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DAC

HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

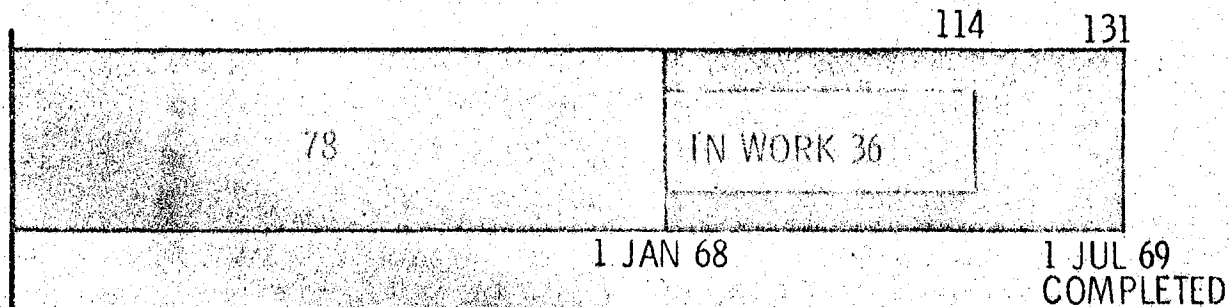
V1746-4

AS OF
5 DEC 67

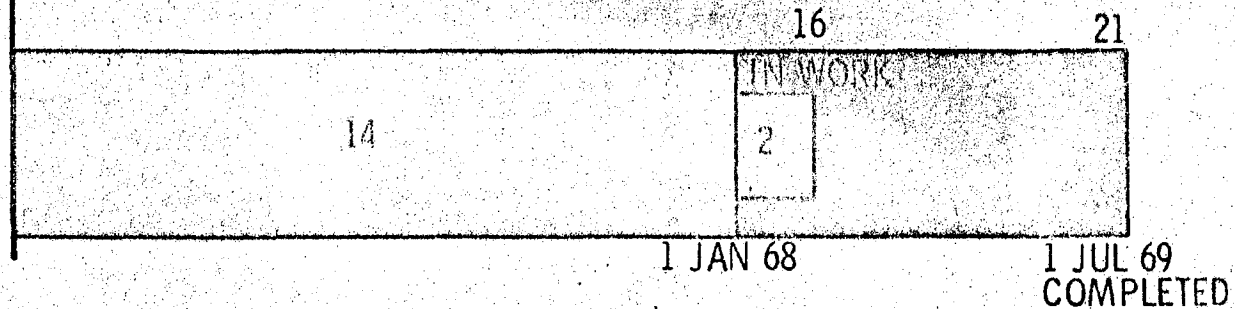
MOL
PROGRAM

INTERFACE DOCUMENTATION

DOUGLAS
CUSTODIAN



DOUGLAS
PARTICIPANT



● UNRESOLVED INTERFACES ARE NOT IMPEDING PROGRAM PROGRESS

EXCLUDED FROM AUTOMATIC
REGRADING; DOD DIR 5200.10

DOES NOT APPLY

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BYE-66894-67, C-1

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V1746-6

MOL
PROGRAM

DESIGN DEFINITION

AS OF
5 DEC 67

PDR'S
HELD

	97	97	130
--	----	----	-----

1 JAN 68

COMPLETE
1 MAY 69

CDR'S
HELD

10	10	128	180*
----	----	-----	------

1 JAN 68

1 JUL 69

* INCLUDES INCREMENTAL REVIEWS

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V1746-8A

MOL PROGRAM	DRAWING RELEASES			AS OF 5 DEC 67
TEST DRAWINGS	368	1,095	1,354	
RELEASES	368		259	
	1 JAN 68	1 JUL 69	1 MAR 70	
PRODUCTION DRAWING	654	3,600	5,000	
RELEASES	654	1,400		
AVE	1 JAN 68	1 JUL 69	1 FEB 70	
	2,047	8,800	10,027	
AGE	2,047	6,753	11,277	
	1 JAN 68	4 JUL 68	1 FEB 70	
	400	900	1,100	
MSE	400	500	200	
	1 JAN 68	1 JUL 69	1 NOV 69	
PRINTED CIRCUIT		56	100	
BOARDS				
* DRAWING RELEASES	56			
	1 JAN 68		1 JUL 69	
		6,500	8,000	
RESULTING BOARDS	6,500		1,000	
	1 JAN 68	1 JUL 69		

* INCLUDED IN PRODUCTION DRAWING DATA

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V1747-1A

MOL
PROGRAM

DEVELOPMENT TEST
(GROUND TEST PLAN LINE ITEMS)

AS OF
5 DEC 67

IN HOUSE	37	175	221
RELEASED	37		46
	1 JAN 68	1 JUL 69	1 JAN 70
COMPLETE	10	140	221
	10		81
	1 JAN 68	1 JUL 69	1 JUL 70
VENDOR/MSK	5		201 212
RELEASED			11
	1 JAN 68	1 JUL 69	1 JAN 70
COMPLETE		150	212
			62
	1 JAN 68	1 JUL 69	1 JUL 70

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MOL
PROGRAM

TOOLING

AS OF
5 DEC 67

	241	306	803
MAJOR * TOOLING	241	65	
	1 JAN 68		1 JUL 69
		895	2,600
MINOR TOOLING	895		
	1 JAN 68		1 JUL 69

* LARGE DESIGNED TOOLING, INCLUDING PRODUCTION TEST EQUIPMENT
AND 3 ASSEMBLY AND CHECKOUT TOWERS

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MOL PROGRAM	MATERIAL		AS OF 5 DEC 67
ENGINEERING RELEASE OF AUTHORITY TO BUY	6,951	13,000	15,000
	6,951	6,000	2,000
	1 JAN 68	1 JUL 69	
PURCHASE ORDERS PLACED	3,543	7,000	8,500
	3,543	3,450	1,500
	1 JAN 68	1 JUL 69	
VALUE OF PURCHASE ORDERS PLACED (MILLIONS OF \$)	4.9	31.8	43.6
	4.9	26.9	11.8
	1 JAN 68	1 JUL 69	
VALUE OF MATERIAL RECEIVED (MILLIONS OF \$)	2.9	24.1	43.6
	2.9	21.2	19.5
	1 JAN 68	1 JUL 69	

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V1747-5

MOL
PROGRAM

PRODUCTION COMPLETIONS

AS OF
5 DEC 67

AVE	11	11	40	51
	1 JAN 68	1 JUL 69		1 SEP 72
AGE	(1)	30		171
	1 JAN 68	1 JUL 69	141	1 JUN 72
MISSION SIMULATOR			3	3
				1 APR 70
SOFTWARE	(1)		6	13
	1 JAN 68	1 JUL 69	7	1 AUG 70
SUBSTITUTES	3	3	10	12
	1 JAN 68	1 JUL 69	2	1 JAN 71
MAJOR TEST ITEMS		9	3	12
	1 JAN 68	1 JUL 69		1 JAN 71

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HANDLE VIA BYEMAN
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V1747-8

MOL
PROGRAM

SUBCONTRACTOR DEVELOPMENT PROGRAM

AS OF
5 DEC 67

- MQDT
- DEMONSTRATION TESTS IN PROGRESS
 - EVALUATION TEST - SPECIMENS 80 PERCENT COMPLETE
 - QUALIFICATION TEST - MATERIAL ORDERED - 50 PERCENT PARTS RELEASED
 - EDCTU AND SACTO - DESIGN COMPLETE - IN FABRICATION AND ASSEMBLY
- IBM
- DRAWINGS 95 PERCENT COMPLETE
 - COMPONENT TEST SPECIMENS 90 PERCENT
 - COMPONENT TESTS 80 PERCENT
 - SUBSYSTEM INTEGRATION AND TEST 20 PERCENT
- CRC
- BREADBOARDS - DESIGN - FABRICATION - TEST COMPLETE
 - BRASSBOARDS - DESIGN COMPLETE - FABRICATION IN PROGRESS - TEST START 15 JAN 68
 - DEVELOPMENT - DESIGN 90 PERCENT COMPLETE - FABRICATION IN PROGRESS - TEST START 15 MAY 68
- HAM STD
- DESIGN - 90 PERCENT COMPLETE
 - DEVELOPMENT HARDWARE 60 PERCENT COMPLETE
 - DEVELOPMENT TEST - SEP 67 - SEP 68
 - TEST COMPLETED - MOLECULAR SIEVE HEAT EXCHANGER

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HANDLE VIA BYEMAN
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TECHINGE TEMPLATE

TECHINGE TEMPLATE

TECHINGE TEMPLATE

TECHINGE TEMPLATE

TECHINGE TEMPLATE

TECHINGE TEMPLATE

POWERPLANT EVALUATION

OPERATION EQUATION

INTERVAL MODE
HIGH MODE

OPERATION

300

1000

240

MINIMUM VOLTAGE

200

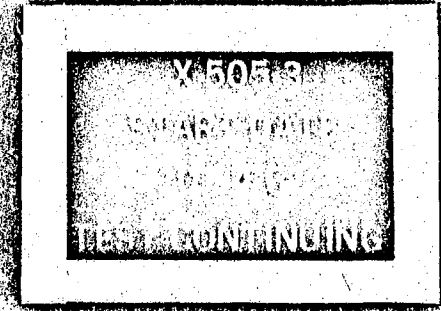
500

1000

1500

2000

GROSS POWER WATTS



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TECHINGE TEMPLATE

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TECHINGE TEMPLATE

TECHINGE TEMPLATE

PC3A-4 POWERPLANT LIFE EVALUATION

HANDLE VIA BEMAL
CONTROL SYSTEM

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STATION	MISSION
1000 HOURS	1000 HOURS
AVERAGE LOAD (KW)	107 KW
KW/HR	91

INTERFACE VOLTAGE

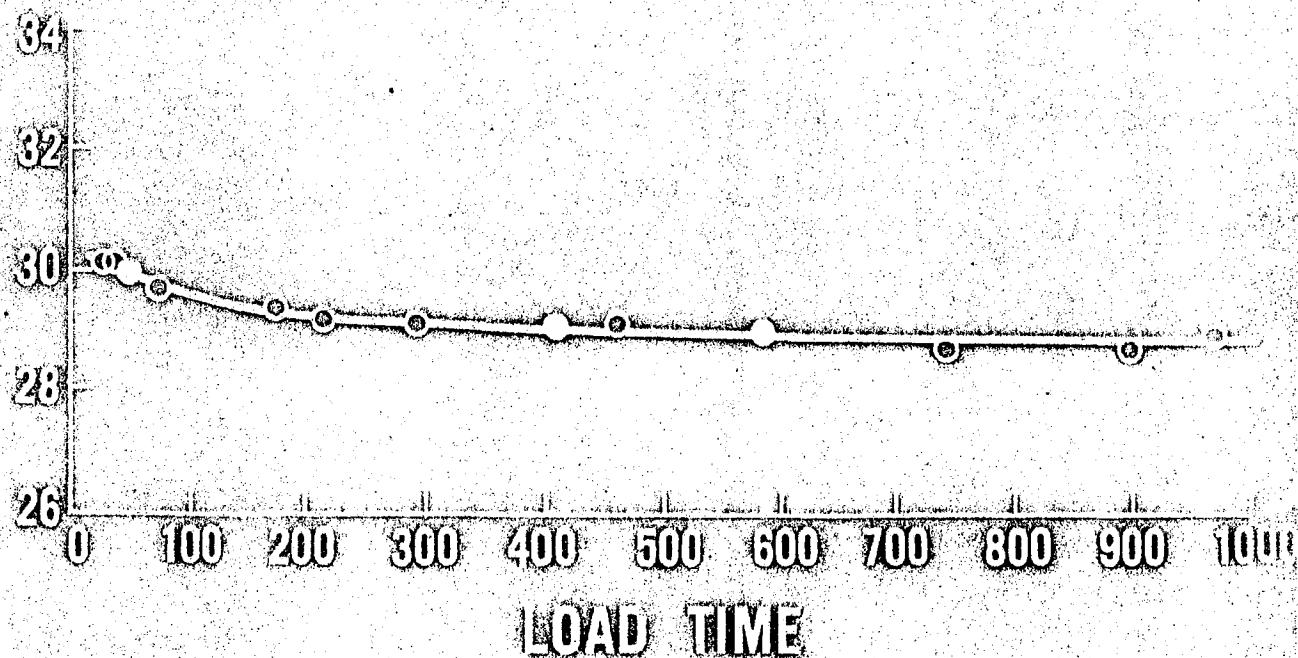


Fig 14-2
W. H. H. H. H.
H. H. H. H. H.



CONTROL SYSTEM

14-2

HANDLE VIA BEMAL
CONTROL SYSTEM

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HANDLE VIA BEMAL
CONTROL SYSTEM

TECHINGE TEMPLATE

TECHINGE TEMPLATE

TECHINGE TEMPLATE

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TECHINGE TEMPLATE

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HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

V1747-9

MOL
PROGRAM

SUBCONTRACTOR DEVELOPMENT PROGRAM
(CONT)

AS OF
5 DEC 67

P&W

- DEVELOPMENT PROGRAM (PERCENT COMPLETE)
 - CELLS, MULTICELLS, POWER SECTIONS - 80 PERCENT
 - FUEL CELL POWER PLANT - 60 PERCENT
 - COMPONENTS - 70 PERCENT
- 2 FUEL CELL POWER PLANTS EXCEEDED MISSION LIFE REQUIREMENTS
ONE TEST CONTINUING
- COMPLETED 5 MULTICELL MISSION LIFE TESTS

FAIRCHILD

- ZERO "G" FLIGHT TEST HARDWARE DELIVERED TO WRIGHT-PATTERSON AFB
- ZERO "G" TESTING 20 NOV 67 - 16 FEB 68
- URINE COLLECTION TESTS COMPLETED
- FECES COLLECTION AND URINE VOLUME DETERMINATION TESTS CONTINUING
- PRODUCTION DRAWING RELEASE - 28 PERCENT RELEASED

AI RESEARCH

- DESIGN 70 PERCENT COMPLETE
- BREADBOARD TESTS 60 PERCENT COMPLETE
- DEVELOPMENT TESTS (DOUGLAS GTP) START MAR 68 - SEP 68

HONEYWELL

- BREADBOARD DESIGN AND FABRICATION COMPLETE - TEST
75 PERCENT COMPLETE
- EDU NO. 1 - STATIC TESTS JAN 68 - JUL 68
 - EMI TESTS MAR 68 - MAY 68
 - AIR BEARING TABLE TESTS SEP 68 - DEC 68
- EDU NO. 2 ASSEMBLY DEVELOPMENT TESTS MAR 68 - AUG 68
- AGE DESIGN COMPLETE - FABRICATION IN PROGRESS

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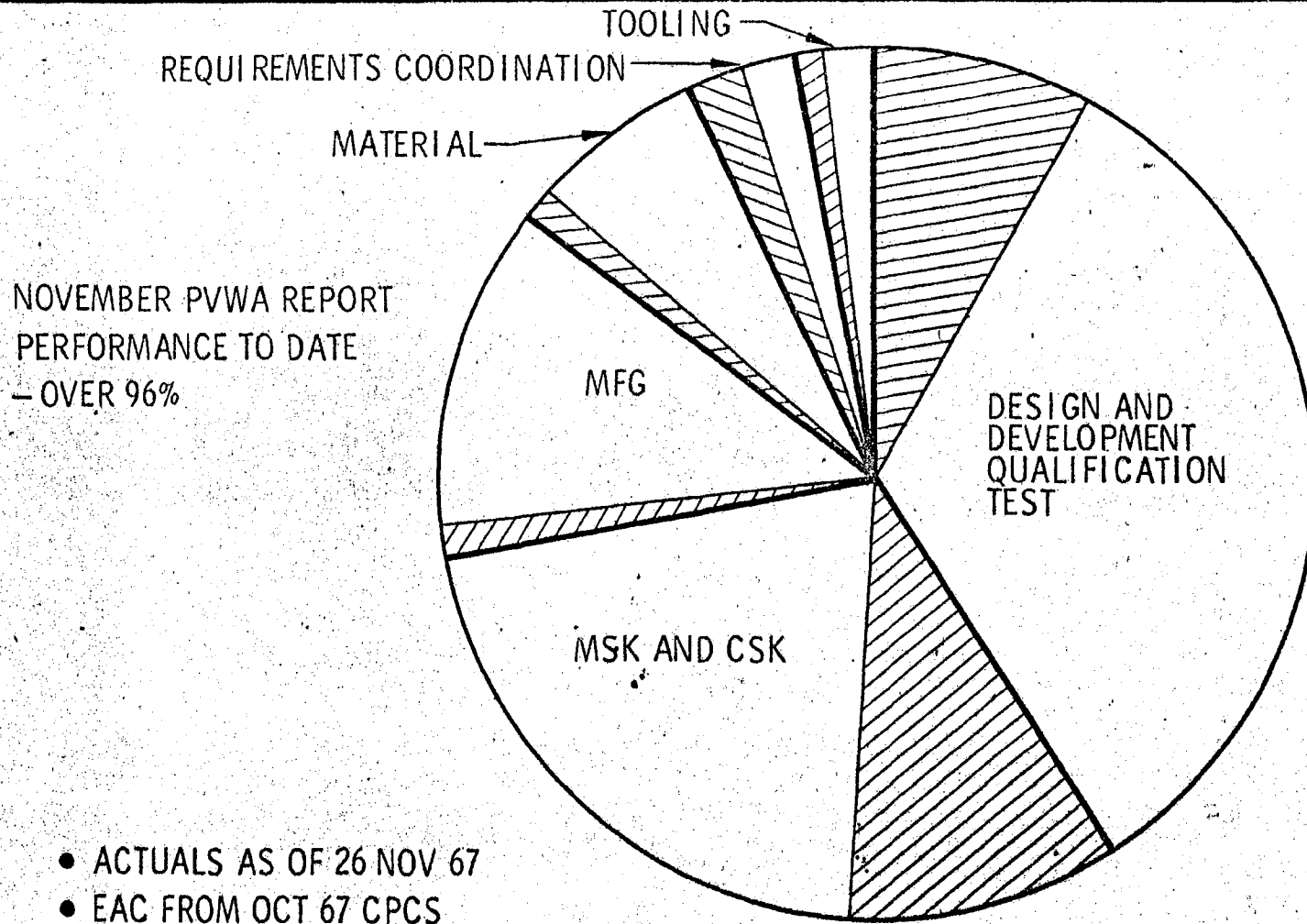
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HANDLE VIA BYEMAN
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MOL
PROGRAM

FINANCIAL ANALYSIS

AS OF
26 NOV 67



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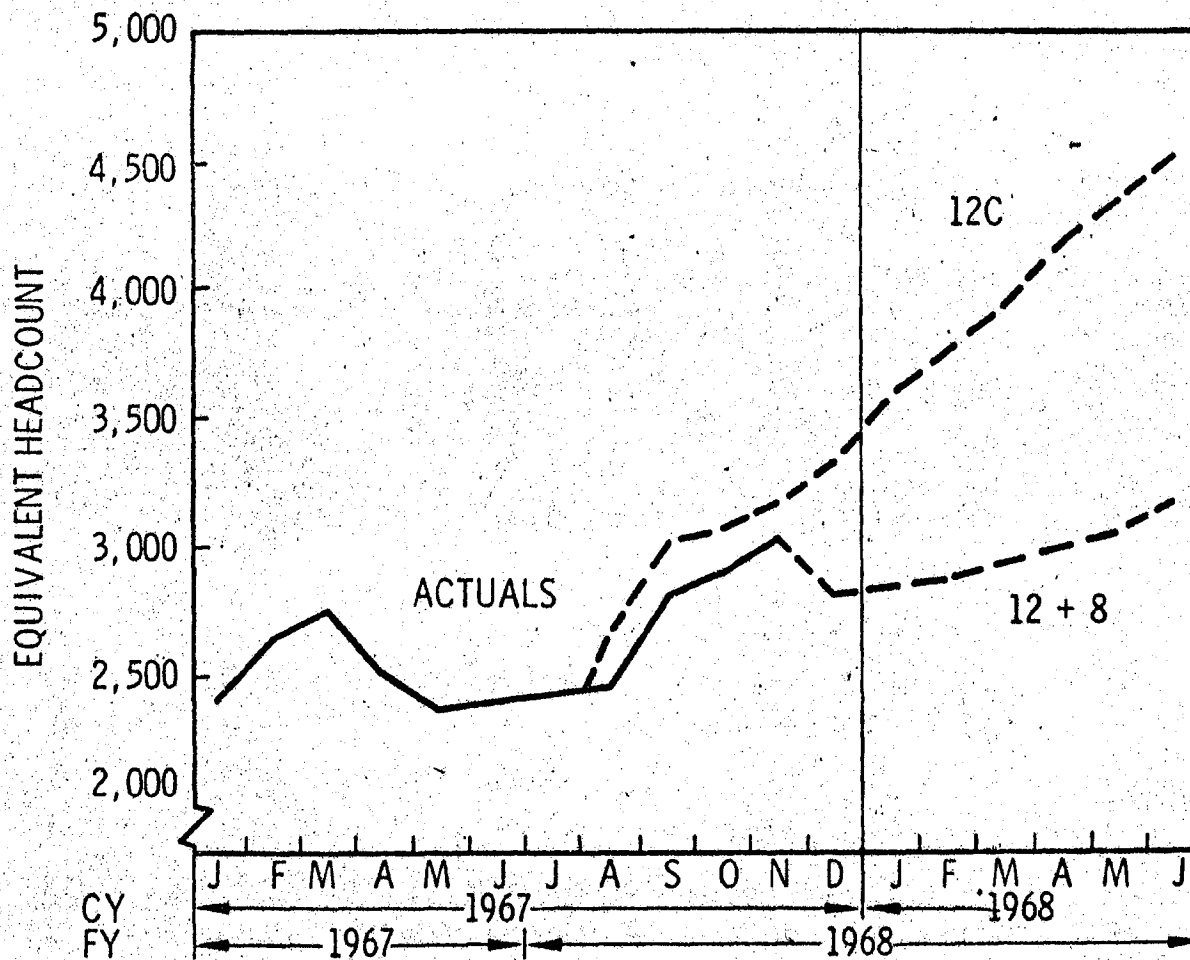
HANDLE VIA BYEMAN
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V1748-8

MOL
PROGRAM

TOTAL DIRECT LABOR

AS OF
7 DEC 67



HANDLE VIA BYEMAN
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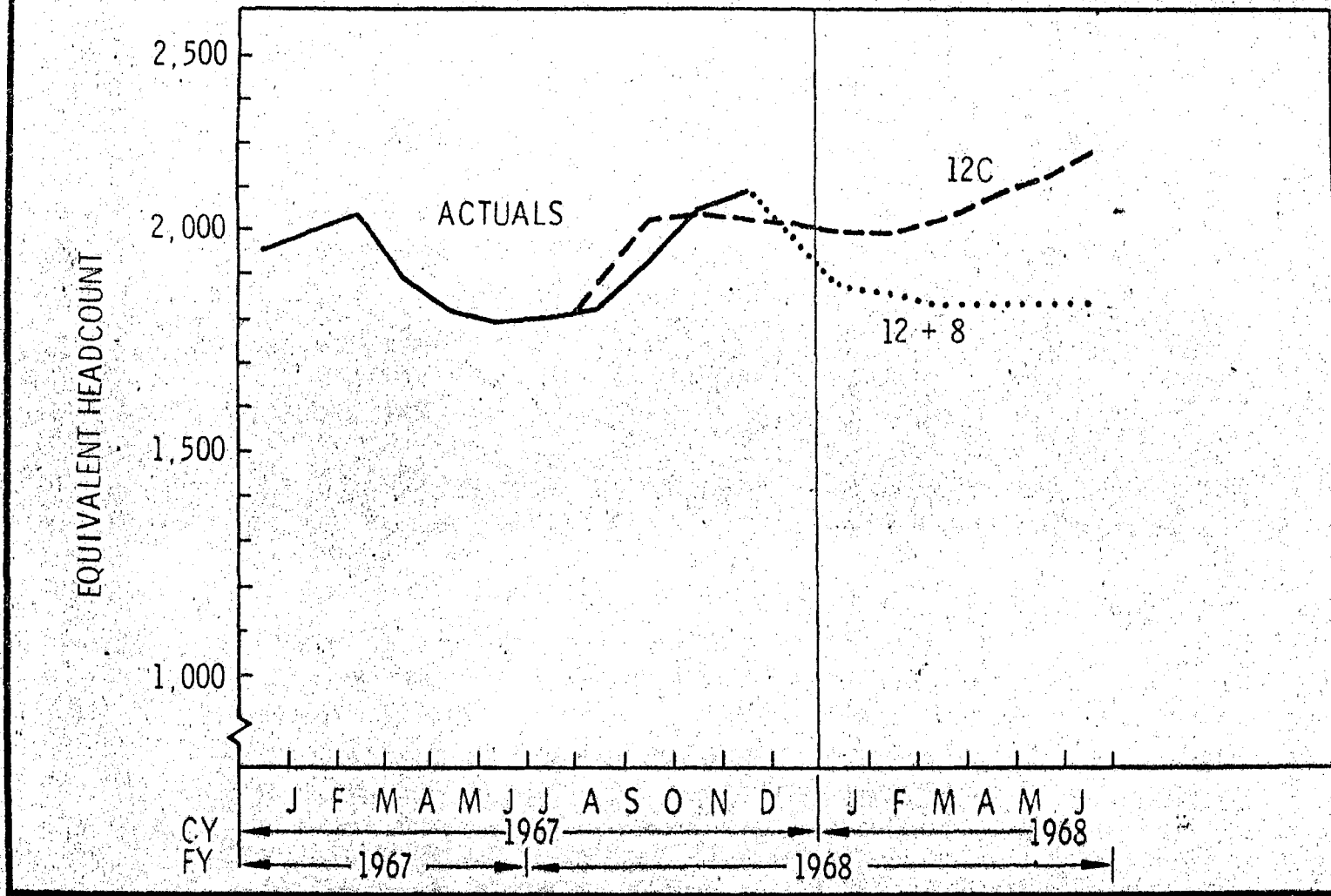
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HANDLE VIA BYEMAN
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MOL
PROGRAM

DIRECT TECHNICAL

AS OF
7 DEC 67



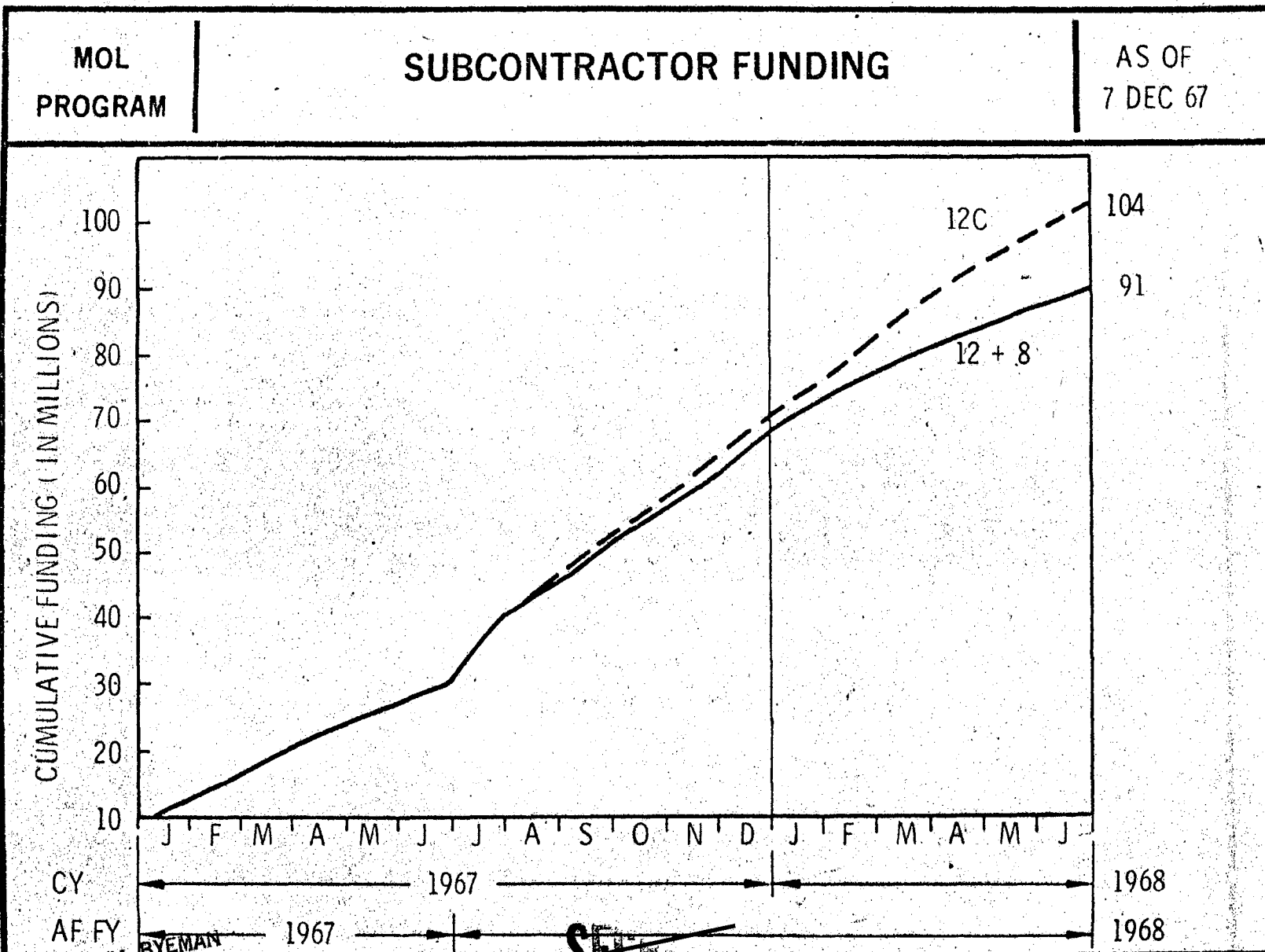
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HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

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HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

V1748-7



HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

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HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

DOUGLAS FUNDING REQUIREMENTS -- 12 + 8 SCHEDULE

12-7-67

	NOA FY 1968	NOA FY 1969
● FUNDING REQUIREMENTS	149	187.5
● MANAGEABLE ADJUSTMENT	-15	+15
● NET FUNDING REQUIREMENT	134	202.5

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