBSTITUTE

TECHNICAL OBJECTIVES	EVAL
CREW SAFETY	0
MISSION COMPL	0
DATA ACQ	0
WEIGHT	

~~SECRET SPECIAL HANDLING~~

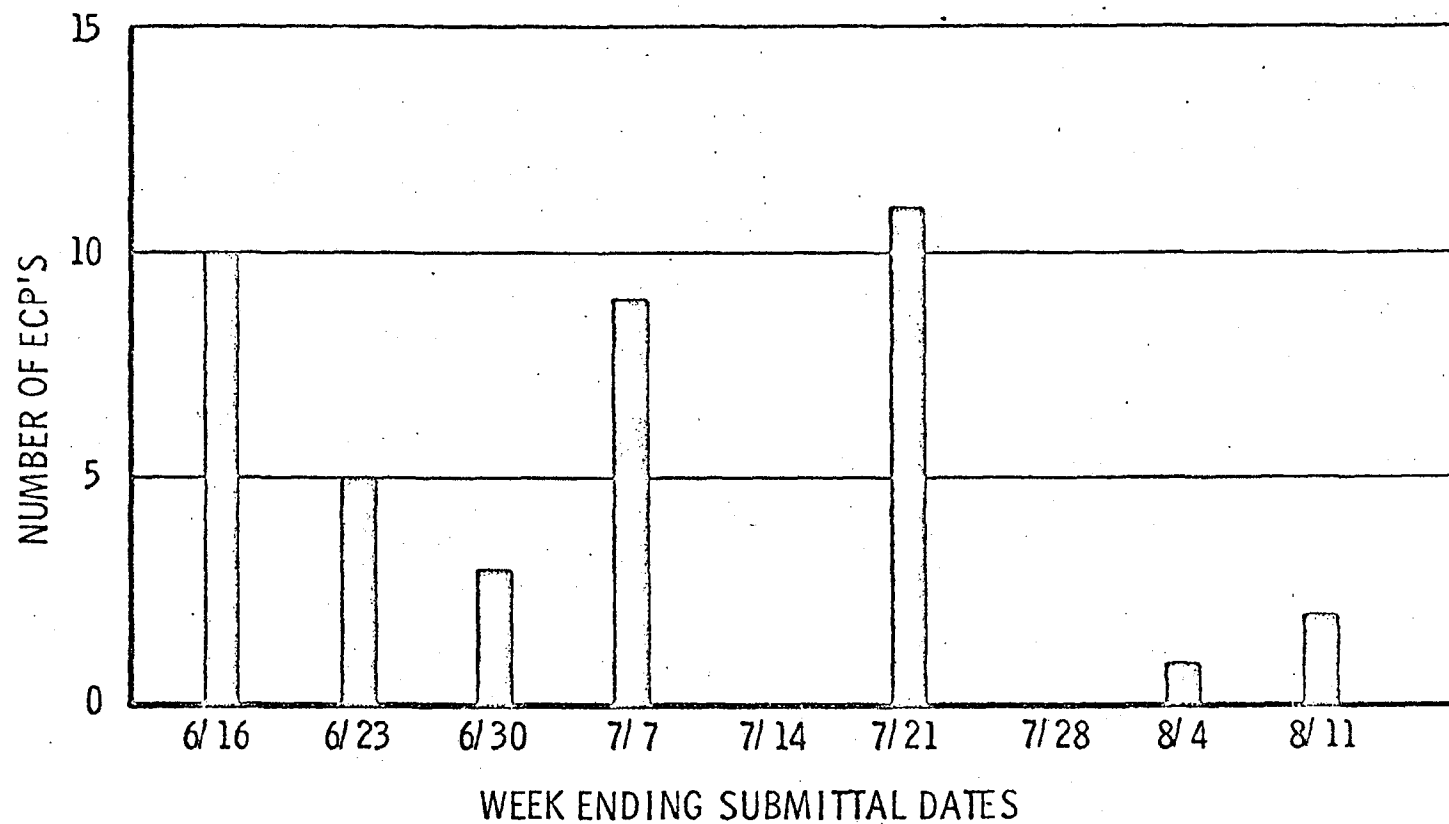
V1296-8

TOTAL ECP IMPACT

- TOTAL NUMBER 85
- SUBMITTED TO DATE 45
- IN-WORK 40

V1297-6

### ANTICIPATED COMPLETIONS



M O L  
PROGRAM

PROGRAM PROBLEMS

AS OF  
13 JUNE 67

- . FISCAL YEAR 1968 FUNDING LIMITATION
- . FINAL DEFINITION OF EXCHANGE HARDWARE REQM'TS
- . ATP ON CRITICAL DEFERRED ITEMS
- . CRITERIA FOR PDR COMPLETE
- . STIFFNESS REQM'T FOR MISSION MODULE STRUCTURE