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AVRO ARROW

PROGRESS REPORT

SS 116

This is copy number **32**

Issued to

Date

AVRO ARROW PROGRESS REPORT

JANUARY 1958

AVRO AIRCRAFT LIMITED
MALTON - ONTARIO

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INTRODUCTION

This Progress Report has been prepared to indicate the current position of the ARROW Program at Avro Aircraft Limited and at the major sub-contractors associated with the Program.

Three elements of progress are reported as follows:

- (1) The physical progress in terms of percentage completed at the reporting date
- (2) Manhour expenditures
- (3) Dollar expenditures

The Master Phasing Chart represents the program being reported against. Where necessary for better definition, one bar on the Master Phasing Chart has been expanded into several bars in the Progress Reports.

Dollar expenditure charts show cumulative costs including labor, overhead, direct charges, material, administrative overhead, fees, and sales tax where applicable.

Engineering manhour expenditure charts show the direct cumulative manhours, including sub-contract engineering personnel used directly by Avro in the basic program. However, Engineering hours expended by outside sources of sub-systems, such as R.C.A., Honeywell and Orenda Engines Limited, are not included. Progress charts for some of the related external programs are included. Future reports will contain data of this type as it becomes available for other external programs. Manufacturing manhour expenditure charts include equivalent manhours for sub-contract work.

Amendments to basic information, over the previous issue of the report, are indicated thus ★.

SECTION 1
SUMMARY

SUMMARY

The Summary section includes the Master Phasing Chart, Allocation of Aircraft, Man-hour and Dollar Expenditure Charts for the Engineering, Tooling and Production programs.

The Master Phasing Chart and the Allocation of Aircraft Chart are now raised to Program 5 (Amended). Delivery of ARROW 2 Engineering Orders has been rescheduled to meet revised contractual requirements.

ENGINEERING

On the Master Phasing Chart, Stage 2, RCAF engineering evaluation of ARROW 1 which was previously scheduled for March 1958 is now scheduled for July 1958.

Pre-flight testing of Aircraft 25201 is now scheduled to continue until March 1958. Phase 1 and 2 of Aircraft 25201 flight testing is scheduled for completion by November 1959.

At present a program is being negotiated to modify aircraft 25204 and 25205 into development vehicles for the ASTRA I electronic system. The first flight dates shown in this report for these two aircraft are based on the assumption that they are built to the standard ARROW 1 configuration, incorporating an interim electronic system and with structural modifications for the ASTRA I installation. ASTRA I partial developmental systems for aircraft 25206, 25207 and 25208 are scheduled for November 1958, January 1959 and March 1959 respectively.

Flight development of the weapon pack is scheduled to commence in April 1959.

Aircraft systems trainer is amended to airframe systems trainer in Stage 4 and in the Go Ahead Required section. The RCAF evaluation of the airframe systems trainer study is now scheduled for January and February 1958.

The Allocation of Aircraft chart is raised to Program 5 (Amended) and has been redrawn.

A nominal 5% fee has been included in the actual dollar expenditure figures from April 1st, 1957 to facilitate comparison, pending negotiation of fees subsequent to March 1957.

Although various charts in this report showing physical progress have been amended in line with the re-scheduled first flight dates of the ARROW 1 aircraft the estimates for dollar and manhour expenditures have not been changed.

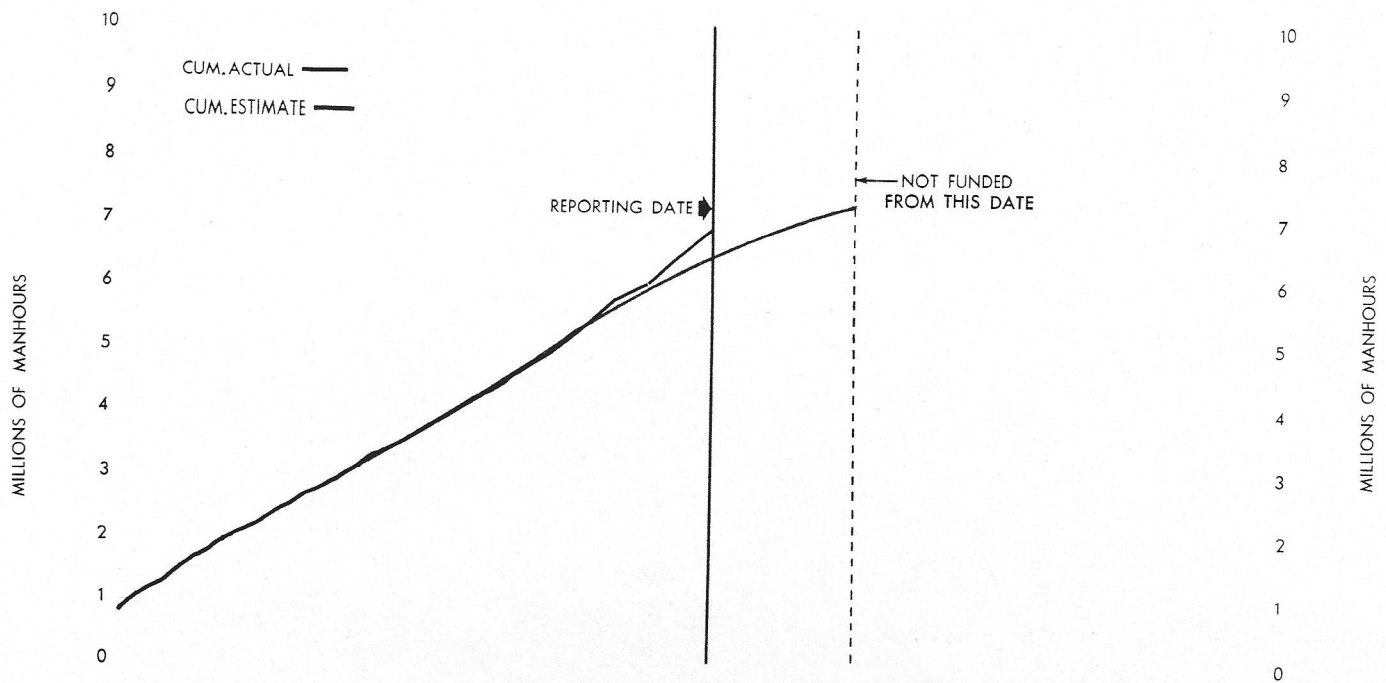
TOOLING

Dollar expenditures for the tooling program are substantially the same as our planned figure.

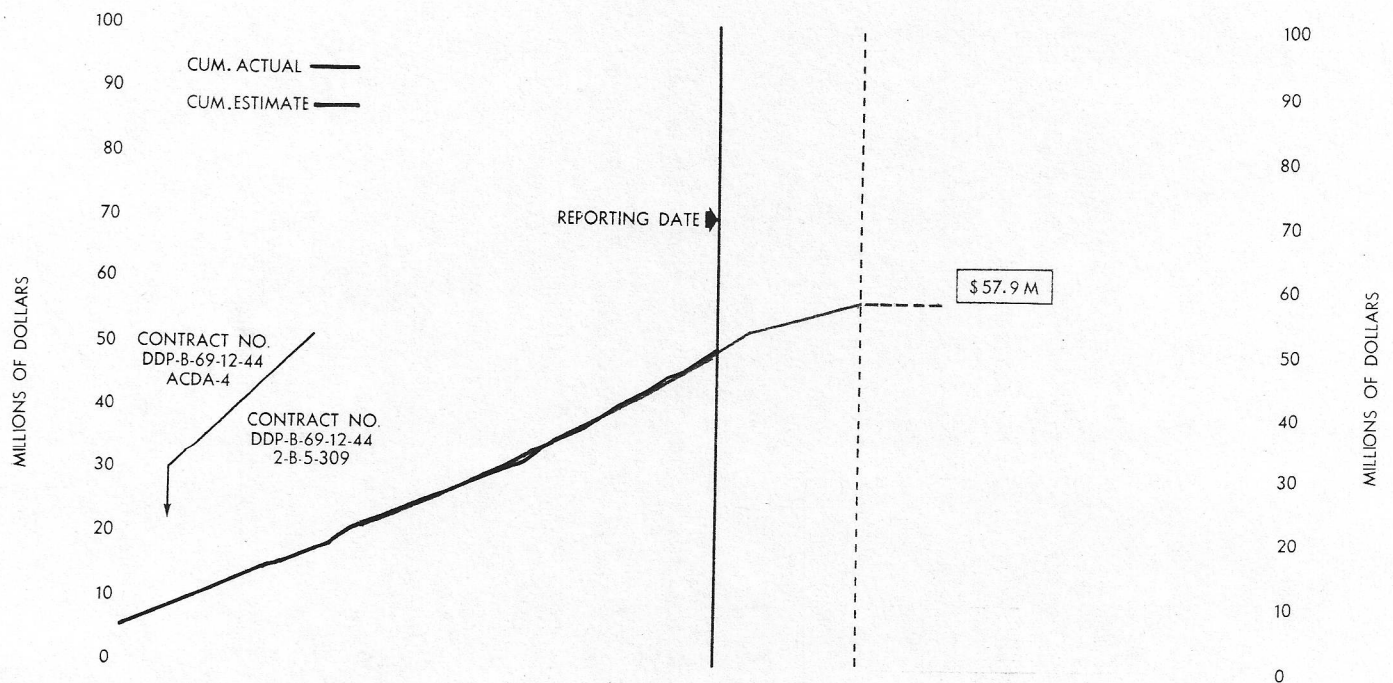
PRODUCTION

Expenditures on the program are proceeding within the planned program budget.

ENGINEERING

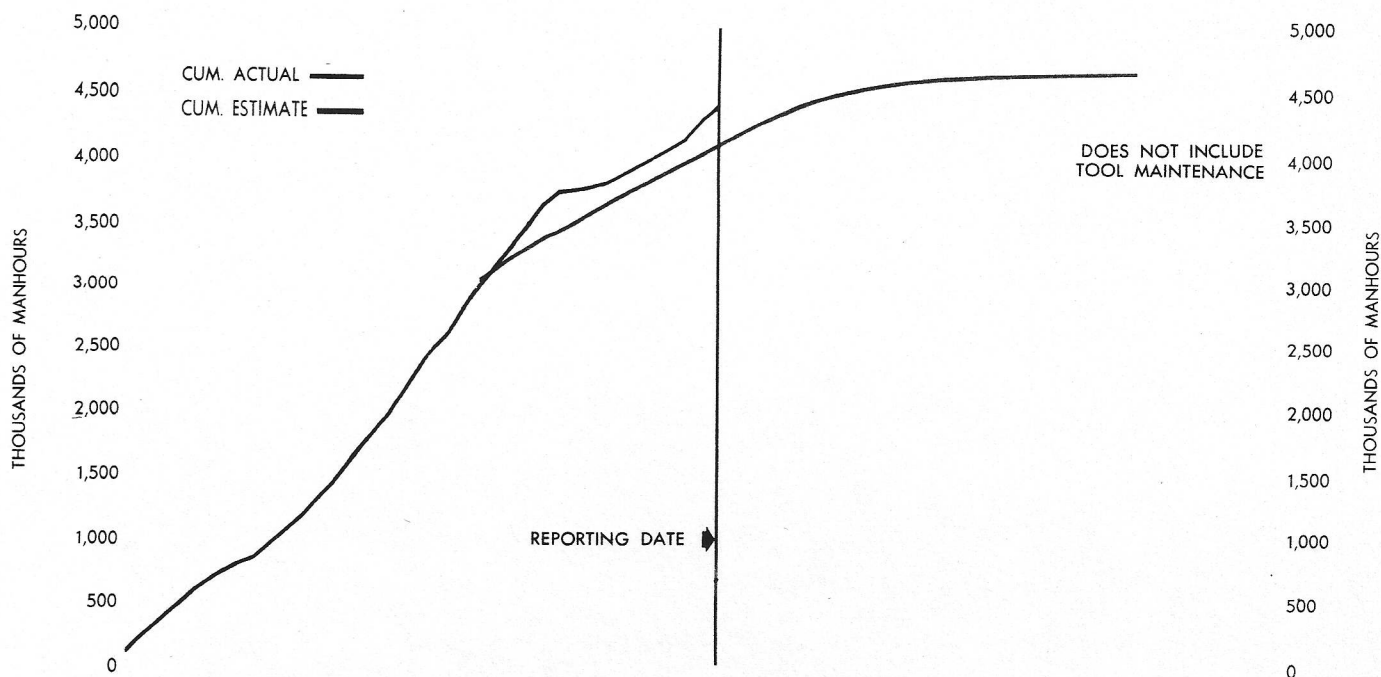


MANHOUR EXPENDITURES

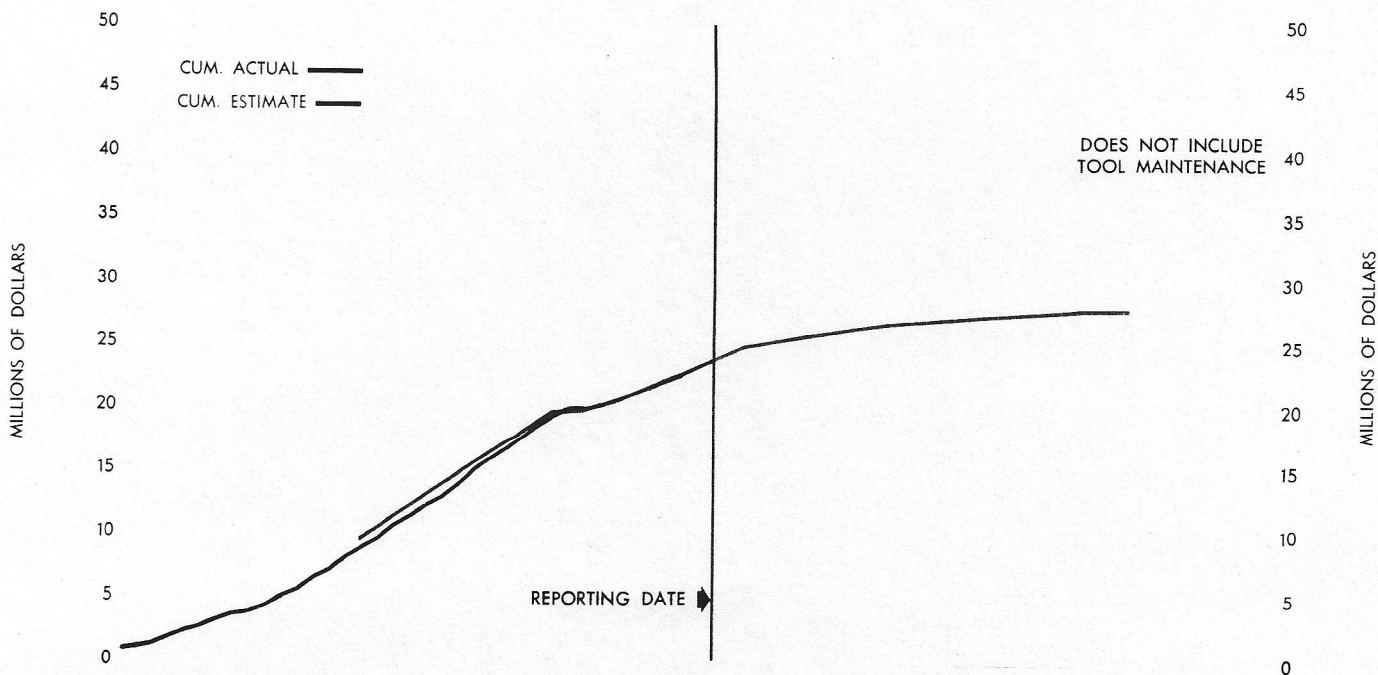


DOLLAR EXPENDITURES

TOOLING



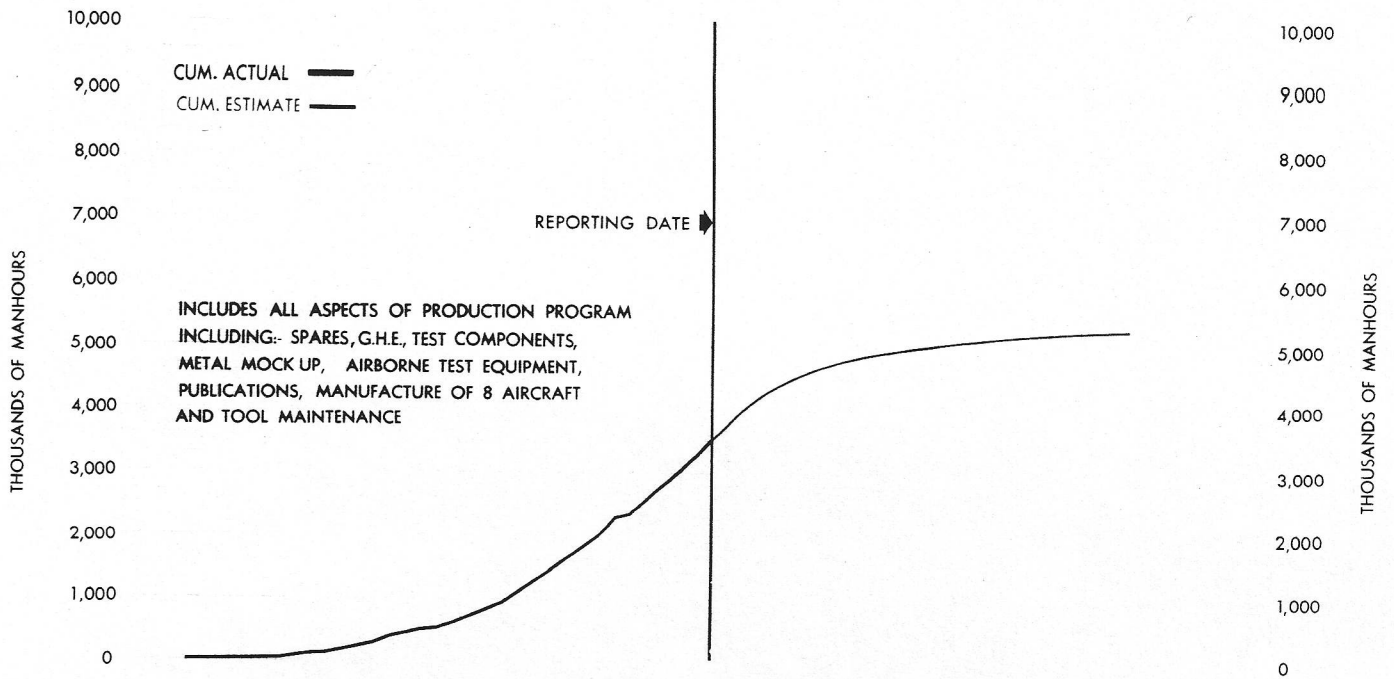
MANHOOR EXPENDITURES



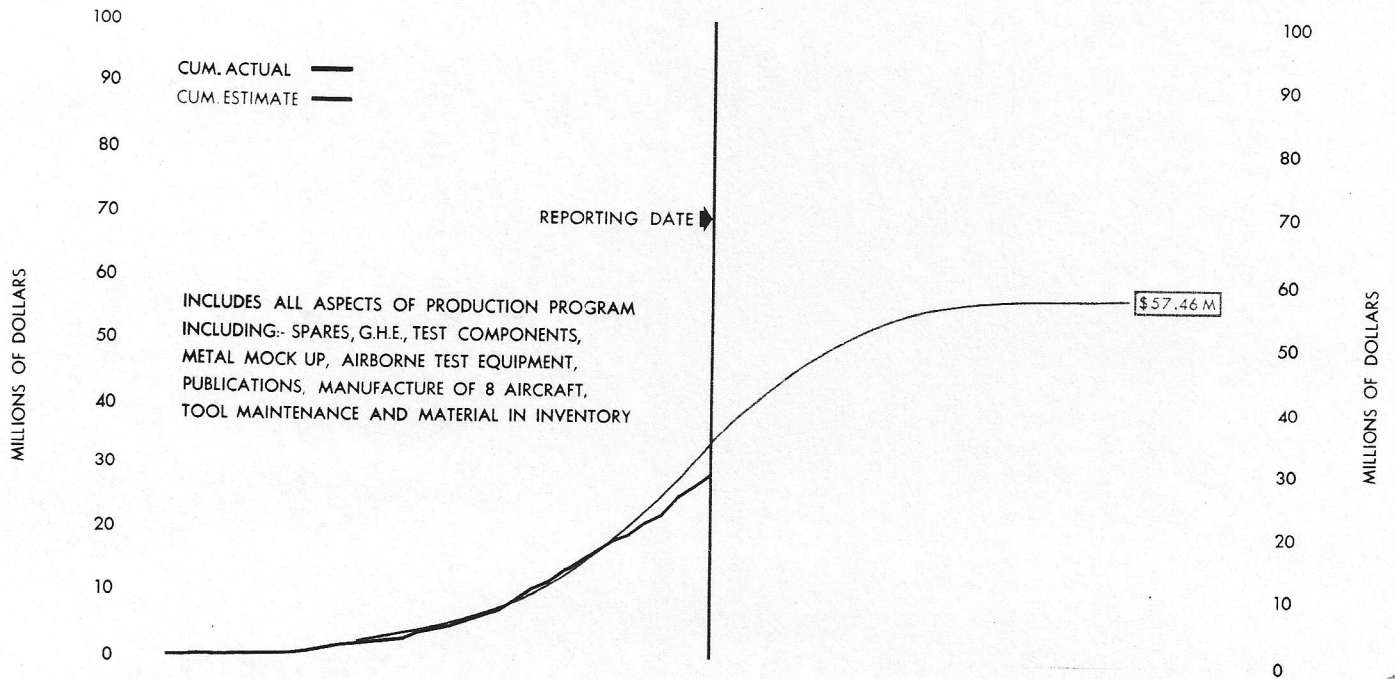
105-MPR64-7

DOLLAR EXPENDITURES

PRODUCTION



MANHOURLY EXPENDITURES

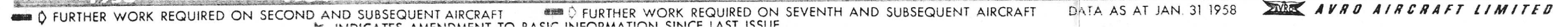


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DOLLAR EXPENDITURES

ARROW

SECRET



SECTION 2
ENGINEERING - DESIGN AND TECHNICAL

ENGINEERING - DESIGN AND TECHNICAL

Changes to the engine installation and gear-boxes on the ARROW 2 mockup as a result of the September 1957 mockup evaluation are nearing completion, and the RCAF evaluation of these changes is scheduled for February 17th, 1958. Finalization of the ARROW 2 Model Specification is dependent upon receipt of the RCAF comments on the draft specification.

On the Wind Tunnel and Free Flight Model Tests chart the reference to twelve wind tunnel and eleven free flight model tests has been clarified. A further test period is scheduled for the 1/10 low speed flutter model, and a manufacturing period and test period have been deleted from the section on the 1/40 high speed flutter model tests.

The current new parts estimates for twelve components on the ARROW 2 Engineering Parts

Release Schedule have been revised. Seven of these components are now behind schedule. The schedule for the ARROW 2 outer wing has been deleted as there are no major changes from the ARROW 1 configuration.

There has been no significant increase in the rate of expenditure of dollars and manhours shown in this section since the November report.

On the Air Conditioning System chart the note "Limited Flight Approved" has been added opposite the qualification section for the ARROW 1 turbine and fan. On the same chart the black line showing delivery of the ARROW 1 turbine and fan has been amended from 4 to 3 sets. The fourth and fifth sets have been returned to AiResearch Manufacturing Company for rework to the latest configuration.

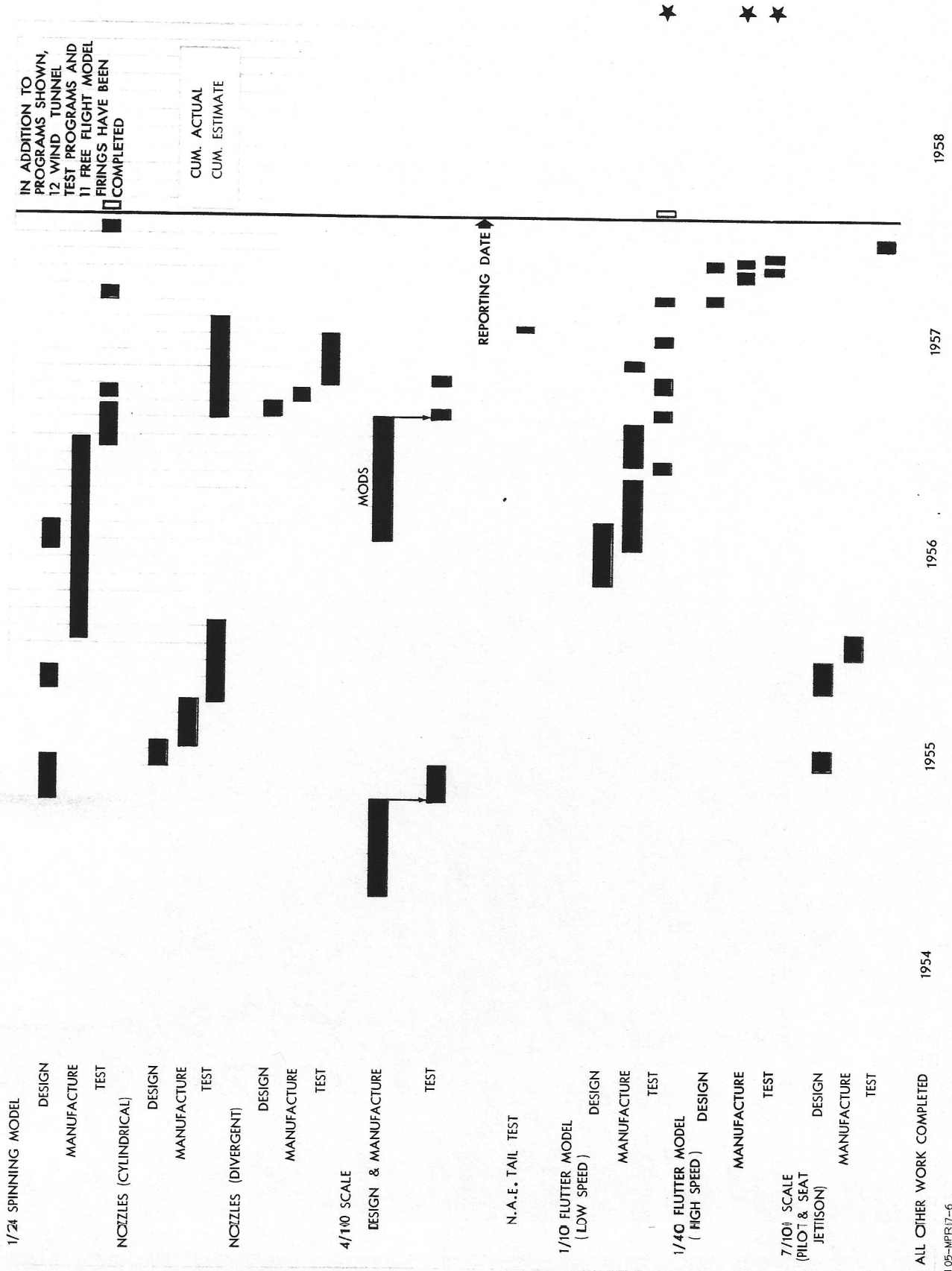
SECRET



MOCKUPS

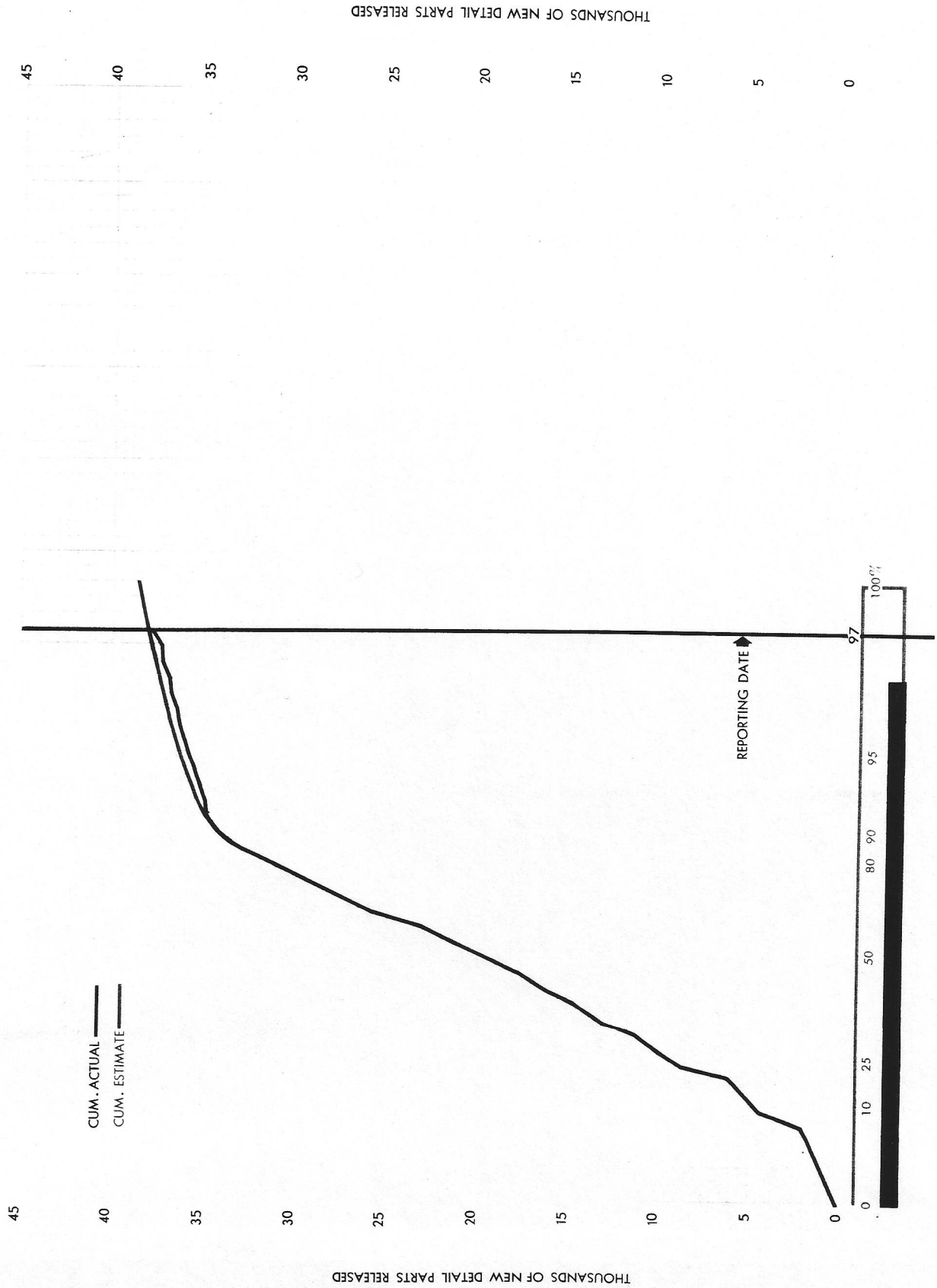


WIND TUNNEL AND FREE FLIGHT MODEL TESTS



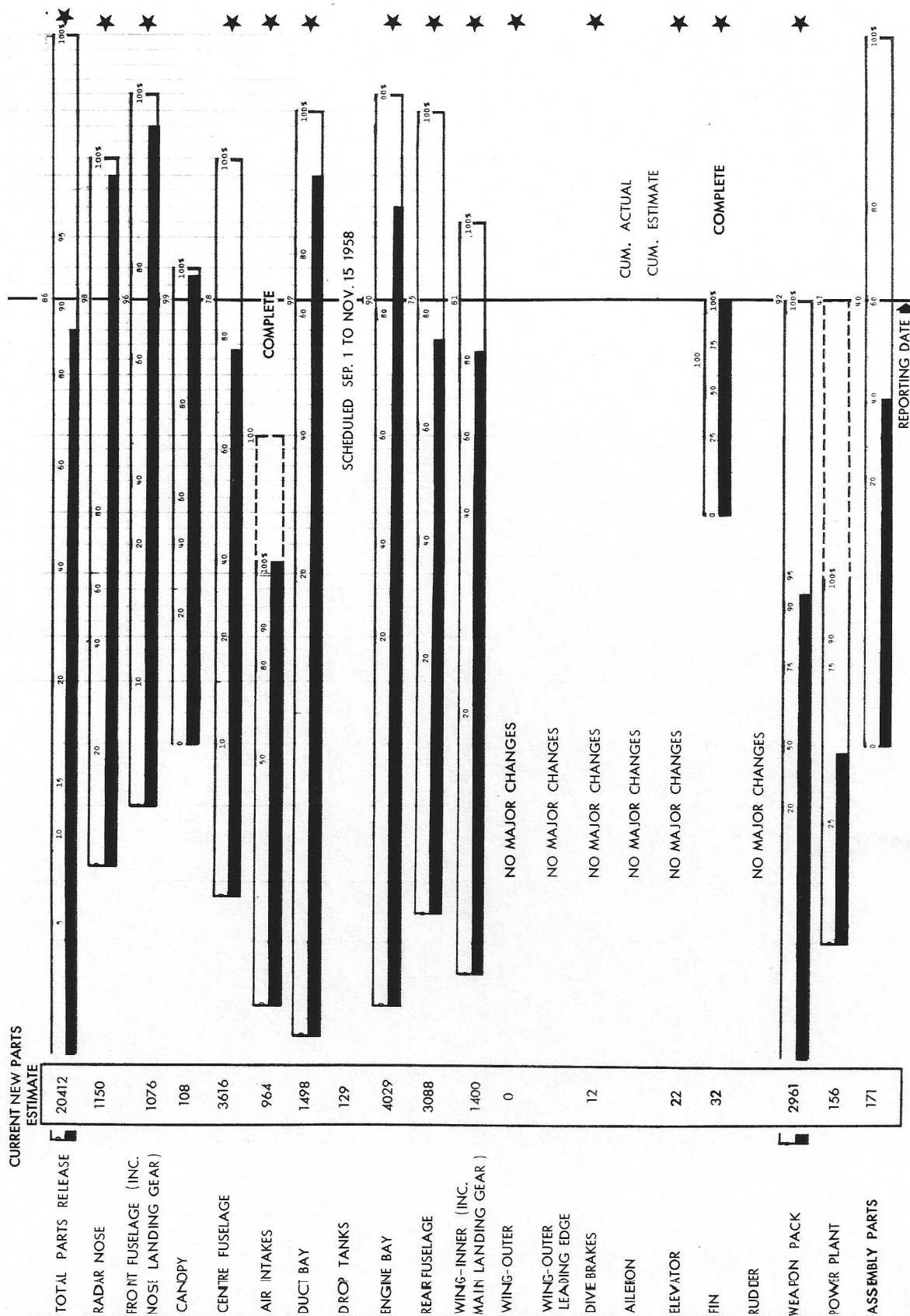
AVRO ARROW PROGRESS REPORT

ENGINEERING PARTS RELEASE--ARROW 1 AIRCRAFT NOS. 25201 TO 25205

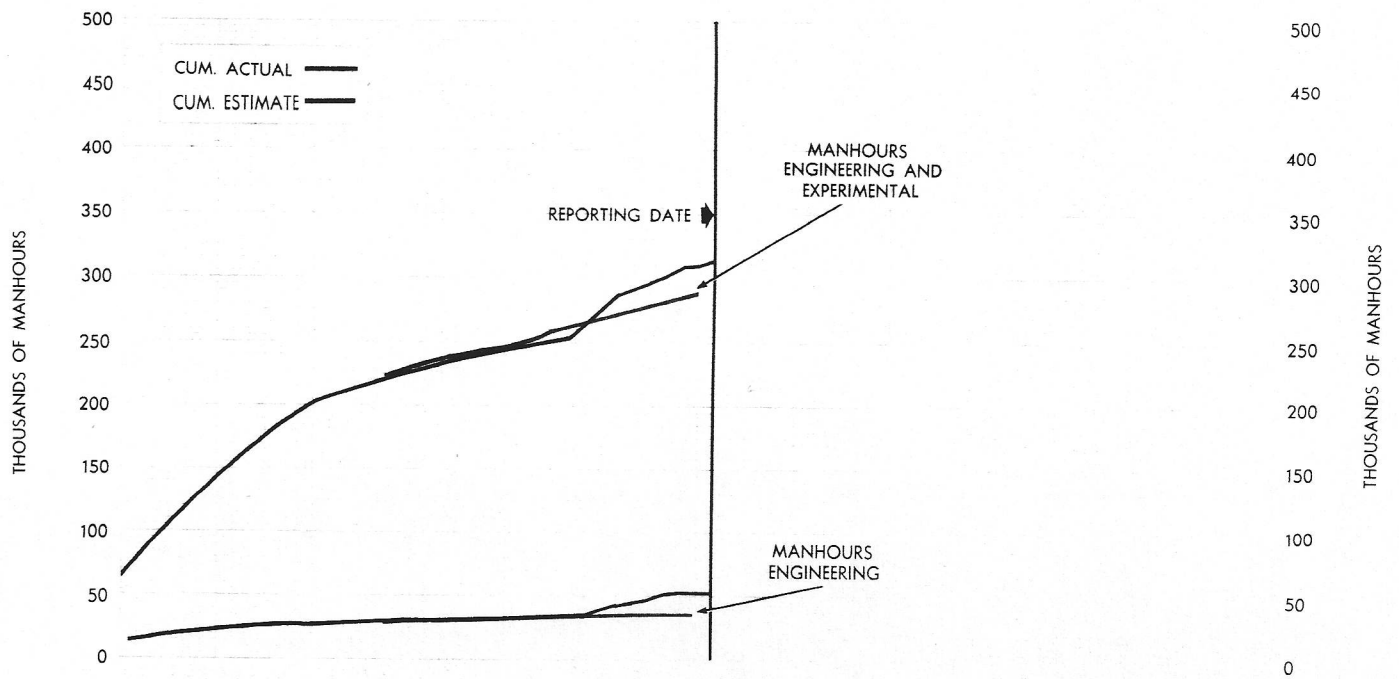


AVRO ARROW PROGRESS REPORT

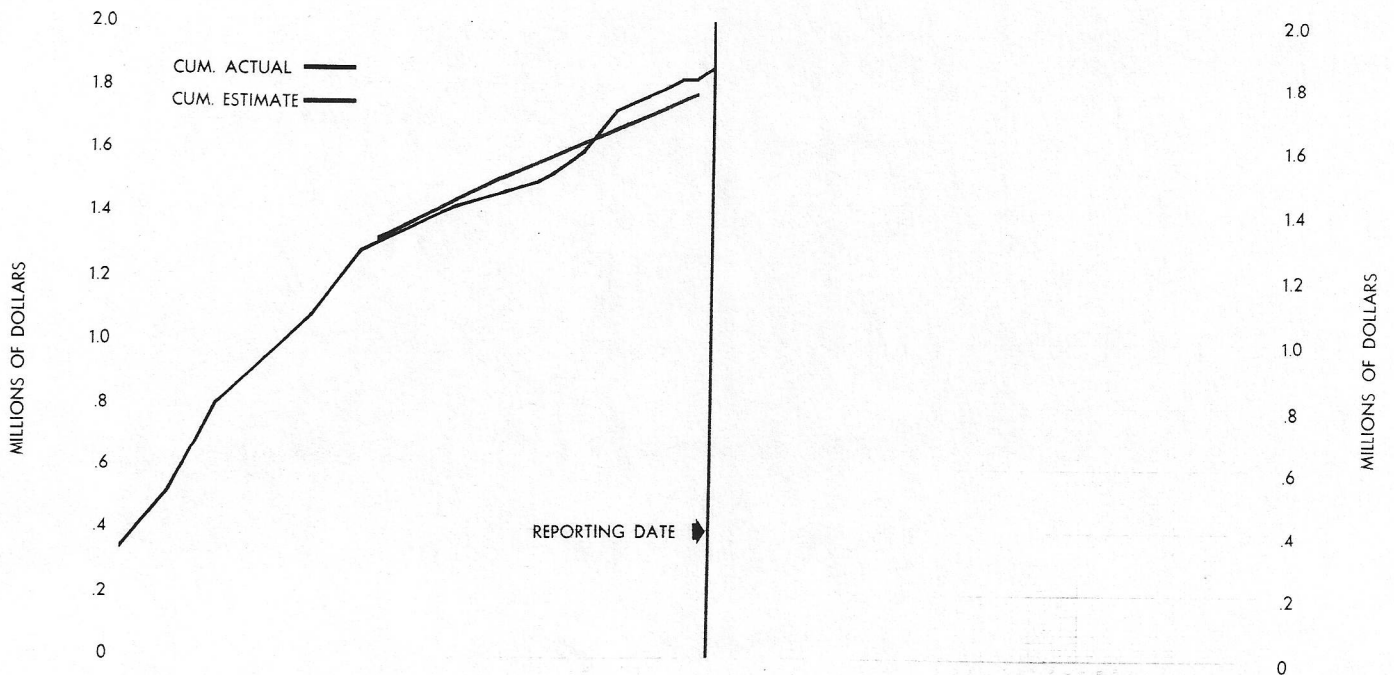
ENGINEERING PARTS RELEASE SCHEDULE ARROW 2



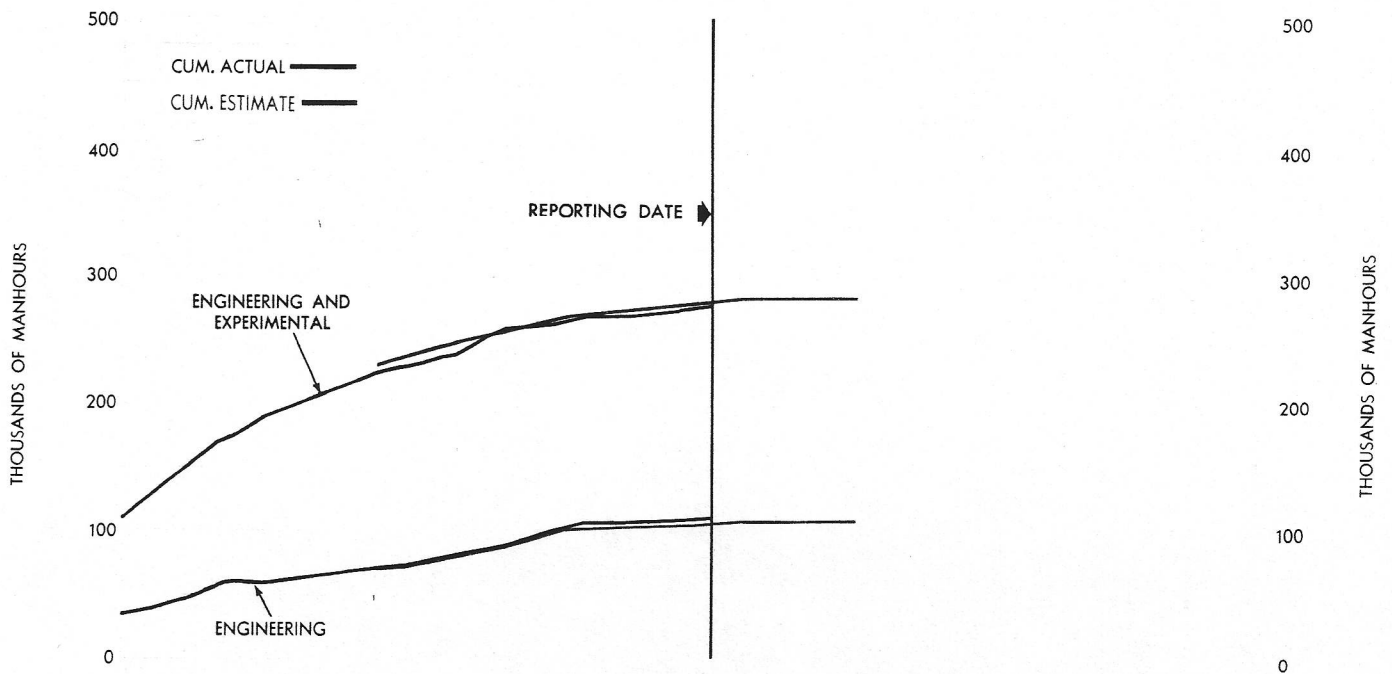
ENGINEERING MOCKUPS



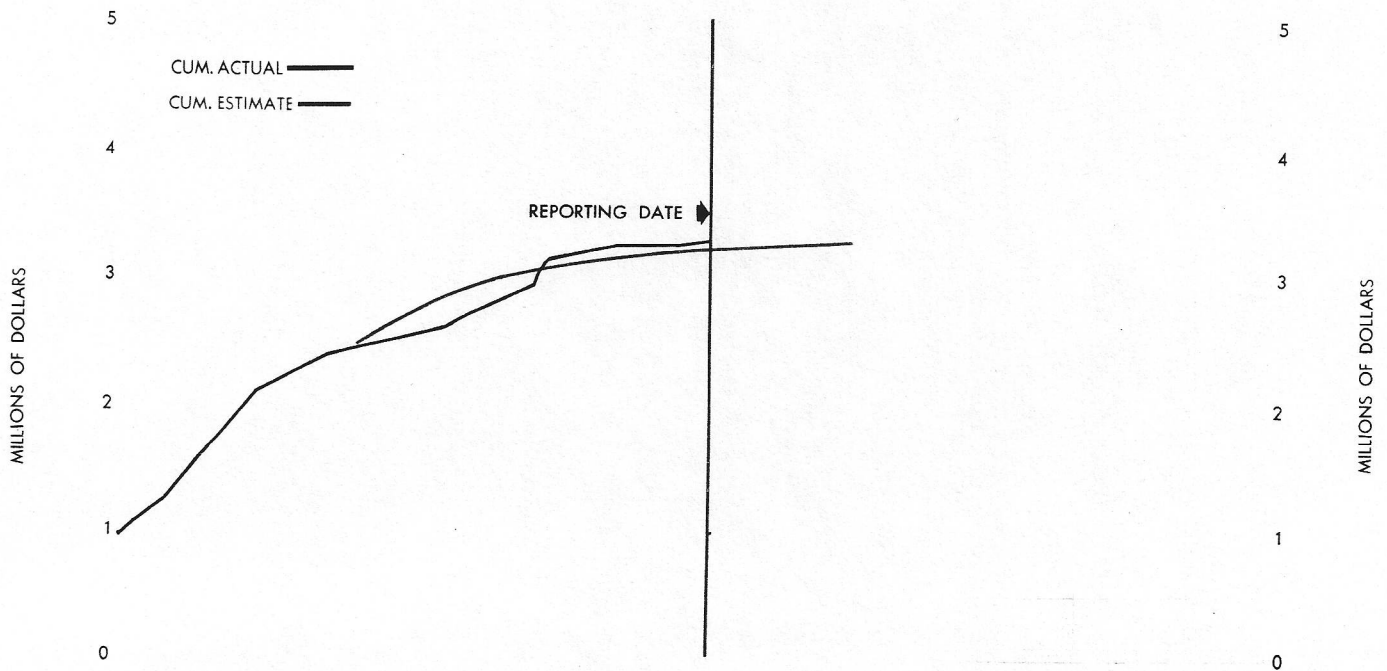
MANHOUR EXPENDITURES



WIND TUNNEL AND FREE FLIGHT MODEL TESTS



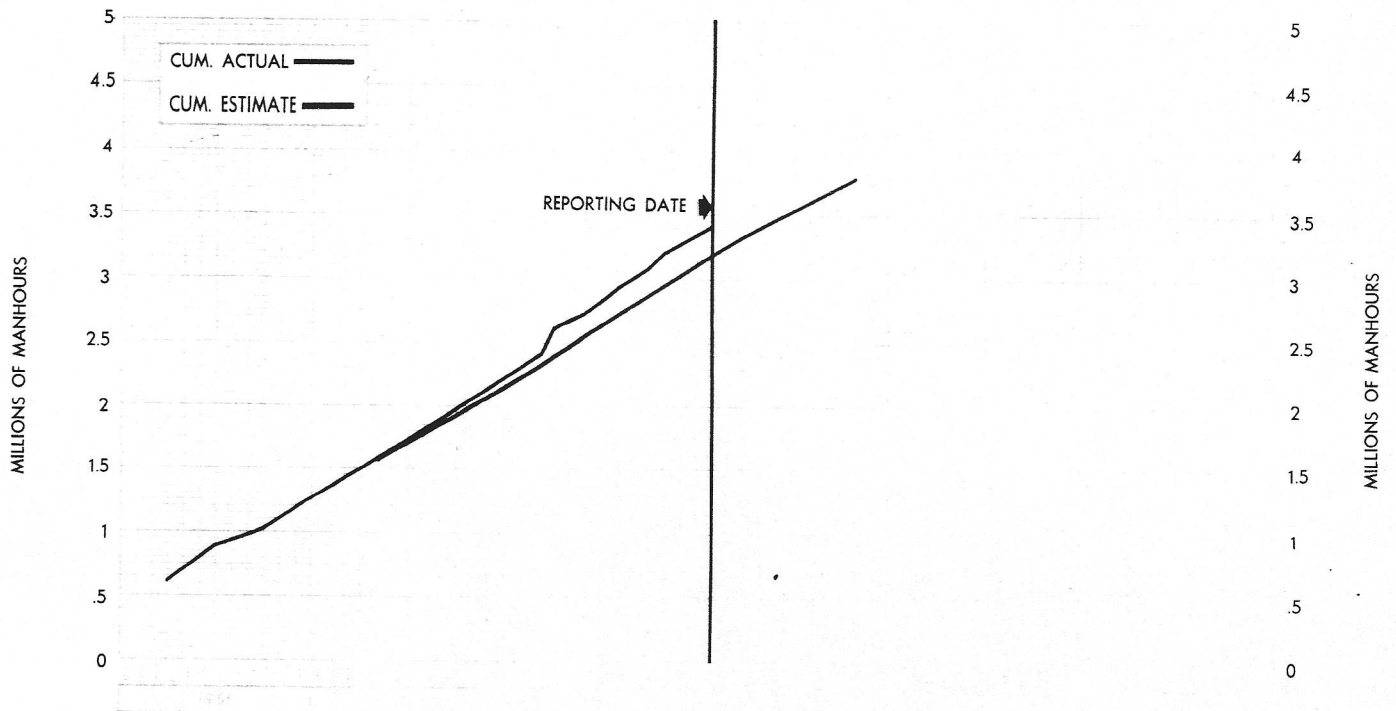
MANHOUR EXPENDITURES



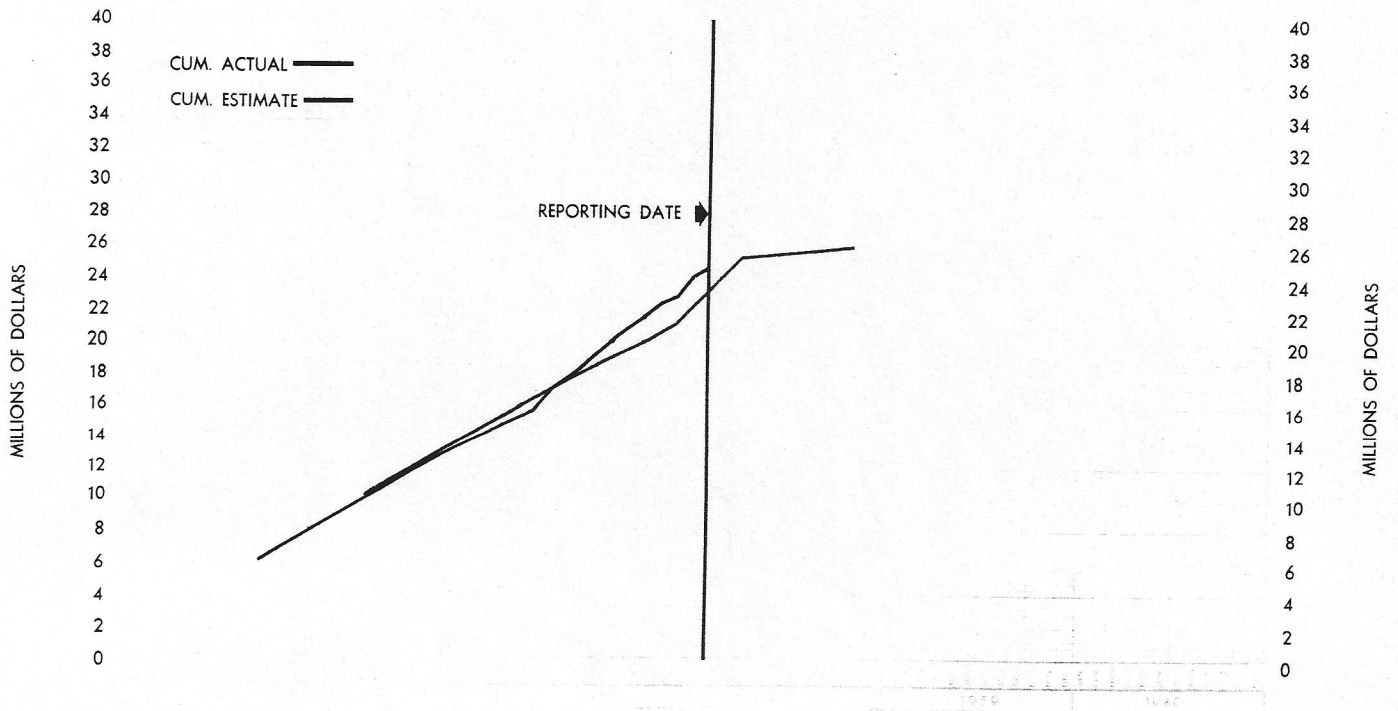
DOLLAR EXPENDITURES



AIRCRAFT DESIGN-EXCLUDING GROUND SUPPORT EQUIPMENT, MOCKUPS, MODELS AND A.S.T.



MANHOUR EXPENDITURES

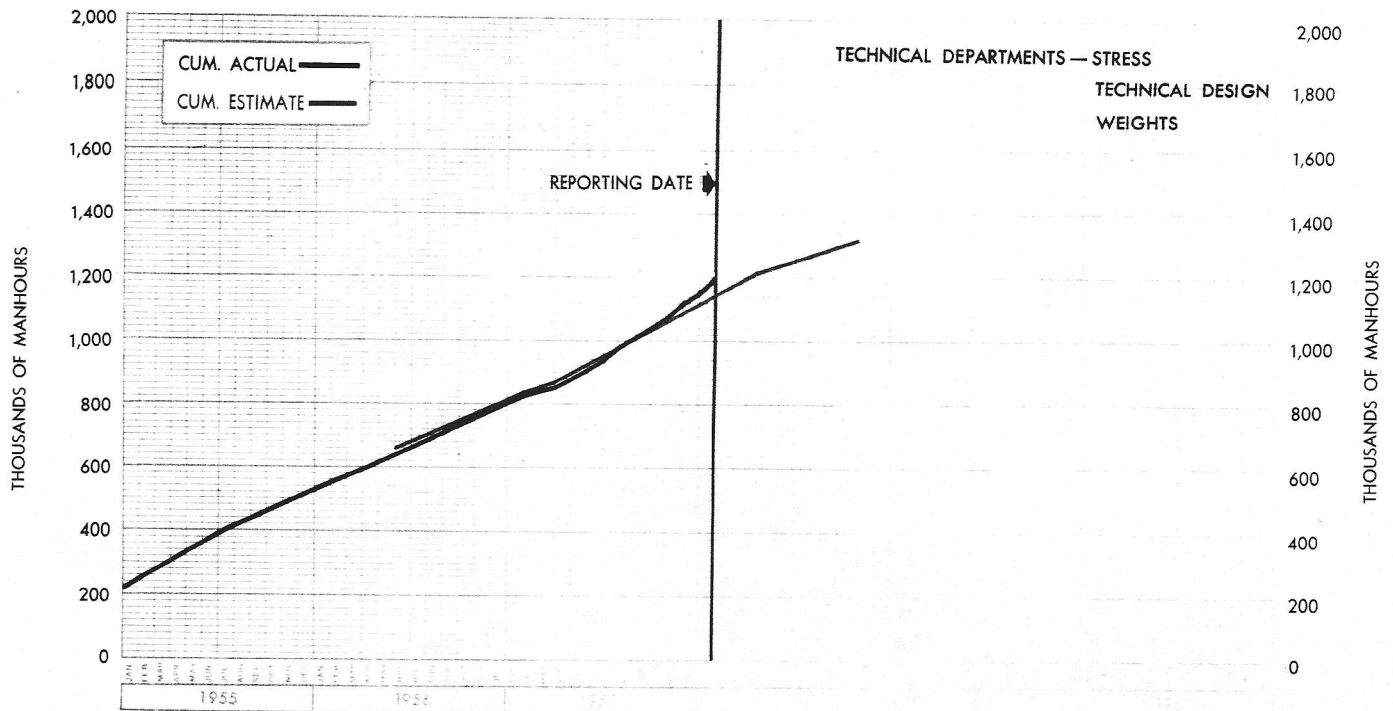


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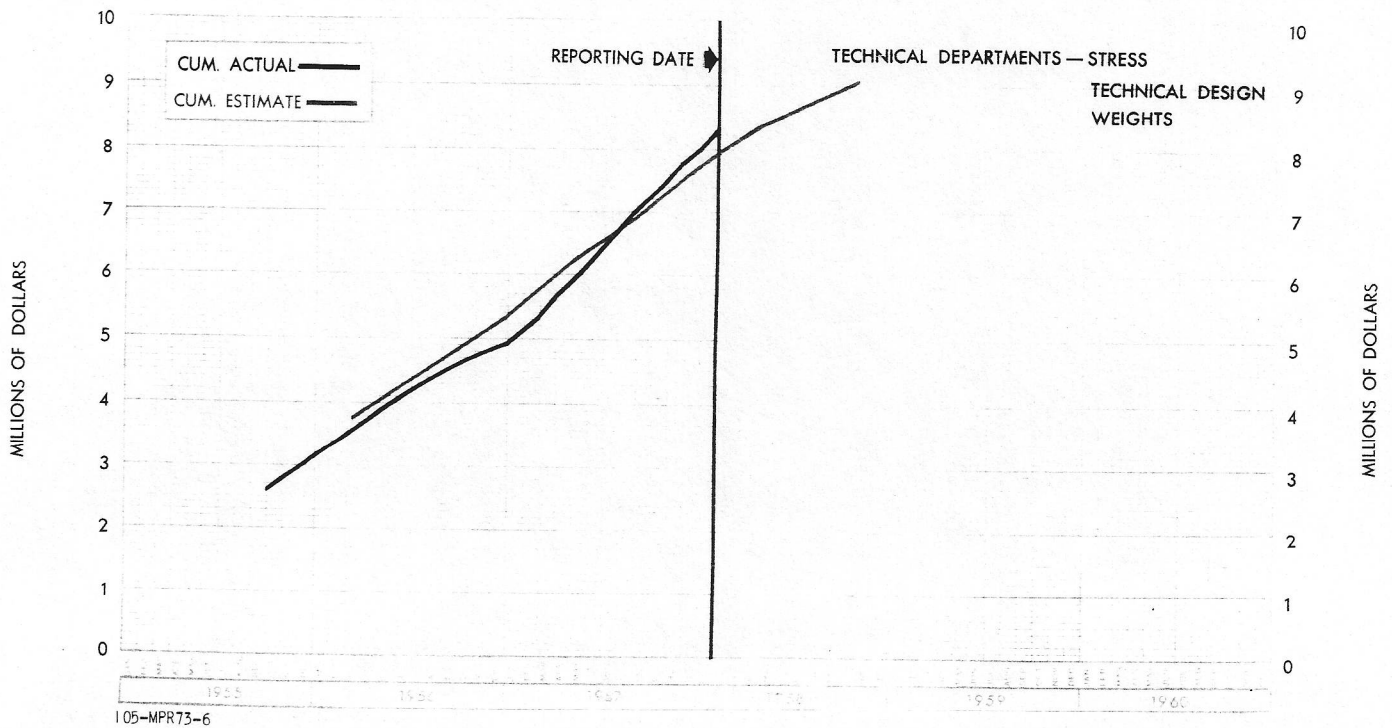
DOLLAR EXPENDITURES



TECHNICAL DEPARTMENTS

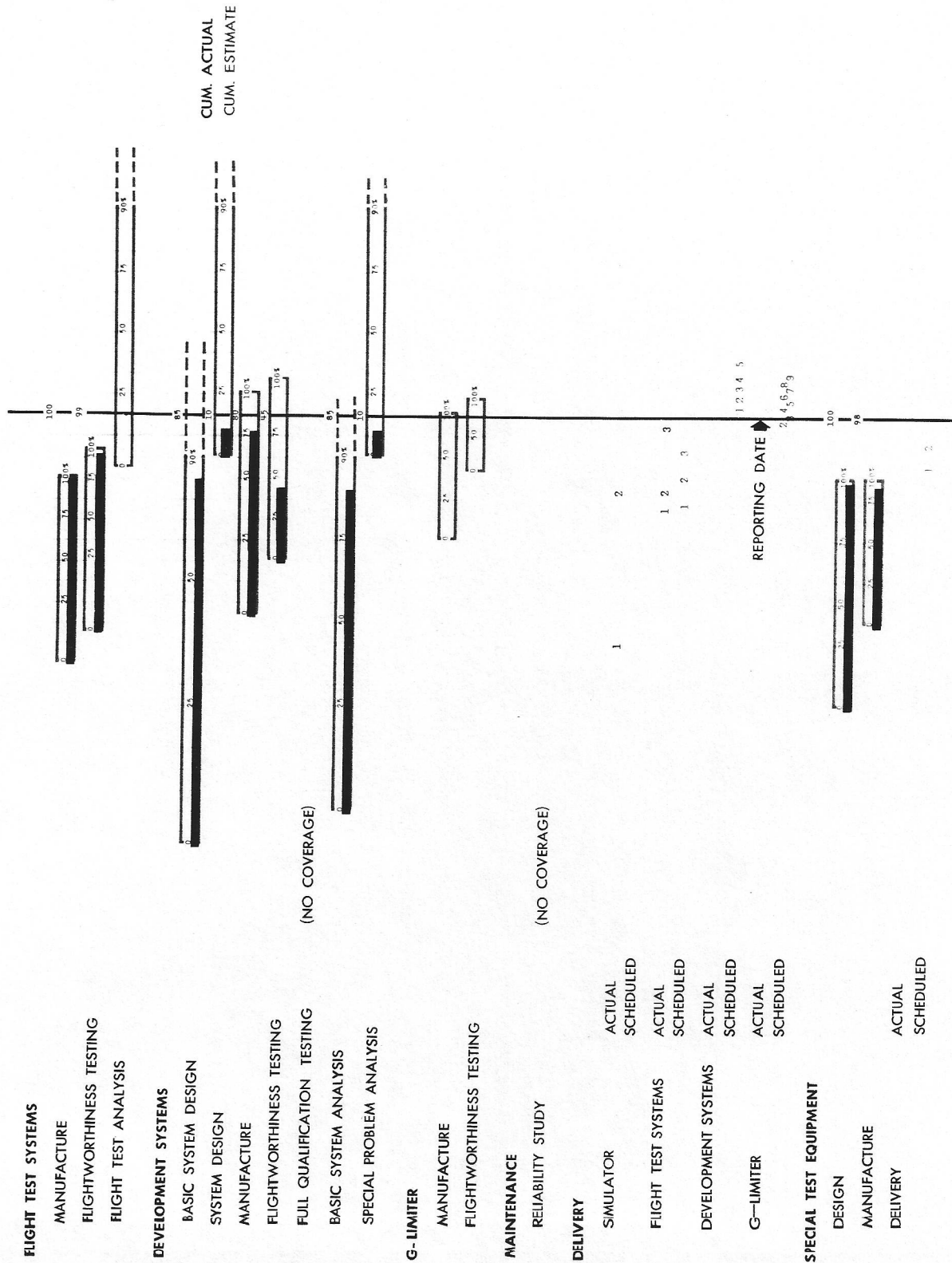


MANHOUR EXPENDITURES



DOLLAR EXPENDITURES

MINNEAPOLIS-HONEYWELL (MH-64) DAMPING SYSTEM





AIR CONDITIONING SYSTEM

TURBINE AND FAN

DESIGN	ARROW 1	COMPLETE	0 25 50 75 100%	0 25 50 75 100%	LIMITED FLIGHT APPROVED	0 25 50 75 100%	1 2 3	★
	ARROW 2							
QUALIFICATION	ARROW 1		0 25 50 75 100%	0 25 50 75 100%			1 2 3	★
	ARROW 2							
DELIVERY	ARROW 1		0 25 50 75 100%	0 25 50 75 100%			1 2 3	
	ARROW 2							

CUM. ACTUAL
CUM. ESTIMATE 1-2-

HEAT EXCHANGER

DESIGN	ARROW 1	COMPLETE	0 25 50 75 100%	0 25 50 75 100%	LIMITED FLIGHT APPROVED	0 25 50 75 100%	1 2 3	
	ARROW 2							
QUALIFICATION	ARROW 1		0 25 50 75 100%	0 25 50 75 100%			1 2 3	
	ARROW 2							
DELIVERY	ARROW 1		0 25 50 75 100%	0 25 50 75 100%			1 2 3	
	ARROW 2							

EVAPORATOR AND WATER TANK

DESIGN	ARROW 1	COMPLETE	0 25 50 75 100%	0 25 50 75 100%	LIMITED FLIGHT APPROVED	0 25 50 75 100%	1 2 3	
	ARROW 2							
QUALIFICATION	ARROW 1		0 25 50 75 100%	0 25 50 75 100%			1 2 3	
	ARROW 2							
DELIVERY	ARROW 1		0 25 50 75 100%	0 25 50 75 100%			1 2 3	
	ARROW 2							

REPORTING DATE

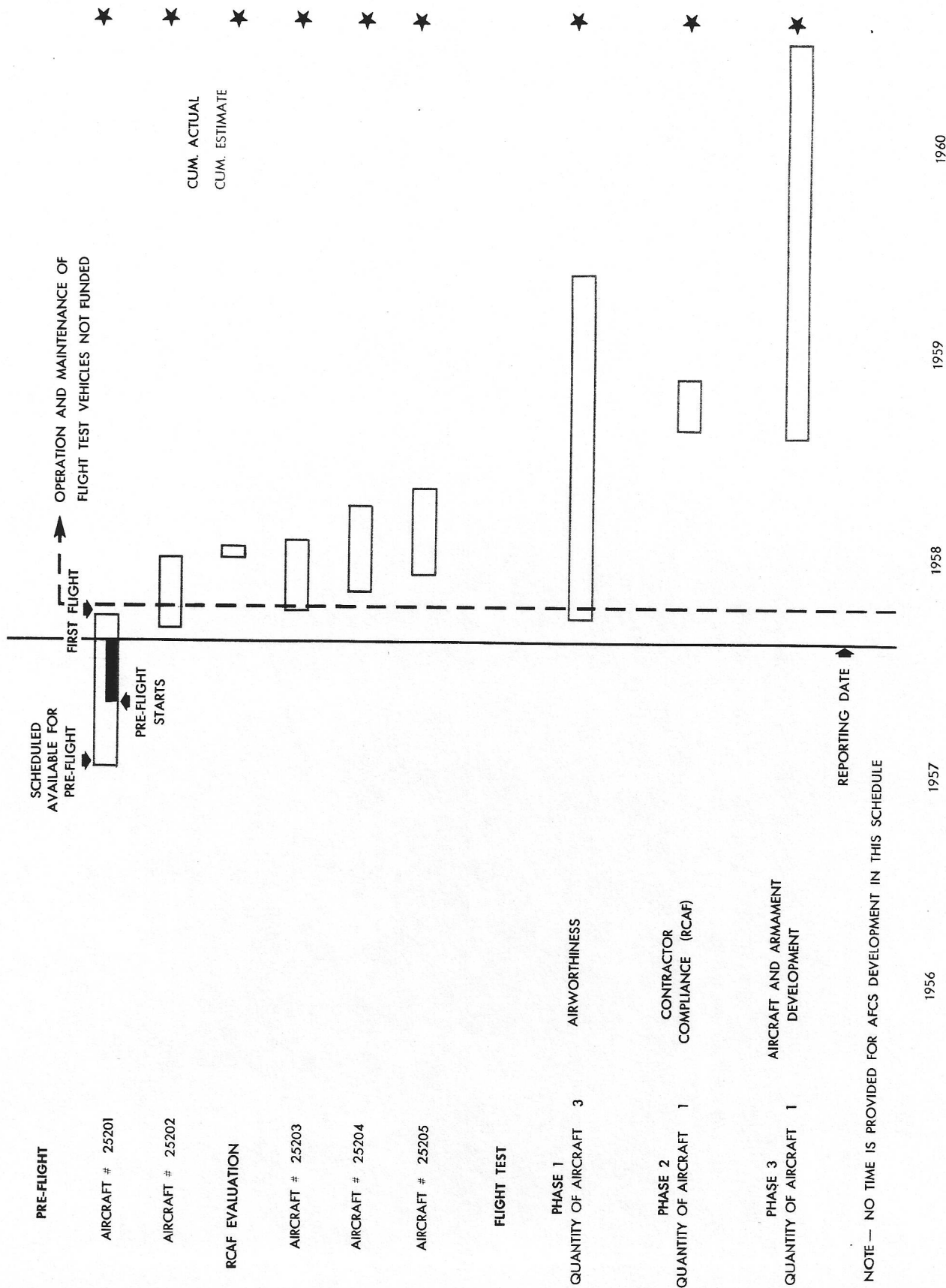
SECTION 3
ENGINEERING - TEST PROGRAM

ENGINEERING - TEST PROGRAM

Consequent upon the re-scheduling of the first flight dates for aircraft 25201 to 25205 it has been necessary to re-schedule the Flight Test Program for these aircraft. The three charts showing the Flight Test Program for all five ARROW 1 aircraft in general, for aircraft 25201 in particular, and the cumulative flying hours to December 31, 1958 for aircraft 25201, 25202 and 25203 have been amended. The flight test program for ARROW 2 aircraft has also been re-scheduled.

The bar showing progress on the ARROW 1 fuel system tests has been extended because testing additional to that originally scheduled is required. It is now estimated that testing of the Sparrow 2D missile pack, reported on the ARROW 2 structure and systems tests chart, will be completed at the end of April 1959. A schedule for ARROW 2 fuel system tests has been introduced on the ARROW 2 chart.

FLIGHT TEST PROGRAM ARROW 1



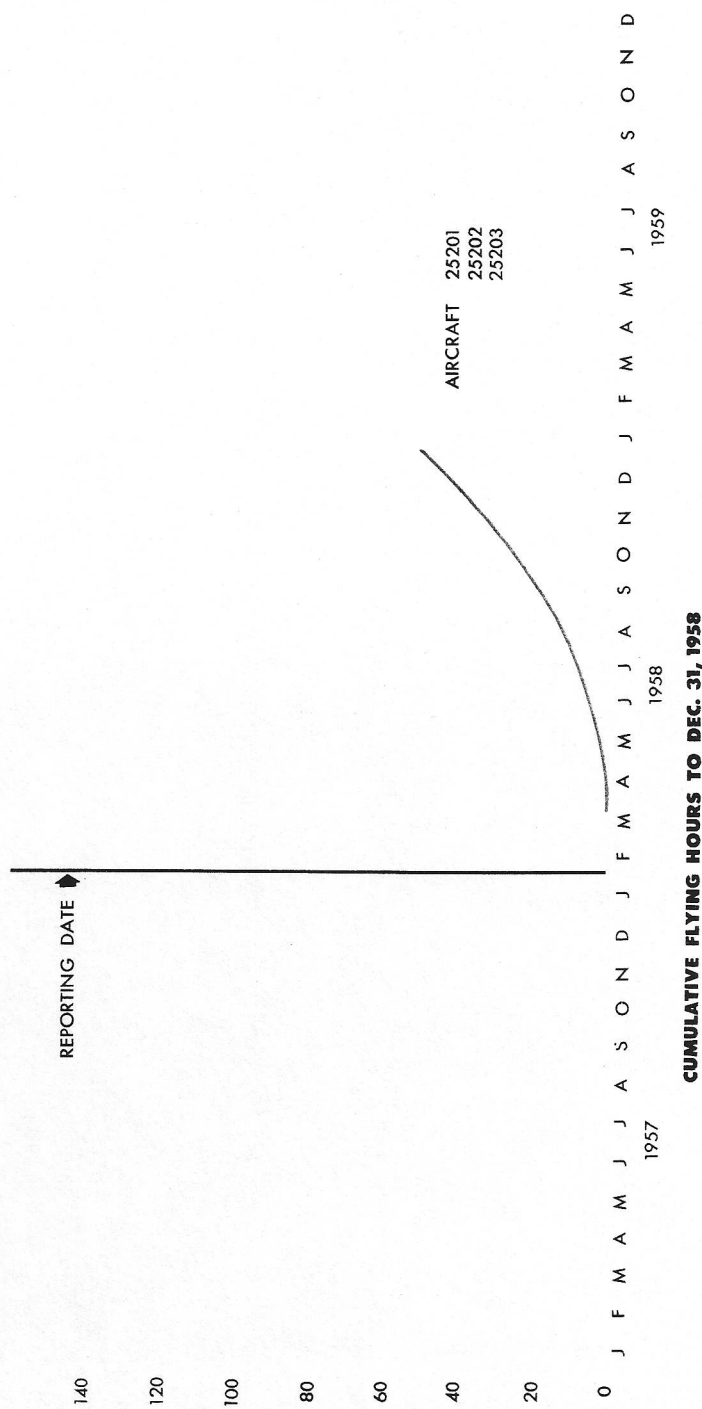
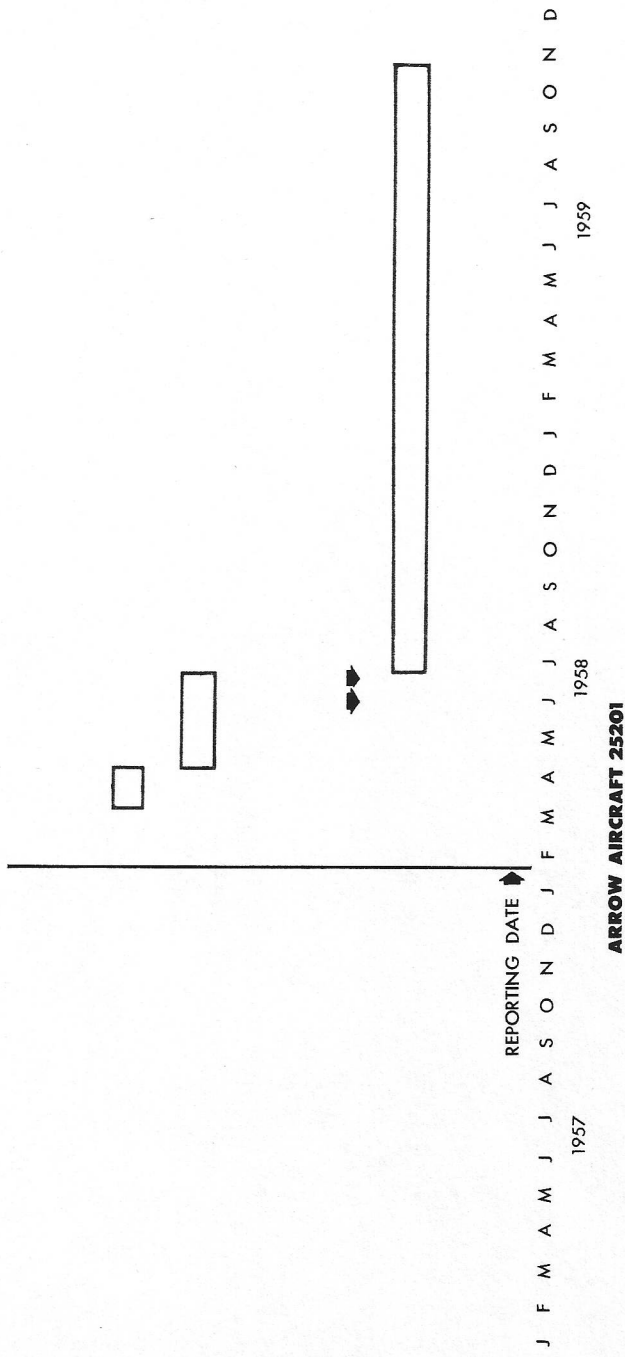


FLIGHT TEST PROGRAM ARROW 1

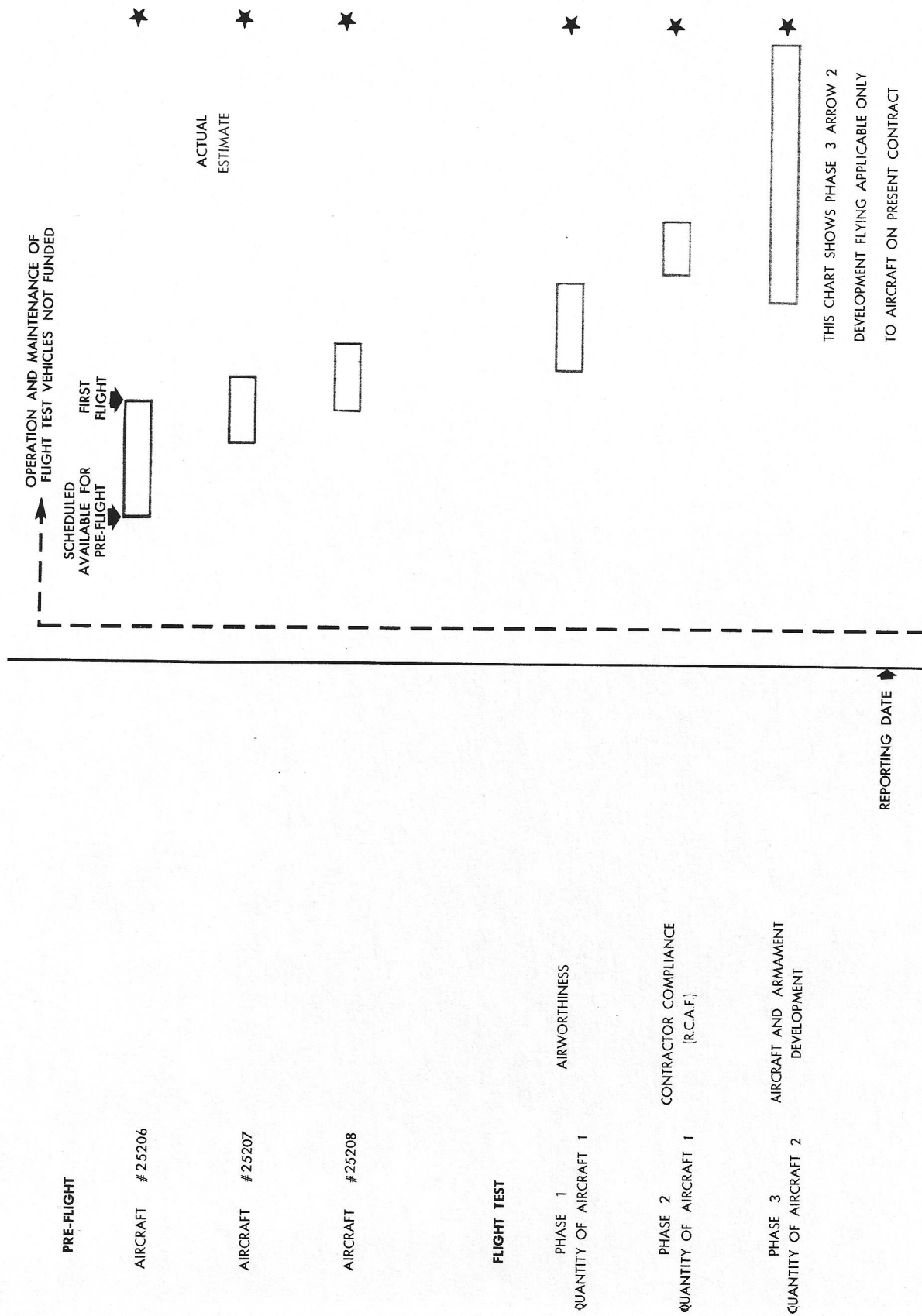
FIRST FLIGHT AND PILOT
FAMILIARIZATION
INSTRUMENTATION CHECKOUT
AND AIRCRAFT COMPLETION

PHASE 1
PART 1 SHAKEDOWN FLIGHTS

PART 2 ENGINEERING TESTING

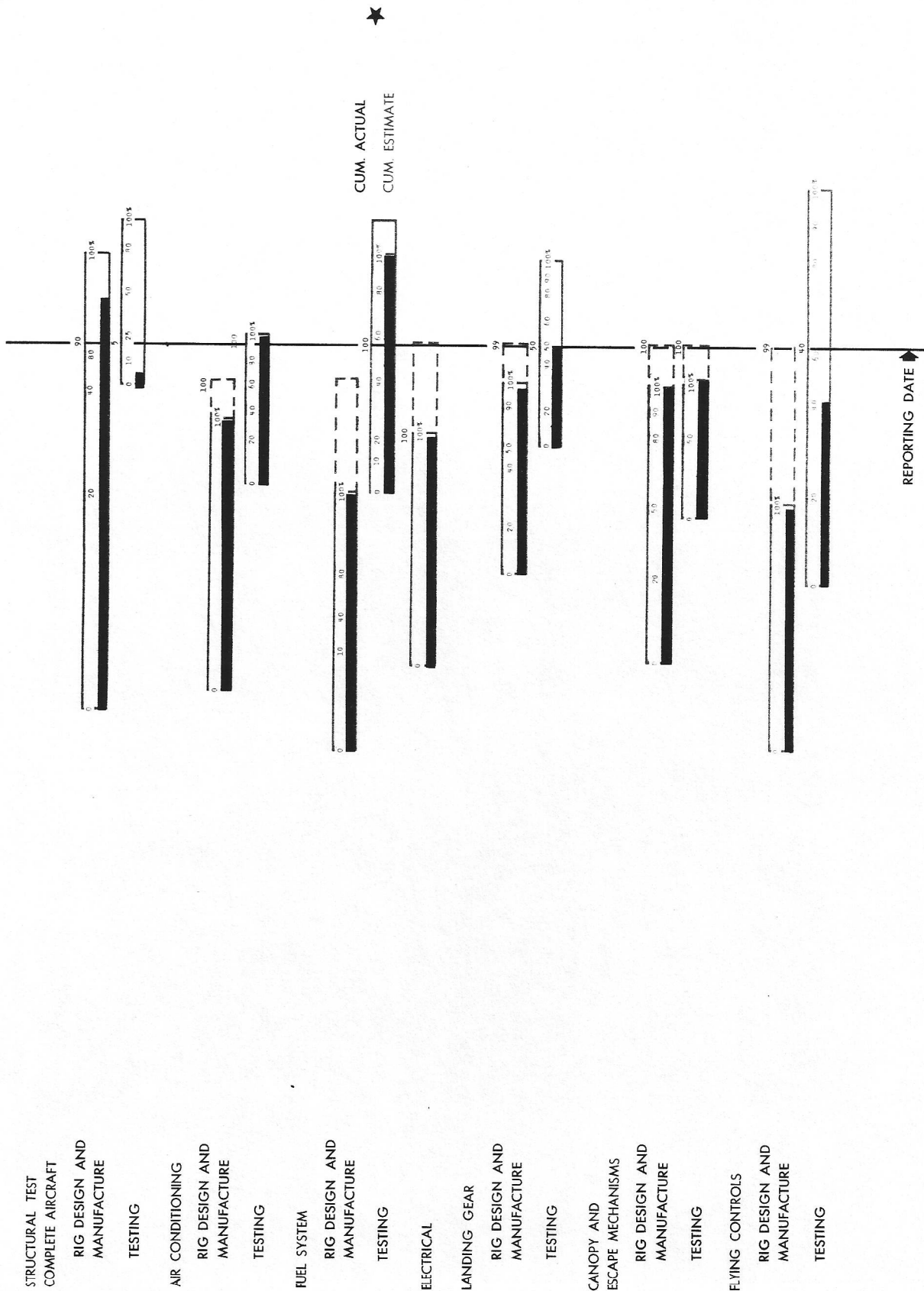


FLIGHT TEST PROGRAM ARROW 2





MAJOR TESTS OF STRUCTURE AND SYSTEMS - ARROW 1



MAJOR TESTS OF STRUCTURE AND SYSTEMS — ARROW 2

SPARROW 2D MISSILE
PACK DEVELOPMENT

RIG DESIGN AND
MANUFACTURE

TESTING

AIR CONDITIONING

RIG DESIGN AND
MANUFACTURE

TESTING

ELECTRICAL

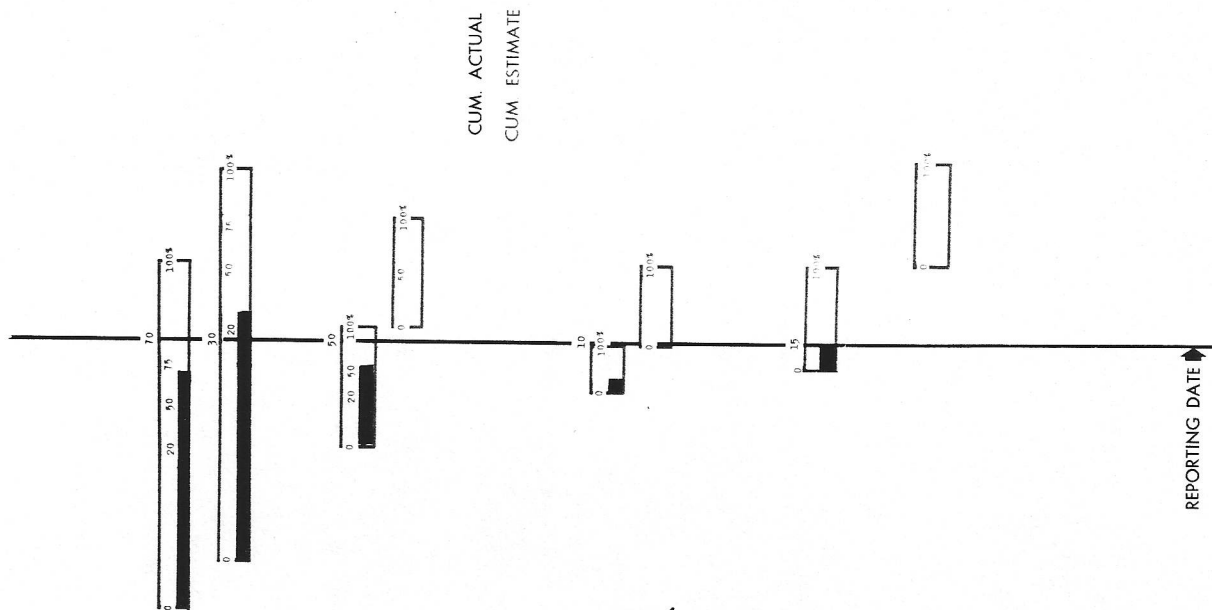
RIG DESIGN AND
MANUFACTURE

TESTING

FUEL SYSTEM

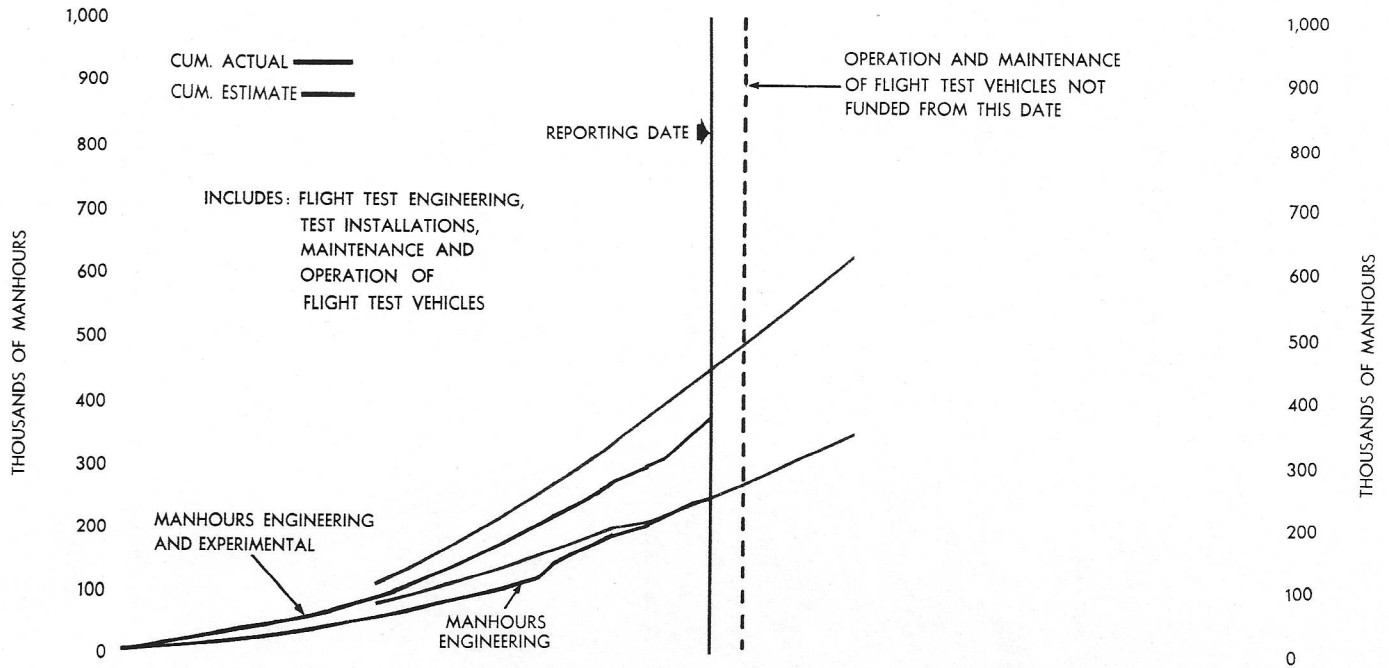
RIG DESIGN AND
MANUFACTURE

TESTING

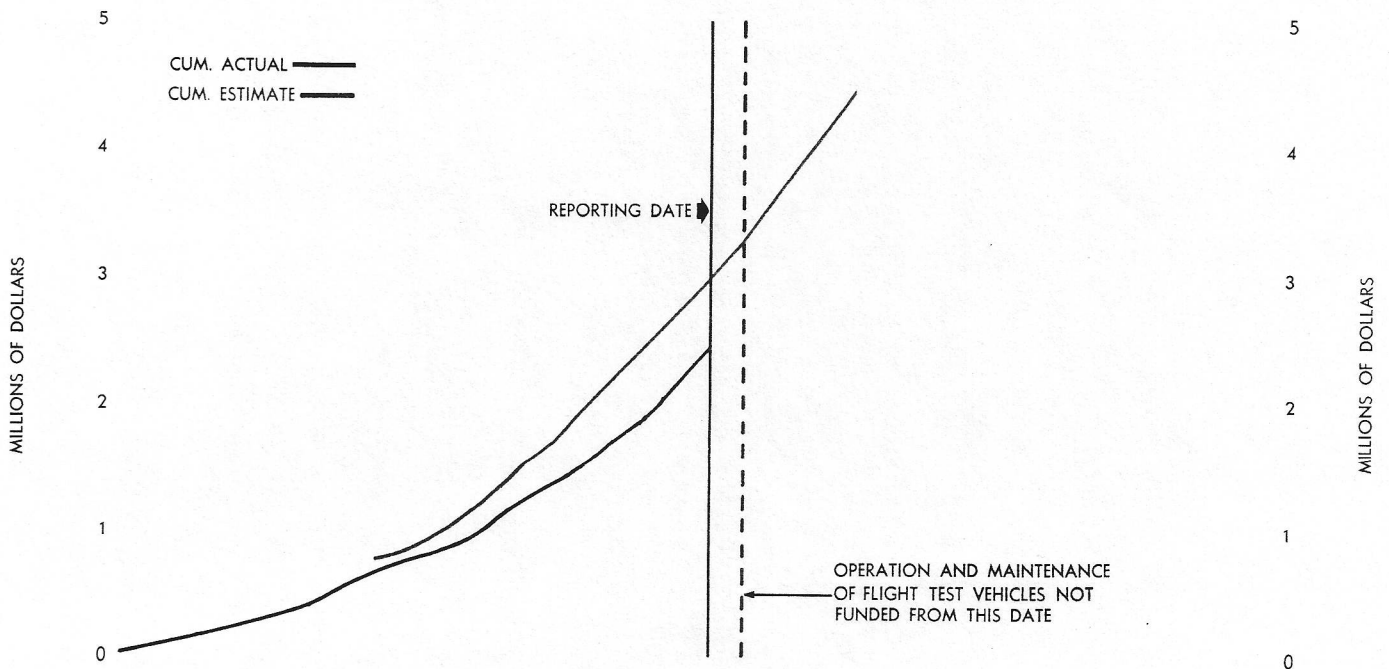


OTHER ARROW 2 TEST PROGRAMS
WILL BE ADDED WHEN PLANNING
IS SUFFICIENTLY ADVANCED.

ENGINEERING FLIGHT TEST



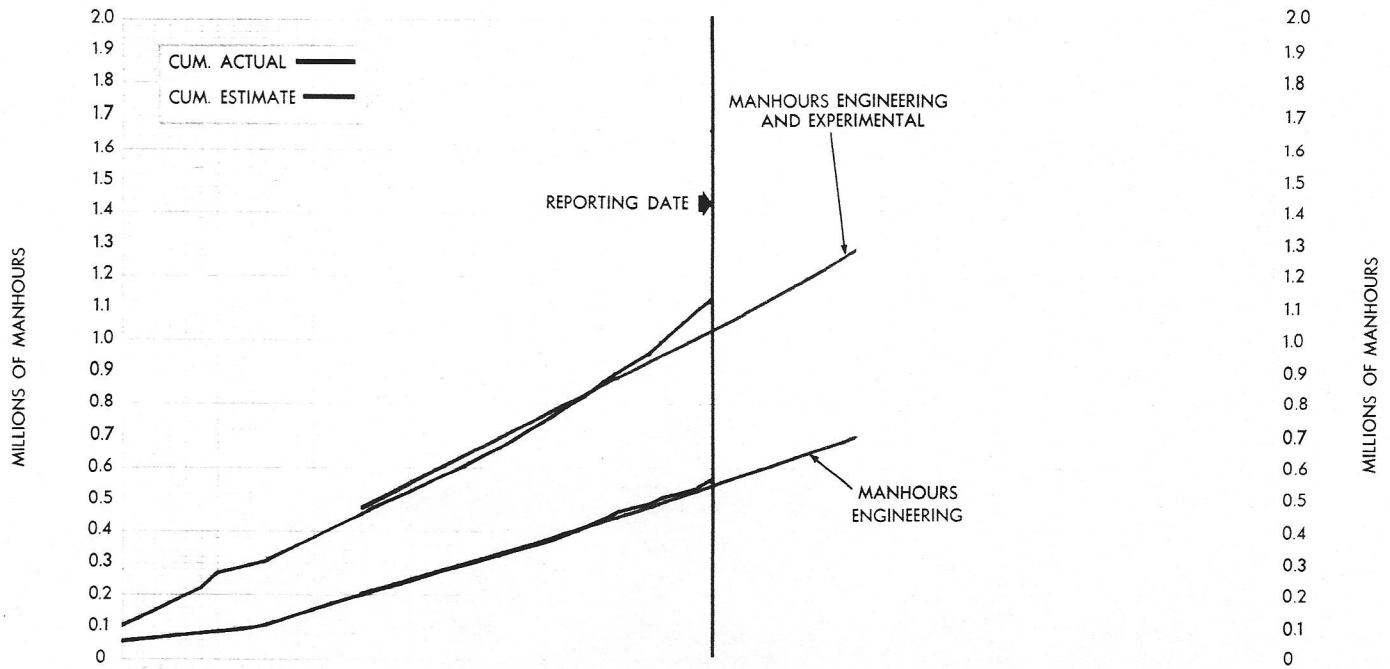
MANHOUR EXPENDITURES



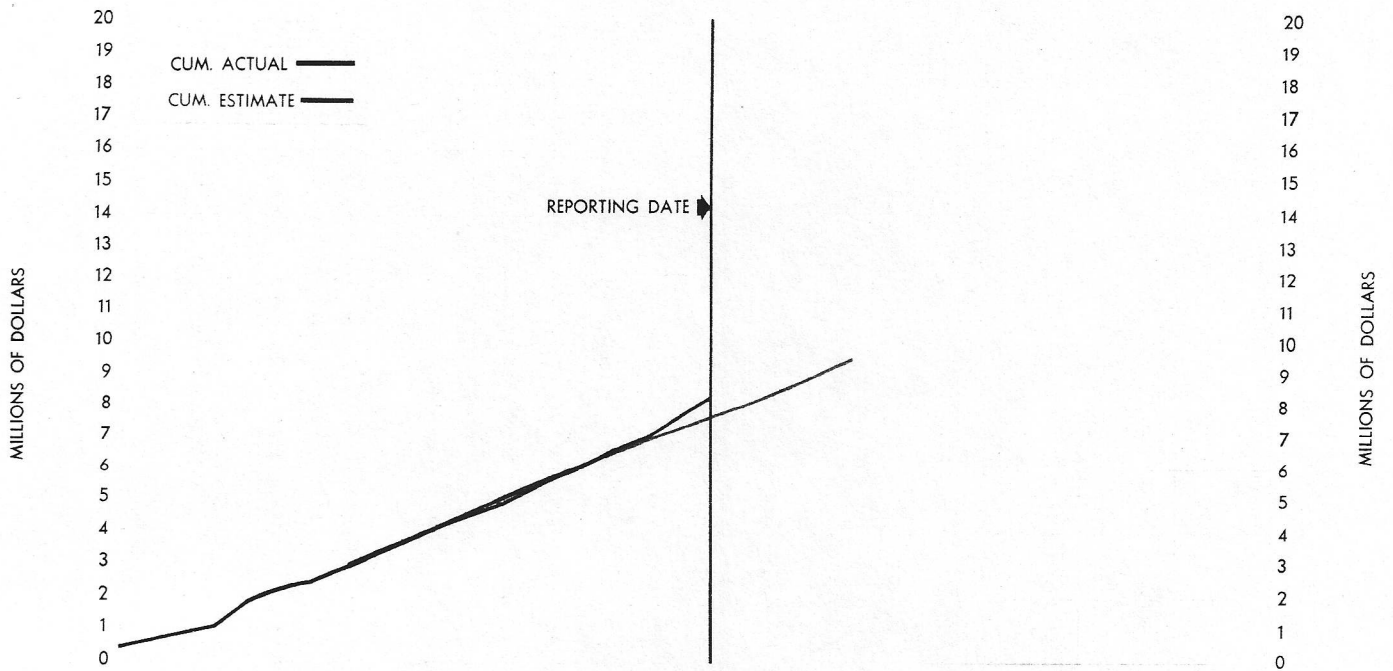
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DOLLAR EXPENDITURES

STRUCTURE AND SYSTEMS TESTS



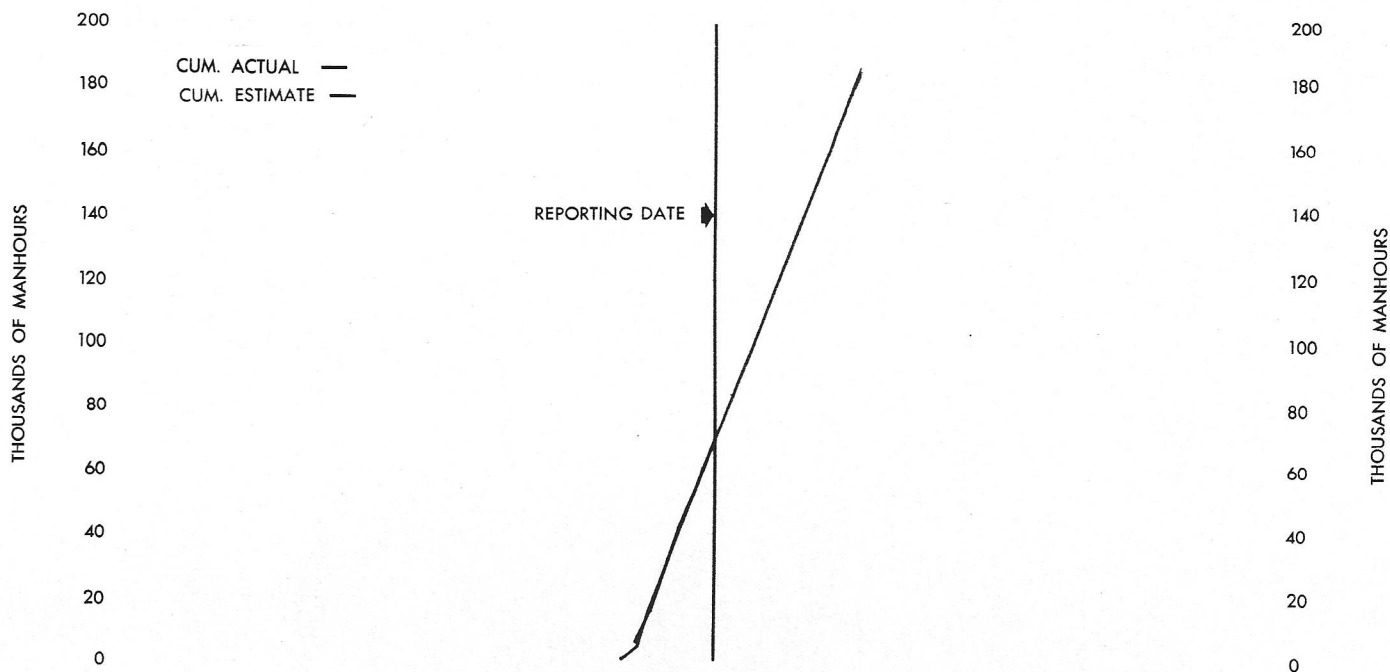
MANHOUR EXPENDITURES



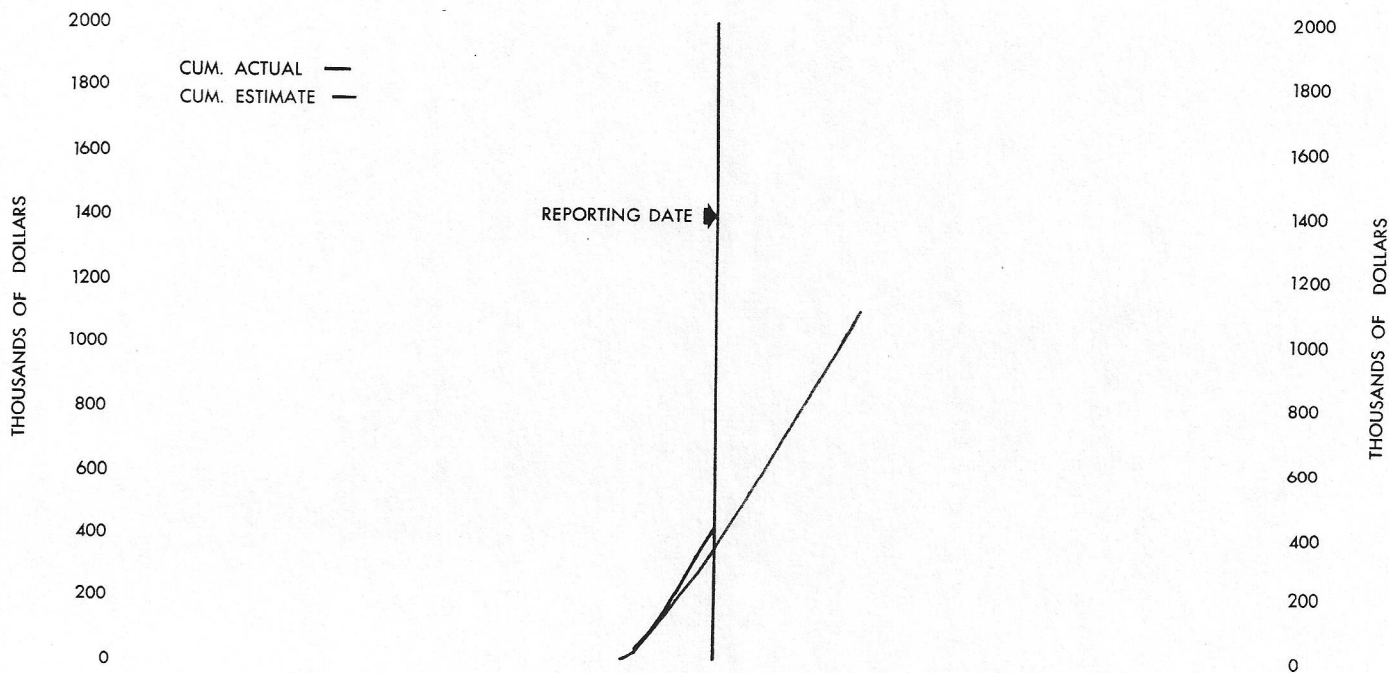
109-MPR70-6

DOLLAR EXPENDITURES

INSTRUMENTATION LABORATORY



MANHOUR EXPENDITURES



DOLLAR EXPENDITURES

SECTION 4
ENGINEERING -
GROUND SUPPORT EQUIPMENT
&
AIRCRAFT SYSTEMS TRAINER

ENGINEERING - GROUND SUPPORT EQUIPMENT AND SYSTEMS TRAINERS

Charts previously titled Aircraft Systems Trainer are now titled Systems Trainers.

On the Ground Support Equipment - Major Items chart a Study Report bar has been added for the ARROW 2 Starter. Further work is necessary on the studies for the ARROW 2 Starter and Air Conditioning

Vehicles. This further work is scheduled for February and March 1958, and following RCAF agreement on the revised studies, specification writing is scheduled from mid-April to mid-June 1958. Delivery dates for the ARROW 1 air conditioning vehicles, hydraulic stand and air-nitrogen compressor are re-scheduled.

SECRET

ENGINEERING GROUND SUPPORT EQUIPMENT AND SYSTEMS TRAINERS

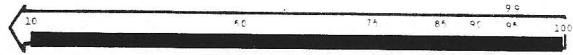
ARROW 1
1st LINE MAINTENANCE
EQUIPMENT DESIGN



ARROW 1
2nd LINE MAINTENANCE
EQUIPMENT DESIGN

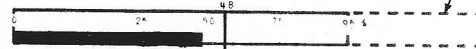


ARROW 1
ELECTRONICS TEST
EQUIPMENT DESIGN

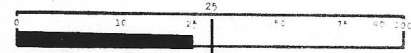


START
JAN. 1954

ARROW 2
1st LINE MAINTENANCE
EQUIPMENT DESIGN



ARROW 2
2nd LINE MAINTENANCE
EQUIPMENT DESIGN



BASED ON ISSUE 1 OF
AVRO REPORT 70/G.E.Q./1

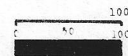
REPORTING DATE

CUM. ACTUAL
CUM. ESTIMATE

WEAPON PACK TESTER
AND MODIFICATIONS

ENGINEERING GROUND SUPPORT EQUIPMENT

R.C.A.F. PRELIMINARY
TECHNICAL
REQUIREMENTS
AND AVRO
DESIGN STUDY



R.C.A.F. EVALUATION
AND APPROVAL

R.C.A.F. SPECIFICATION
AND CONTRACT GO AHEAD

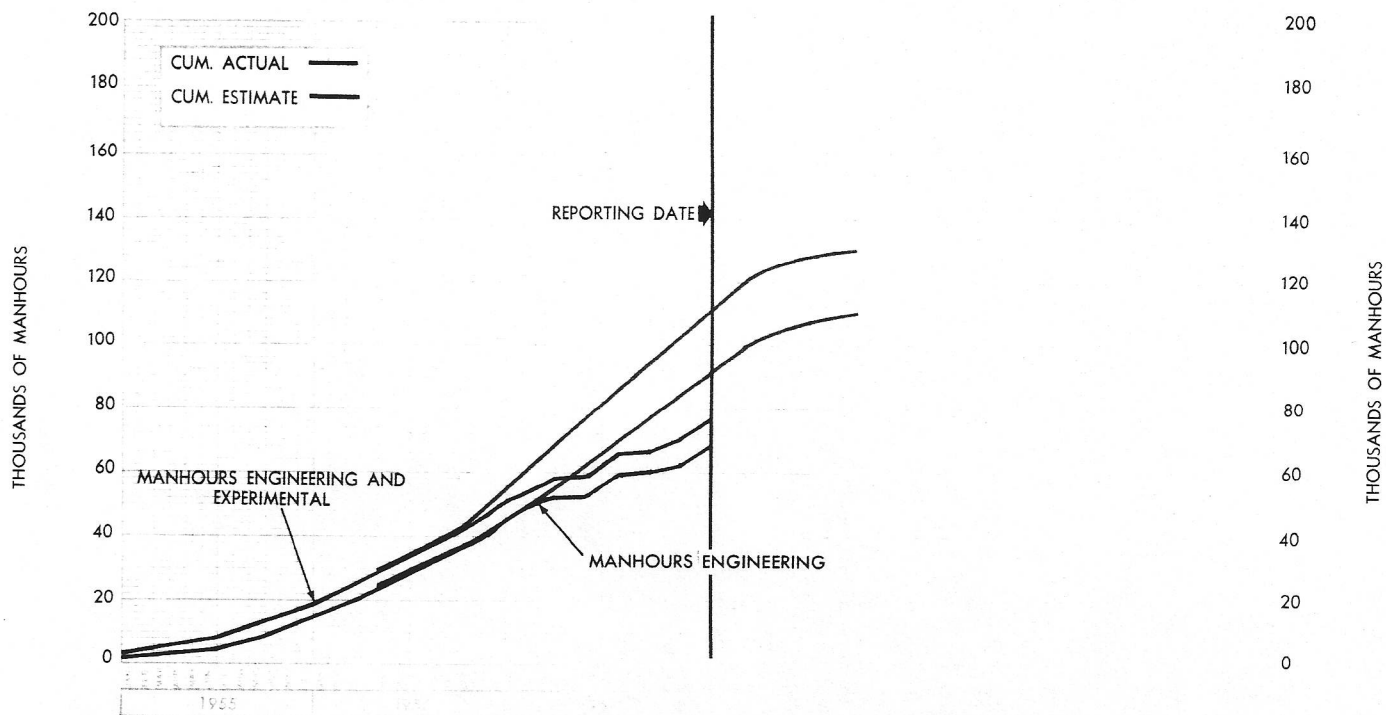
REQUIRED

REPORTING DATE

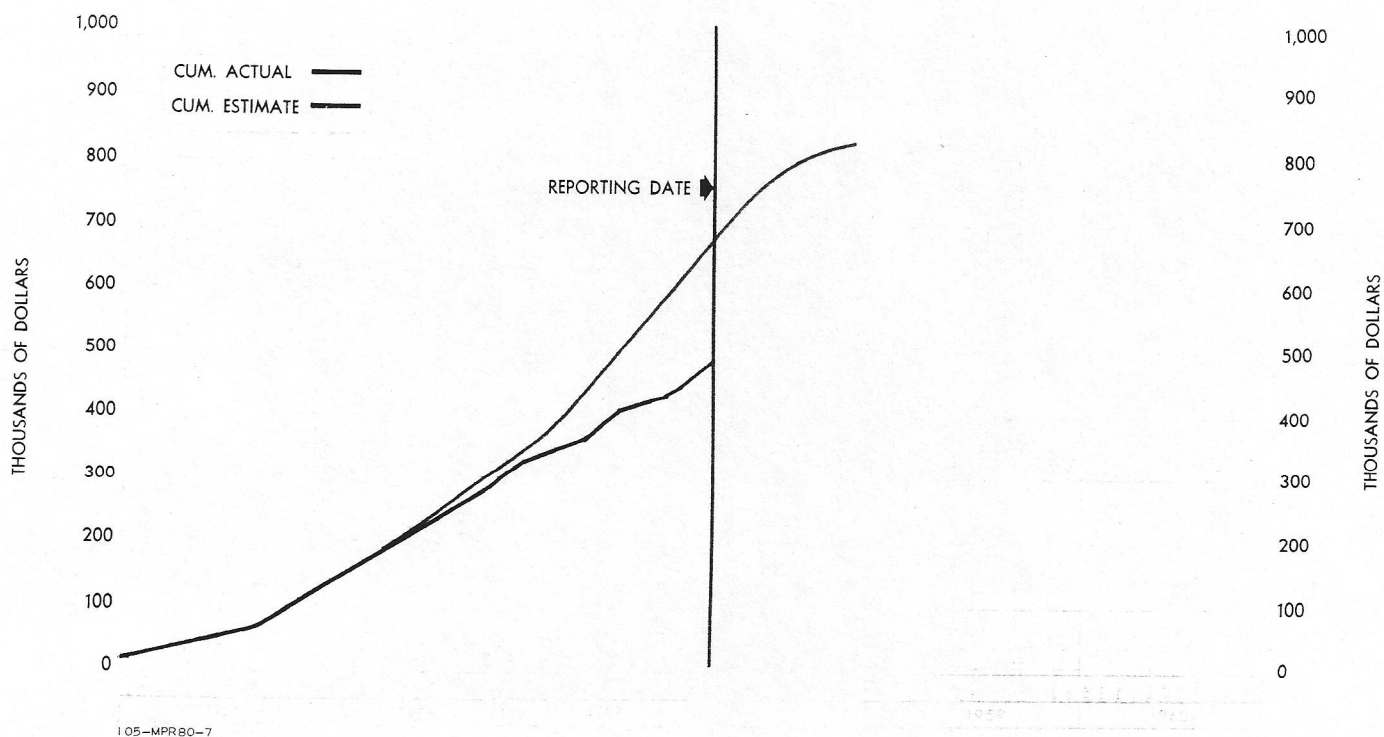
CUM. ACTUAL
CUM. ESTIMATE



GROUND SUPPORT EQUIPMENT - DESIGN AND DEVELOPMENT



MANHOUR EXPENDITURES



DOLLAR EXPENDITURES



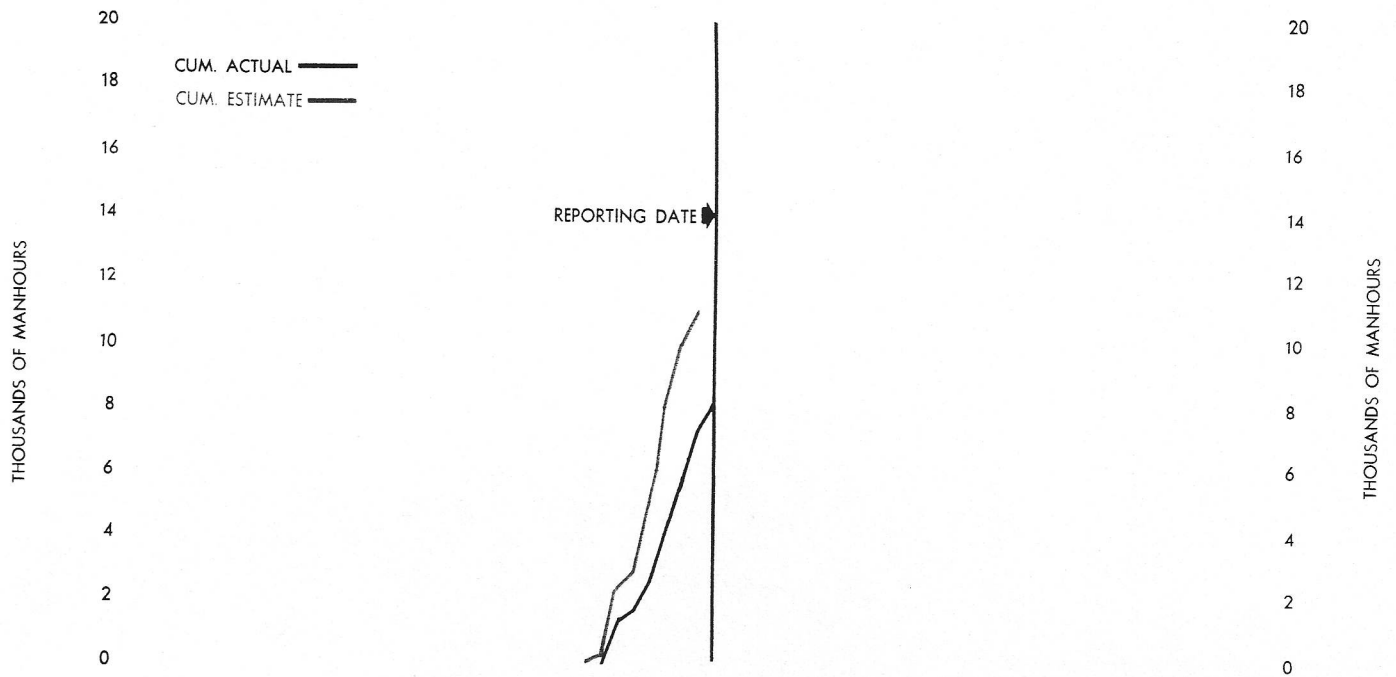
GROUND SUPPORT EQUIPMENT - MAJOR ITEMS

STARTER	ARROW 1 (INTERIM)	DELIVERY	ACTUAL	1	2	STUDY REPORT	1	2	REWRITE DESIGN STUDY	1	2	★
			SCHEDULED	1	2				R.C.A.F. AGREEMENT			
	ARROW 2	DELIVERY	ACTUAL						SPECIFICATION WRITING			
			SCHEDULED									
AIR CONDITIONING VEHICLES	ARROW 1 (INTERIM)	DELIVERY	ACTUAL	1	1							★
			SCHEDULED									
	ARROW 2	DELIVERY	ACTUAL									★
			SCHEDULED									
HYDRAULIC STAND	FOR ARROW 1 & ARROW 2	DELIVERY	ACTUAL	1	2	STUDY REPORT	1	2	REWRITE DESIGN STUDY	1	2	★
			SCHEDULED						R.C.A.F. AGREEMENT			
			ACTUAL						SPECIFICATION WRITING			
			SCHEDULED									
AIR-NITROGEN COMPRESSOR		DELIVERY	ACTUAL	1	1							★
			SCHEDULED									

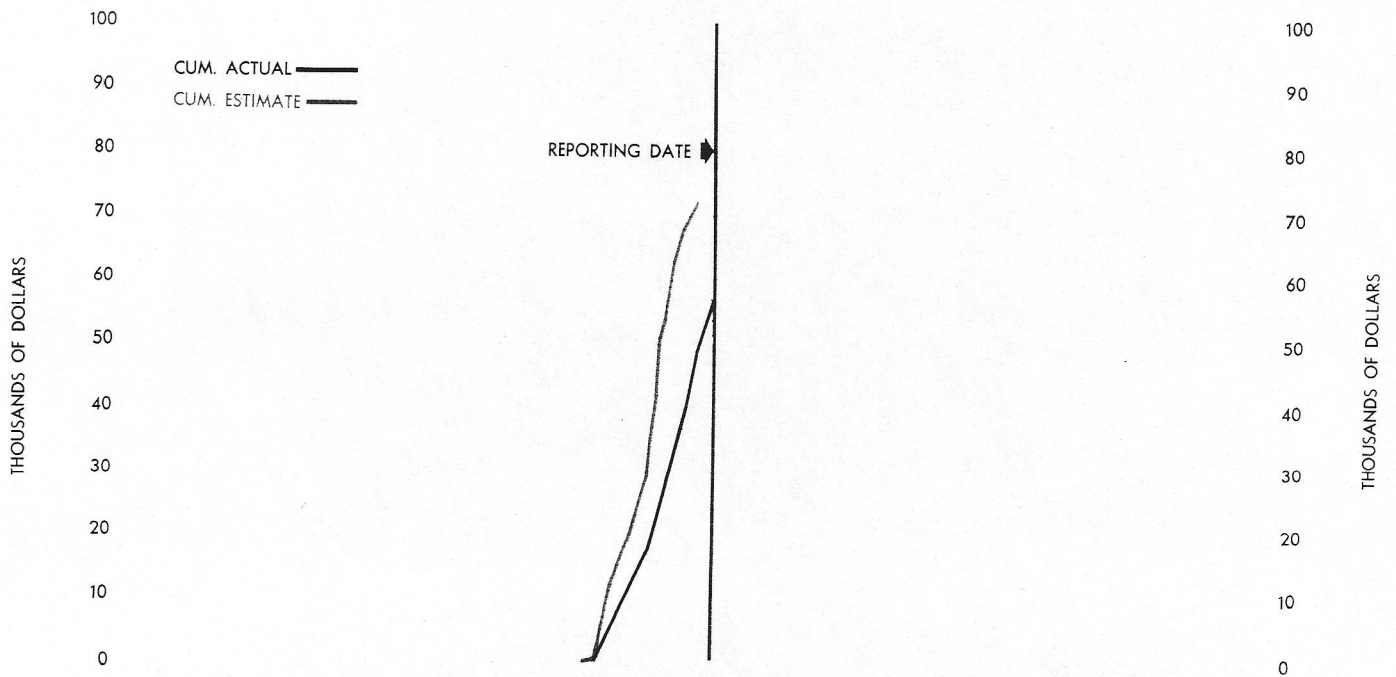
REPORTING DATE

AIRFRAME SYSTEMS TRAINER DESIGN STUDY

★



MANHOUR EXPENDITURES



DOLLAR EXPENDITURES

SECTION 5
TOOLING AND MANUFACTURING



TOOLING AND MANUFACTURING

This section deals with those phases of the program which relate to the Manufacturing Division. It affords a comparison of total Tooling and Production costs with performance in terms of percentage completed at the reporting date. Since the last issue the physical performance cumulative estimates have been amended on the chart showing total production costs and performance to coincide with schedule revision.

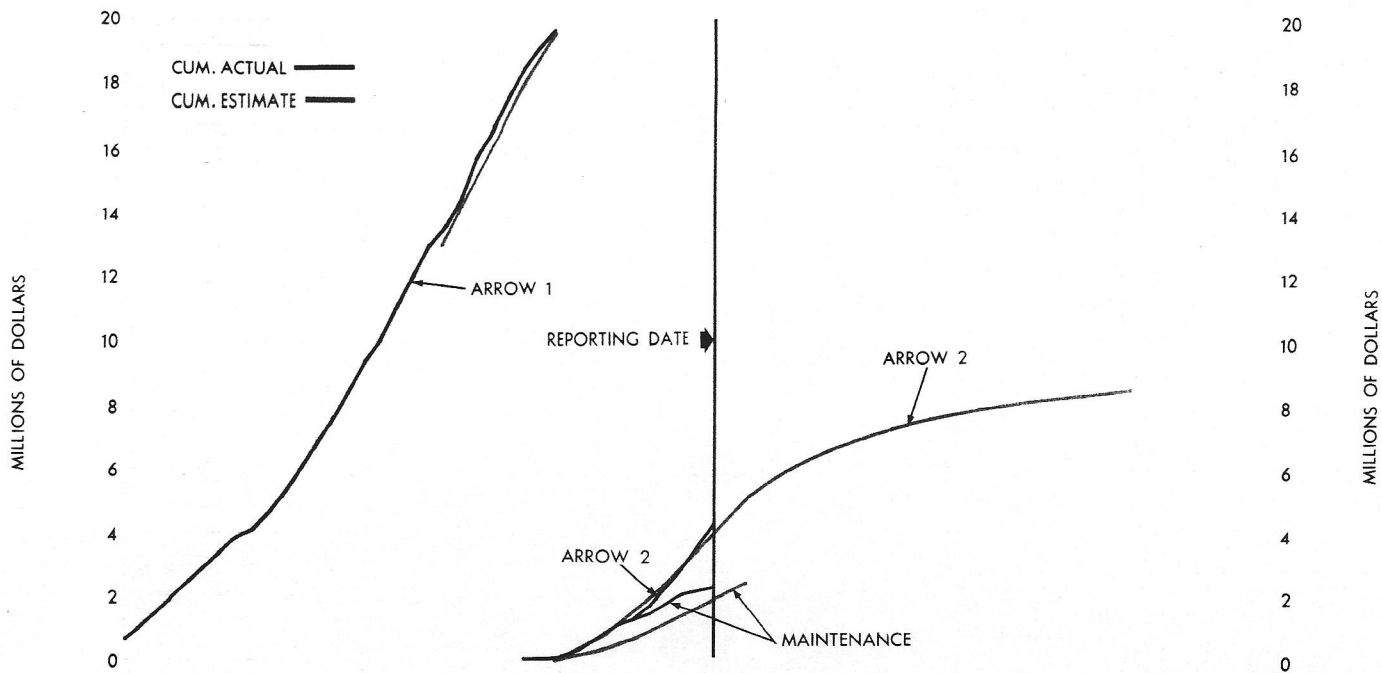
Bar charts showing the progress of the first eight aircraft and the static test aircraft are included. On the progress chart for the first aircraft the estimated schedules for production flight test and total aircraft have been extended to coincide with schedule revision. The estimated schedules for stages beyond details and subassembly have been amended on the progress charts for the second, third, fourth and fifth aircraft for the same reason. The estimated date for 25% total aircraft com-

pletion has been amended on the progress chart for the seventh aircraft.

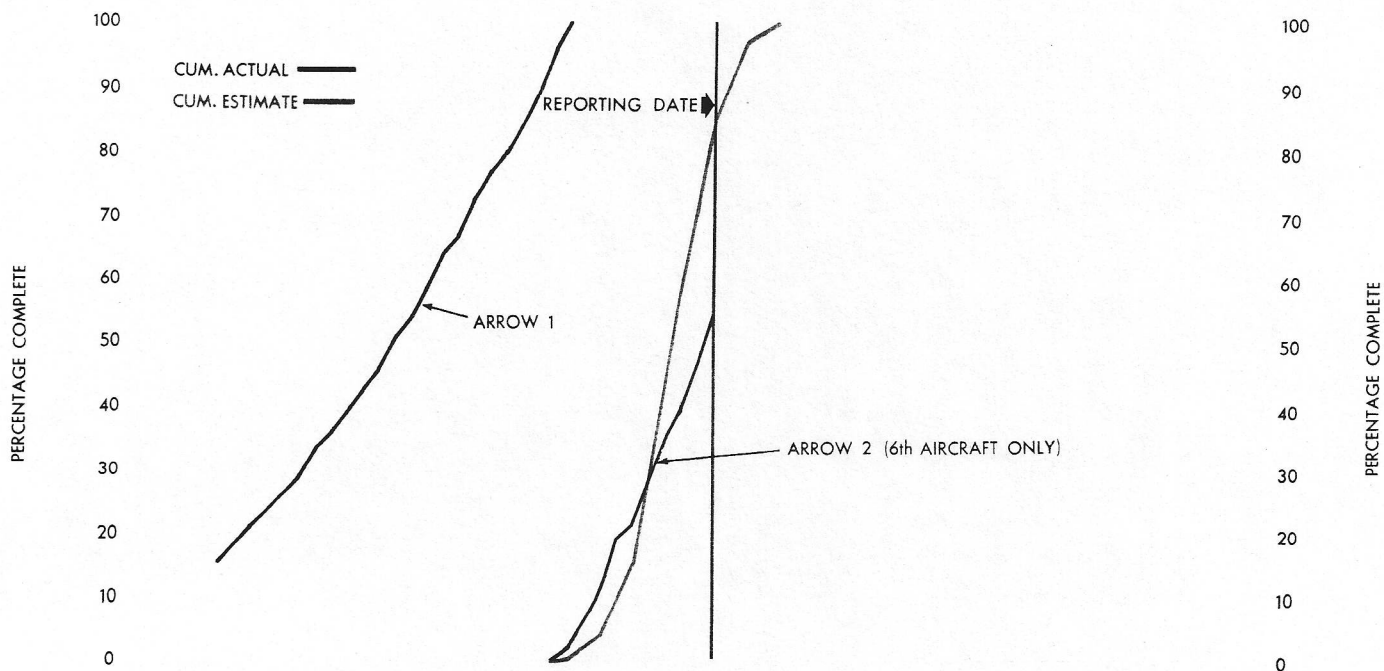
Manhour and dollar expenditures for the production of spares, ground support equipment, publications and the metal mockup are shown, as are costs for test components, airborne test equipment and production material. The record of production material cost associated with the first five aircraft has been amended to exclude development material.

The section also contains tables which reflect the supply position for pacing items of Avro furnished equipment and for Government Supplied Material. The aircraft acceptance and completion schedules in these tables have been revised. Information pertaining to the requirement and receipt of the dynamotor AIC-10 has been deleted as this item is no longer required.

TOTAL TOOLING - COSTS AND PERFORMANCE



DOLLAR EXPENDITURES

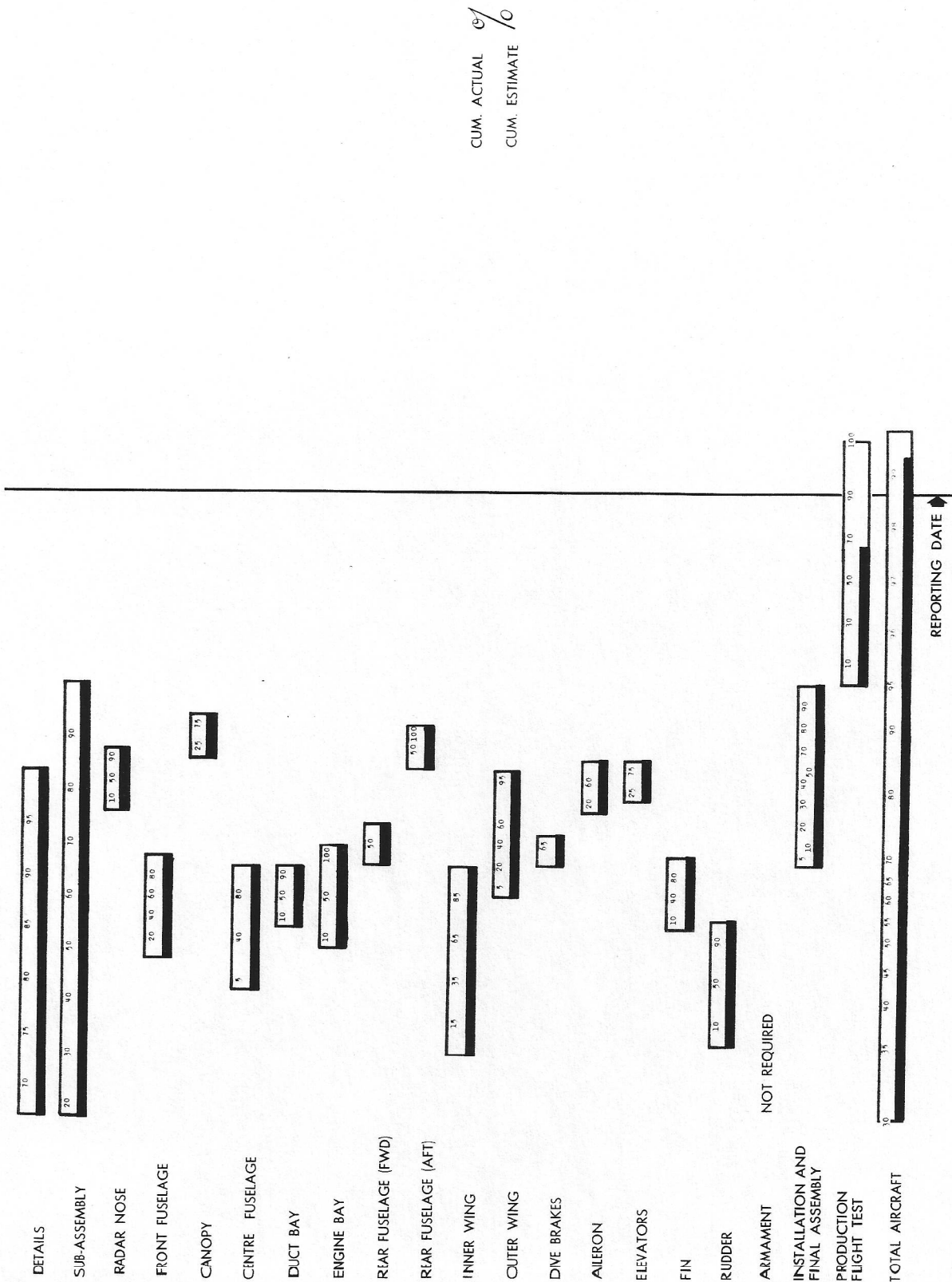


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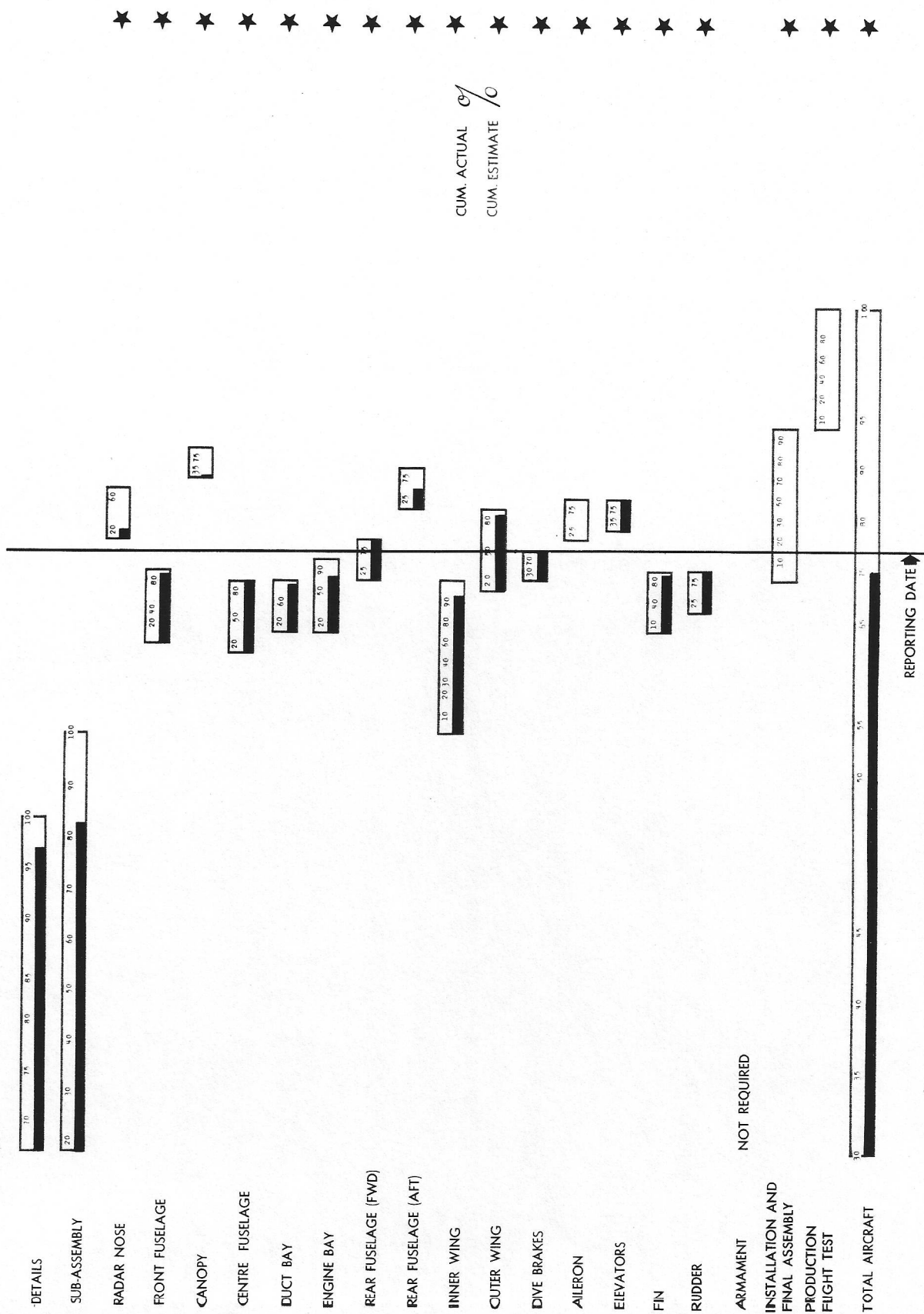
PHYSICAL PERFORMANCE

★ ★

PROGRESS CHART — FIRST AIRCRAFT



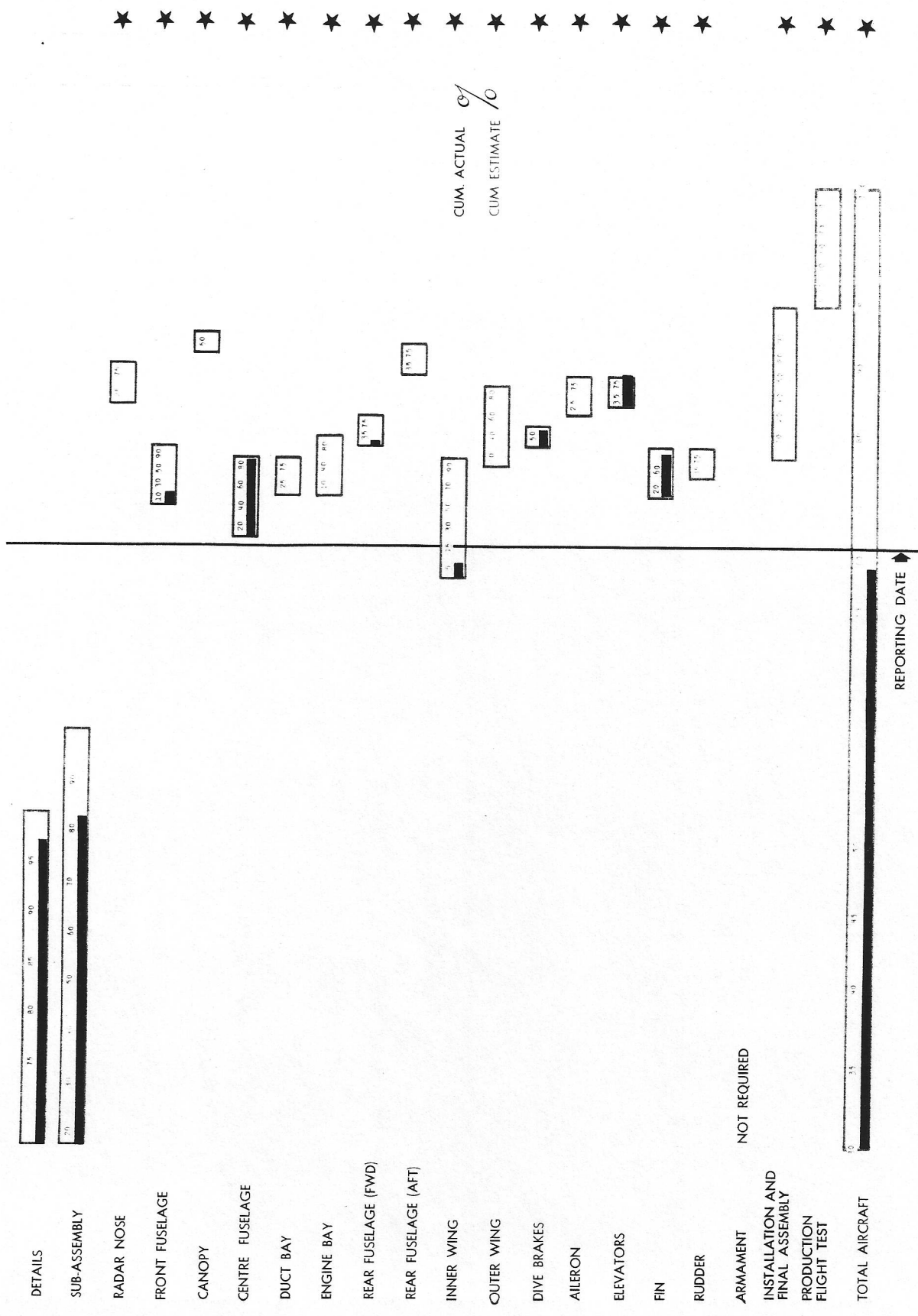
REPORTING DATE 



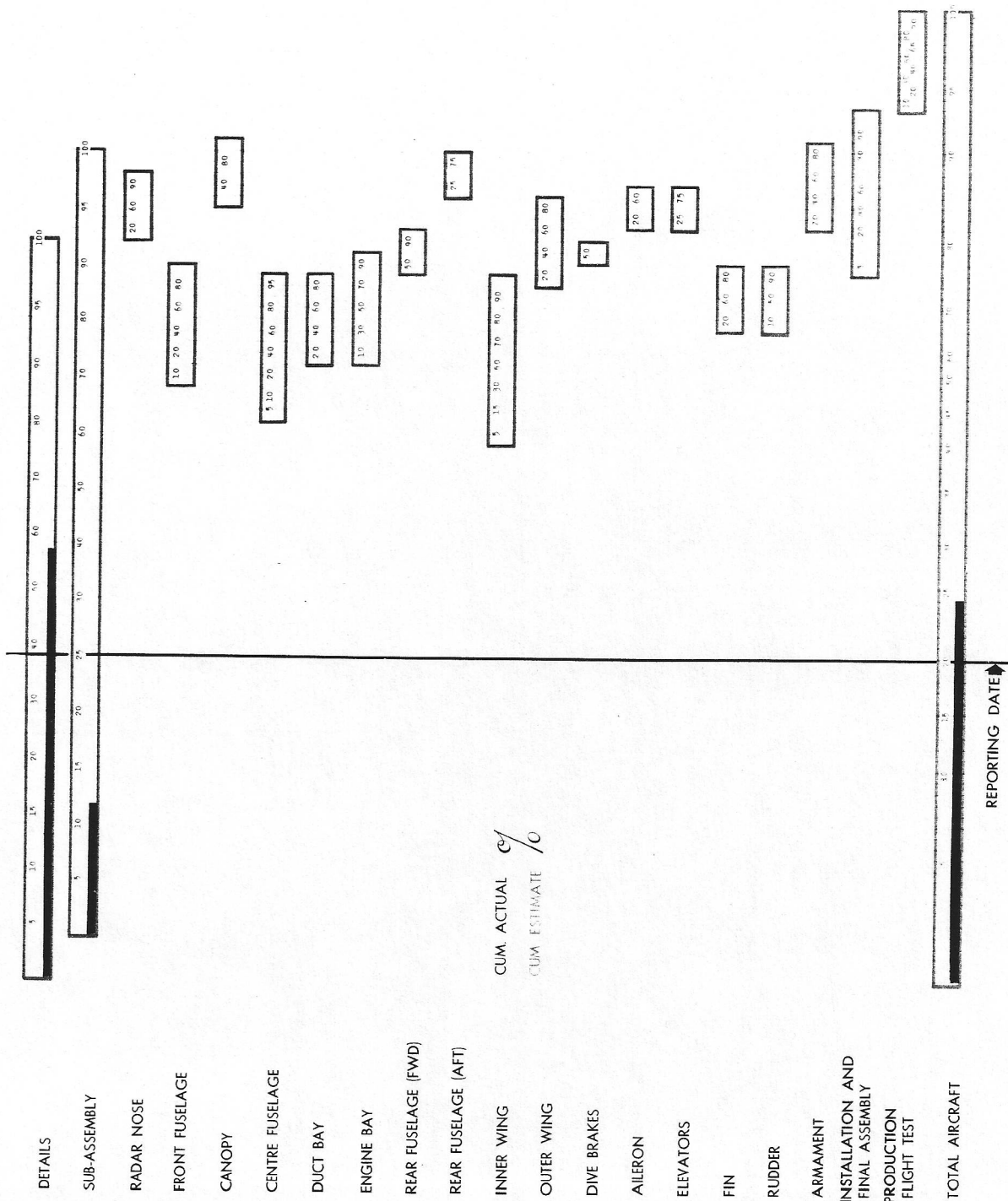
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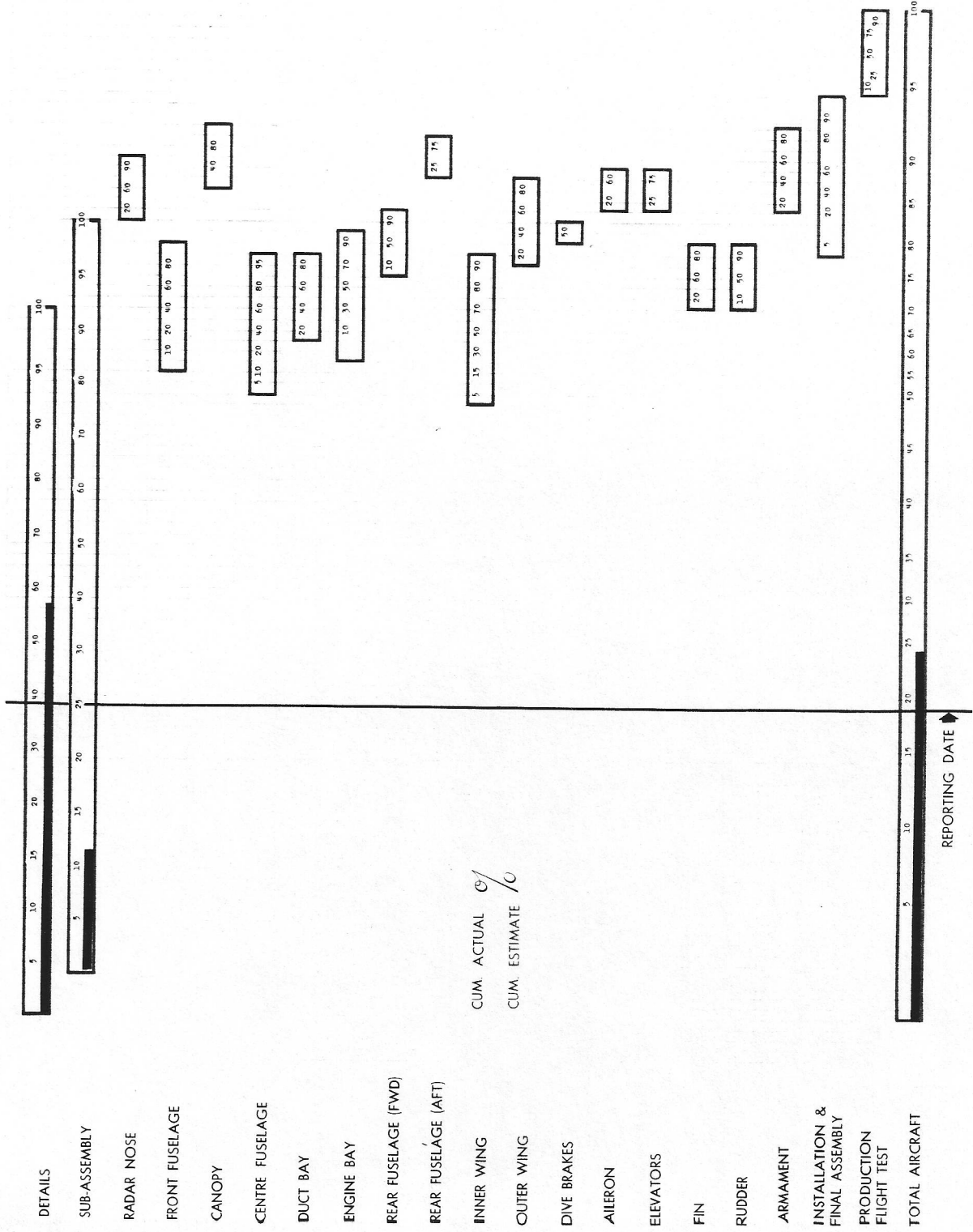
PROGRESS CHART -- FIFTH AIRCRAFT



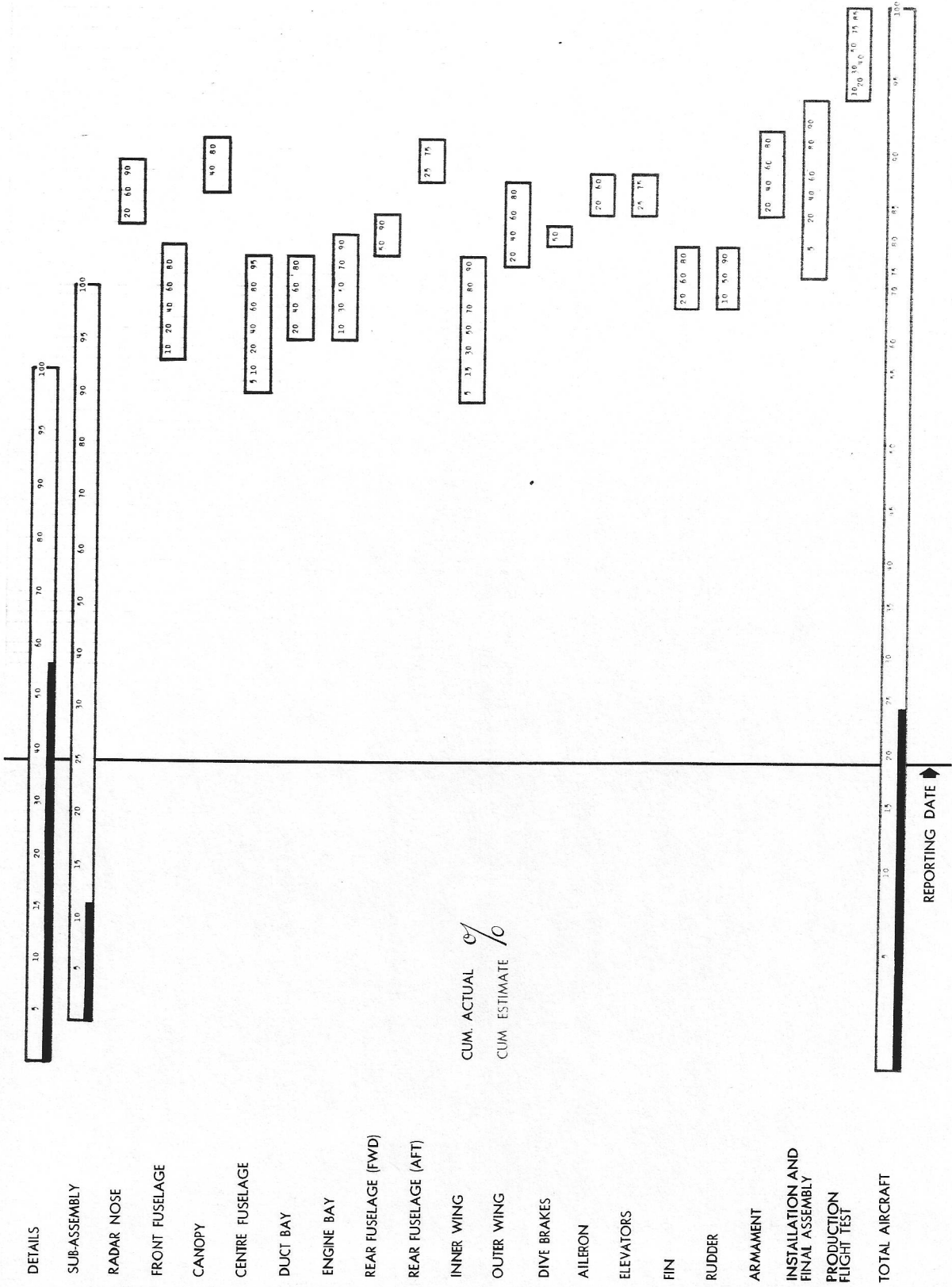
PROGRESS CHART - SIXTH AIRCRAFT



PROGRESS CHART - SEVENTH AIRCRAFT

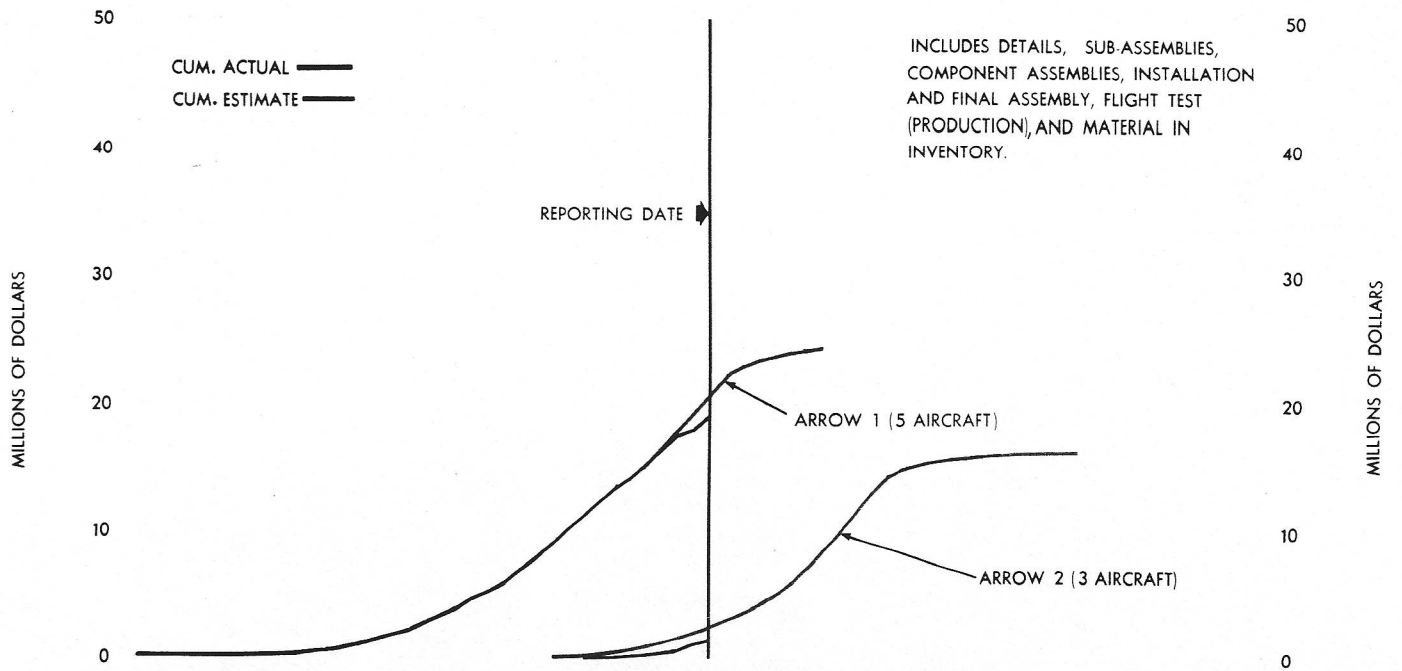


PROGRESS CHART — EIGHTH AIRCRAFT

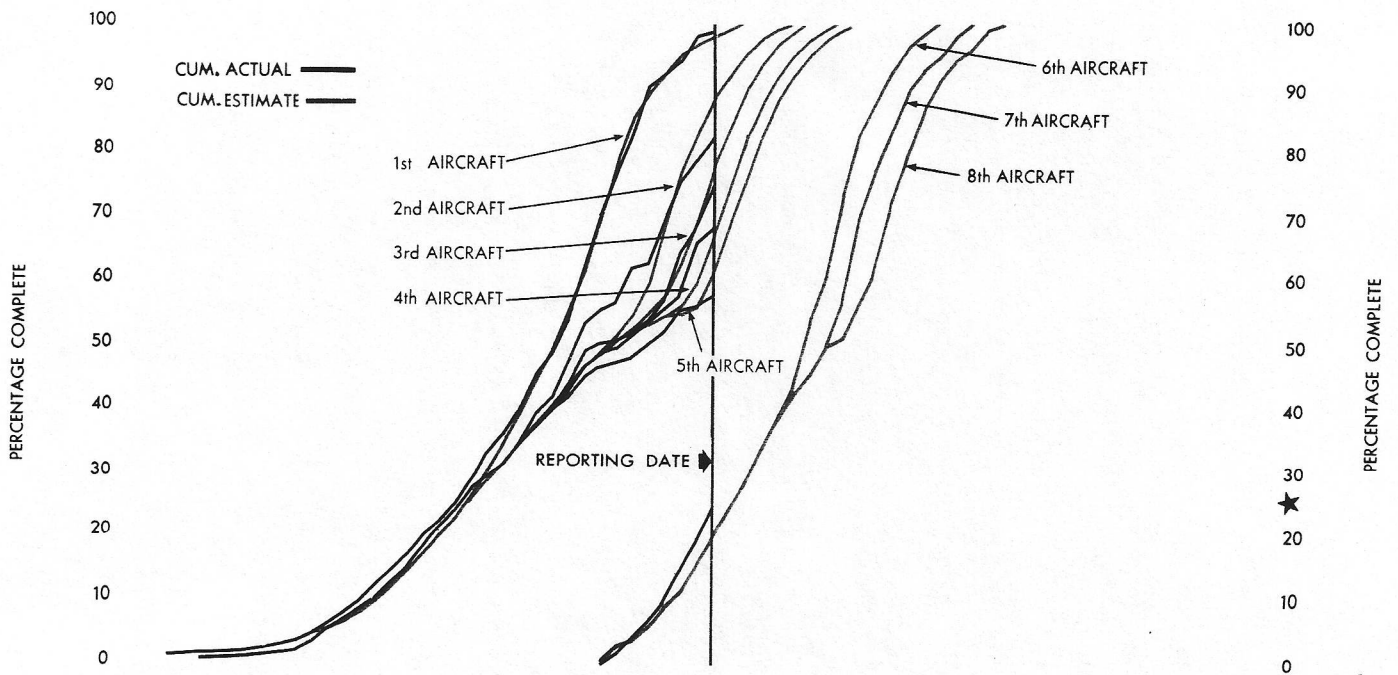




TOTAL PRODUCTION - COSTS AND PERFORMANCE



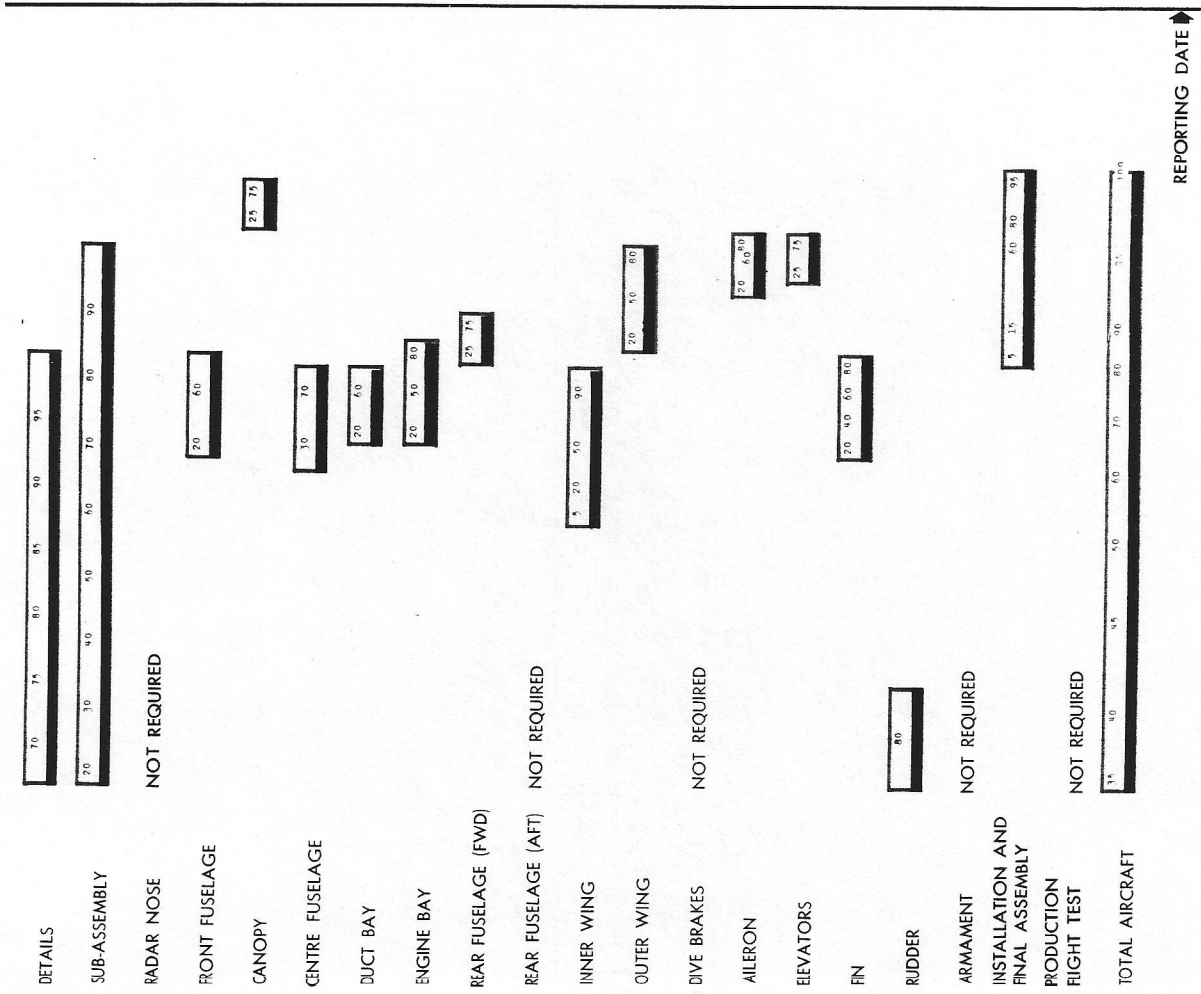
DOLLAR EXPENDITURES



105-MPR49-7

PHYSICAL PERFORMANCE

PROGRESS CHART — STATIC TEST AIRCRAFT

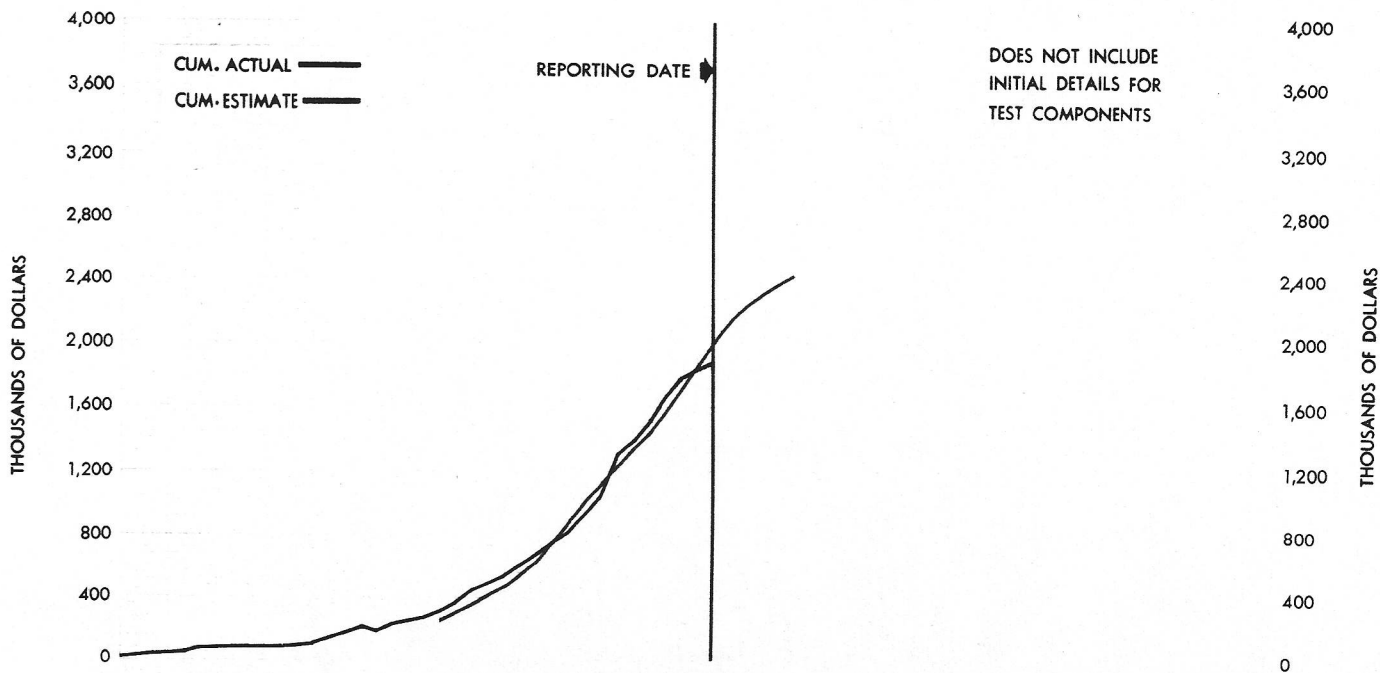


CUM. ACTUAL %
CUM. ESTIMATE %

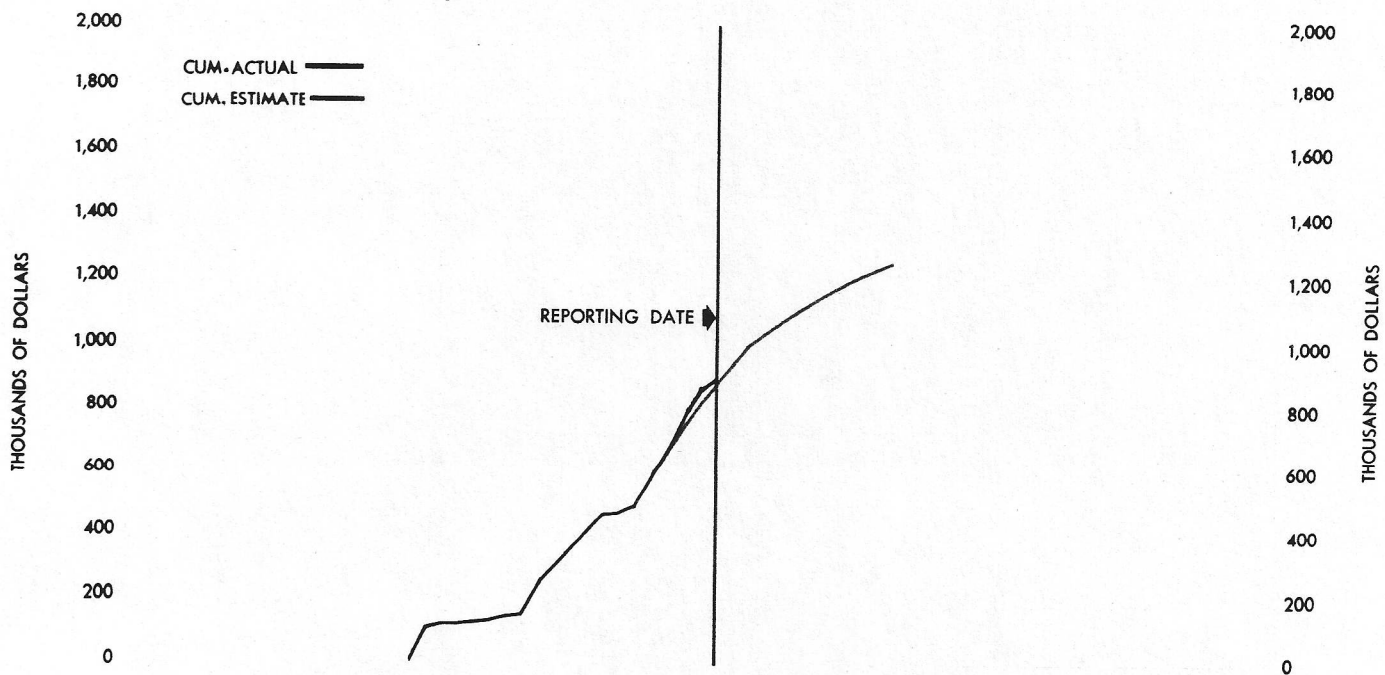
REPORTING DATE



TEST COMPONENTS AND AIRBORNE TEST EQUIPMENT COSTS



TEST COMPONENT DOLLAR EXPENDITURES

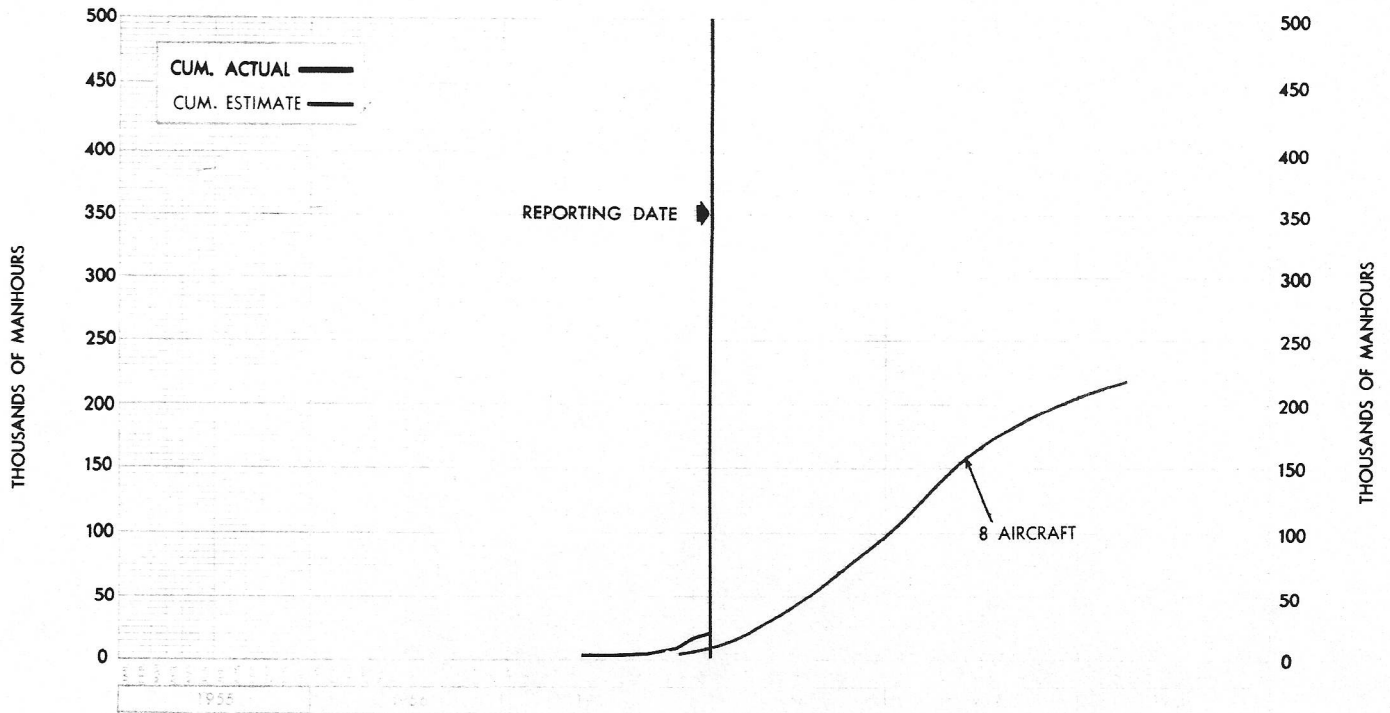


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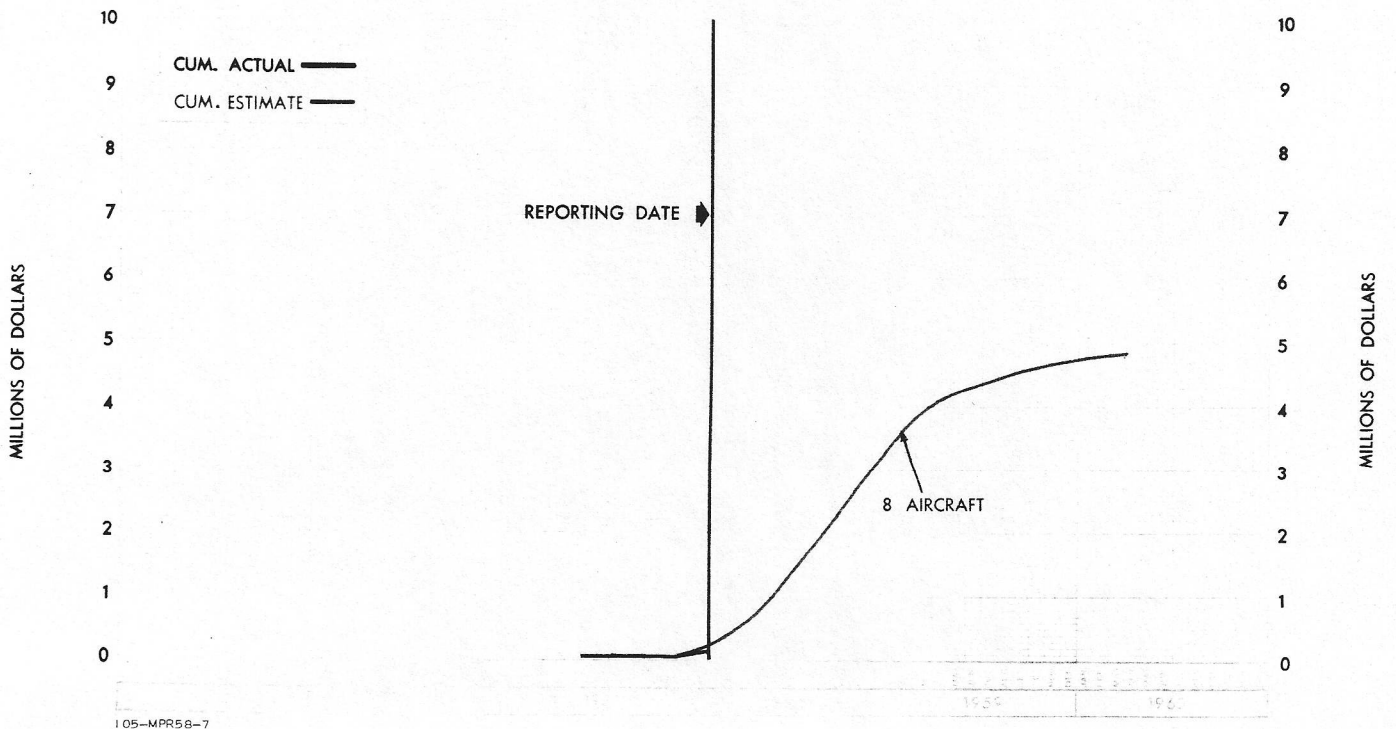
AIRBORNE TEST EQUIPMENT DOLLAR EXPENDITURES



SPARES PRODUCTION

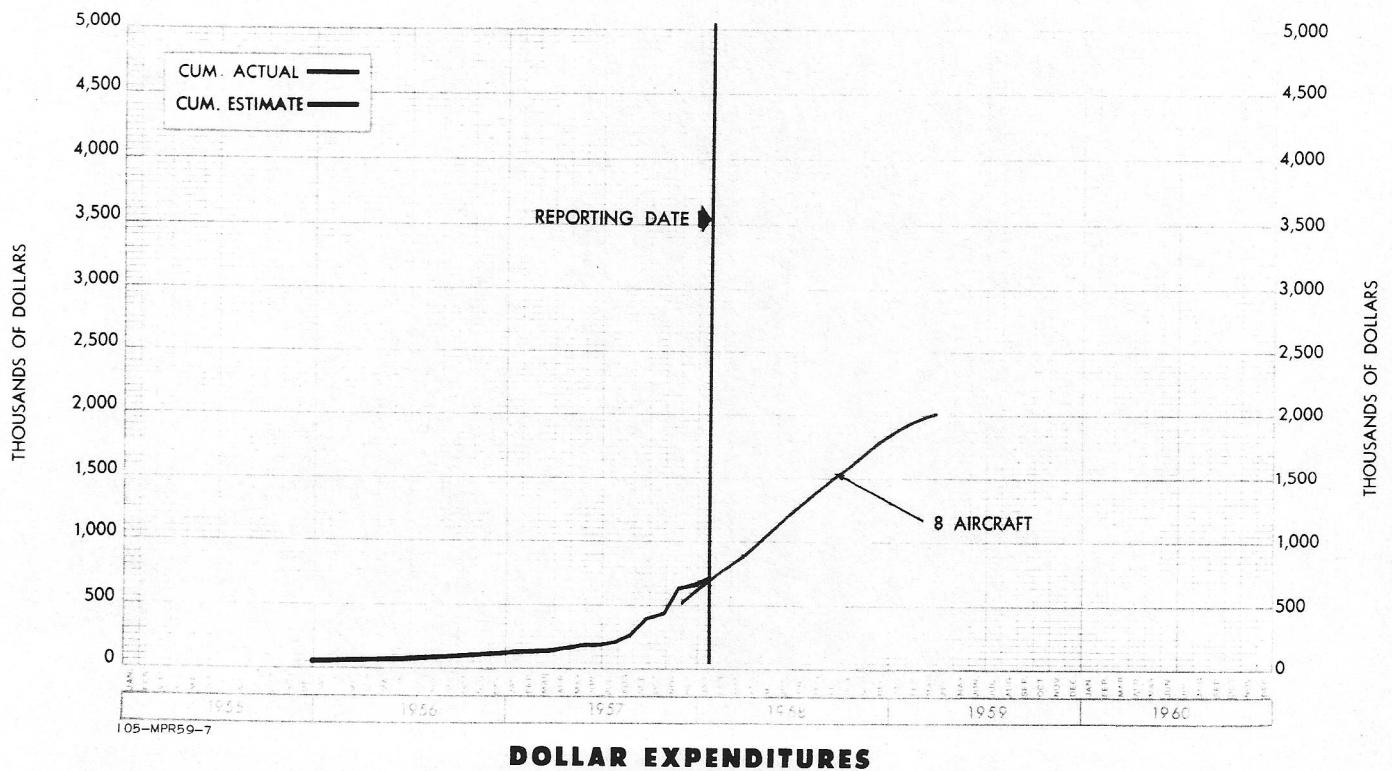
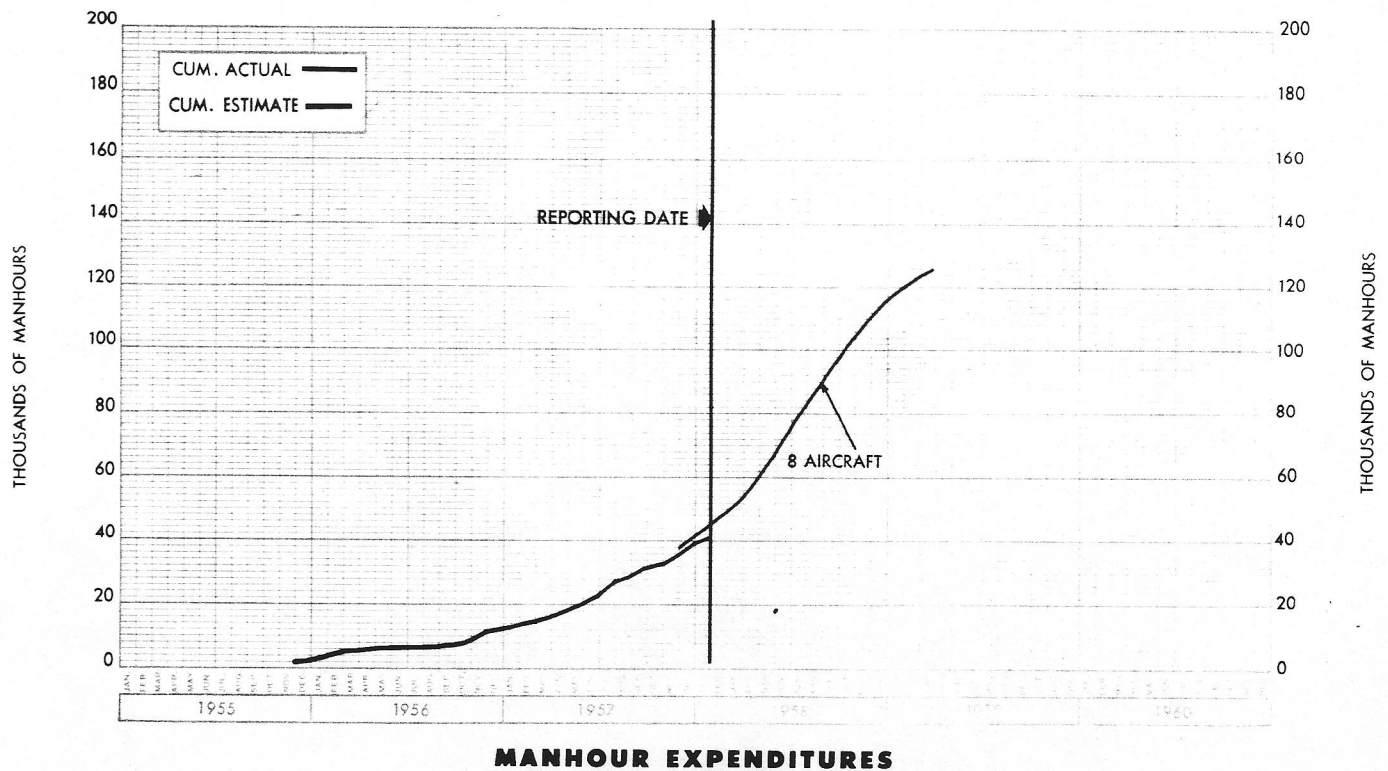


MANHOOR EXPENDITURES

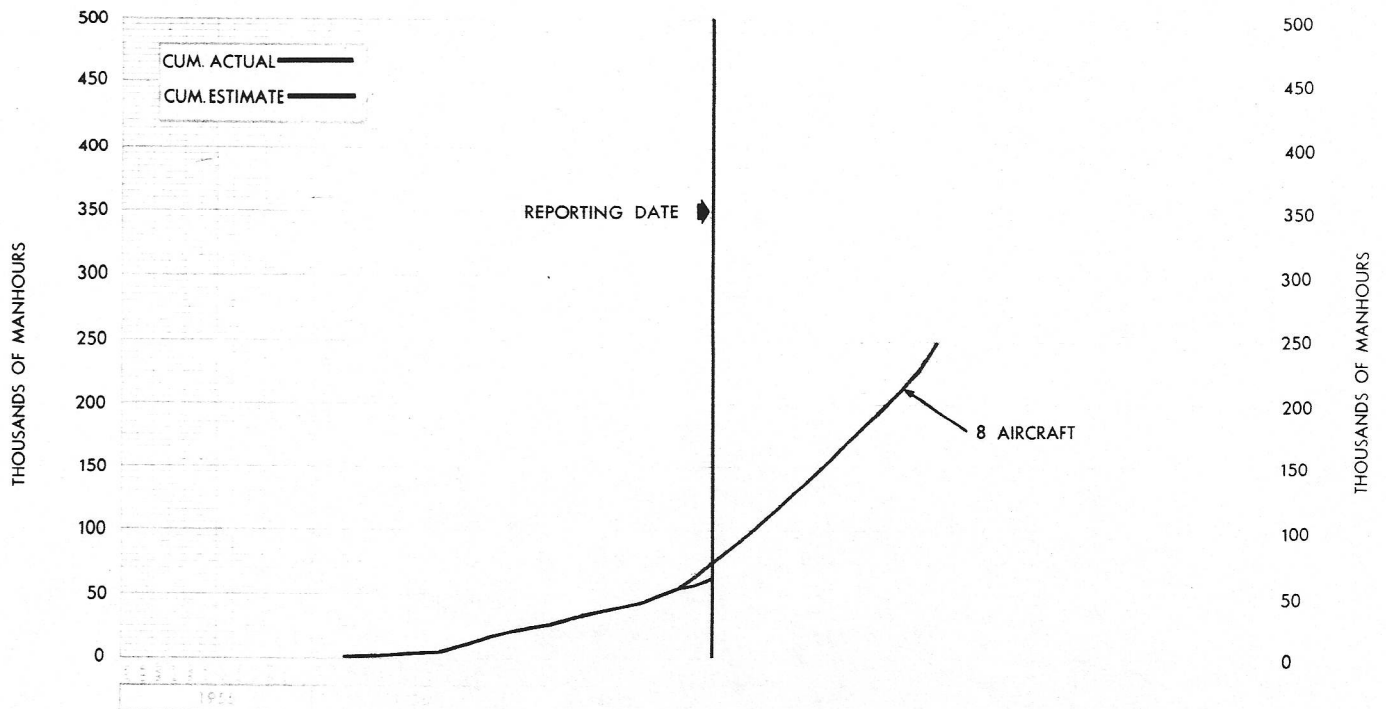


DOLLAR EXPENDITURES

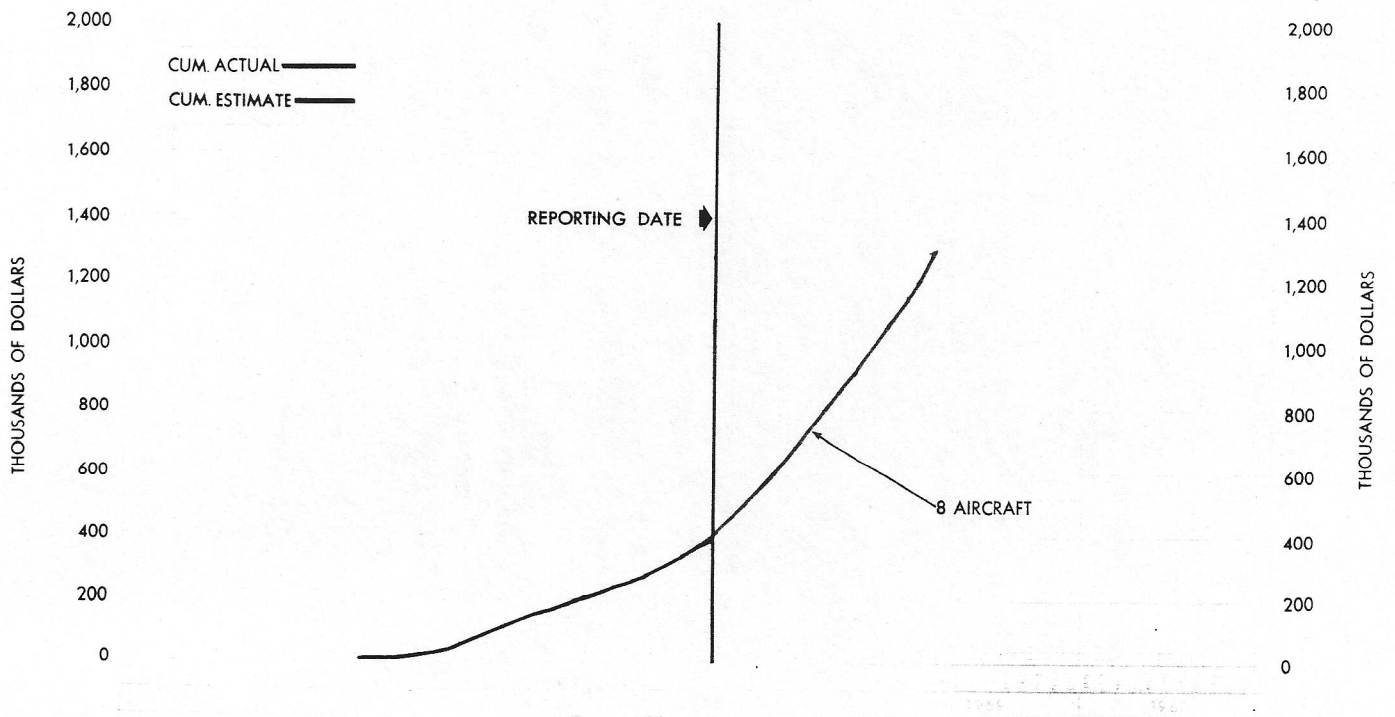
GROUND SUPPORT EQUIPMENT PRODUCTION



PUBLICATIONS



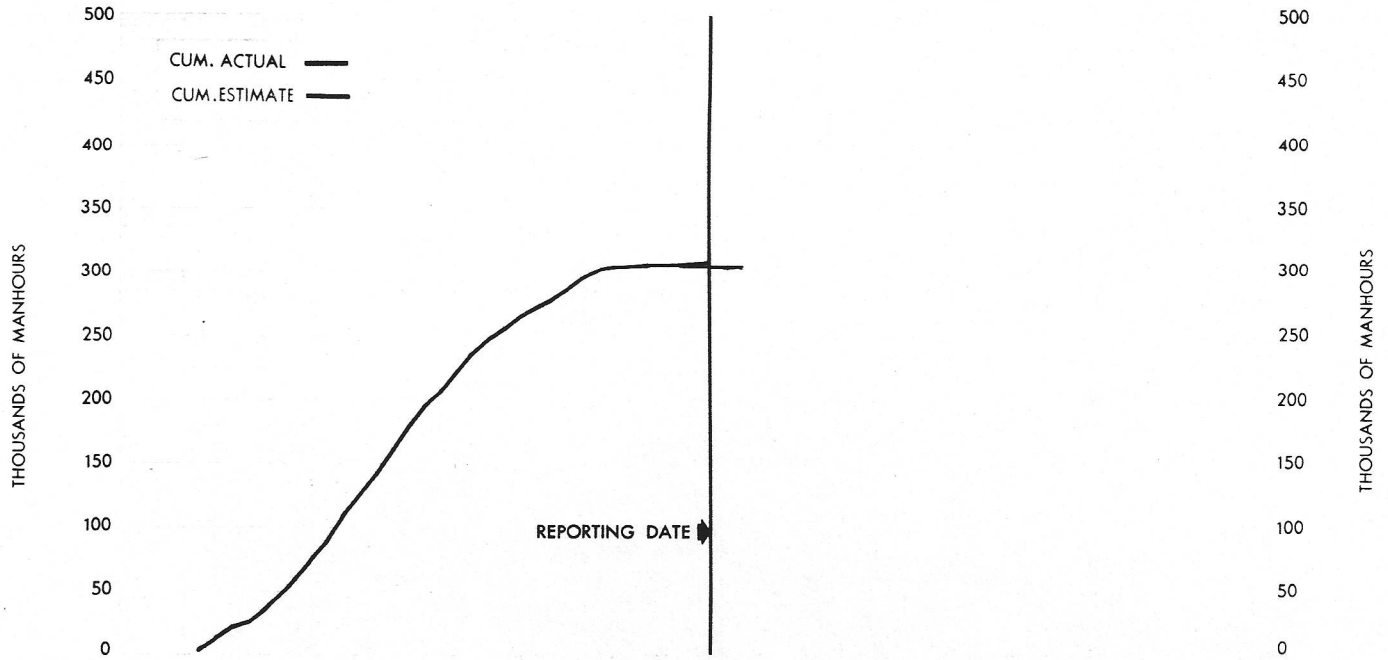
MANHOUR EXPENDITURES



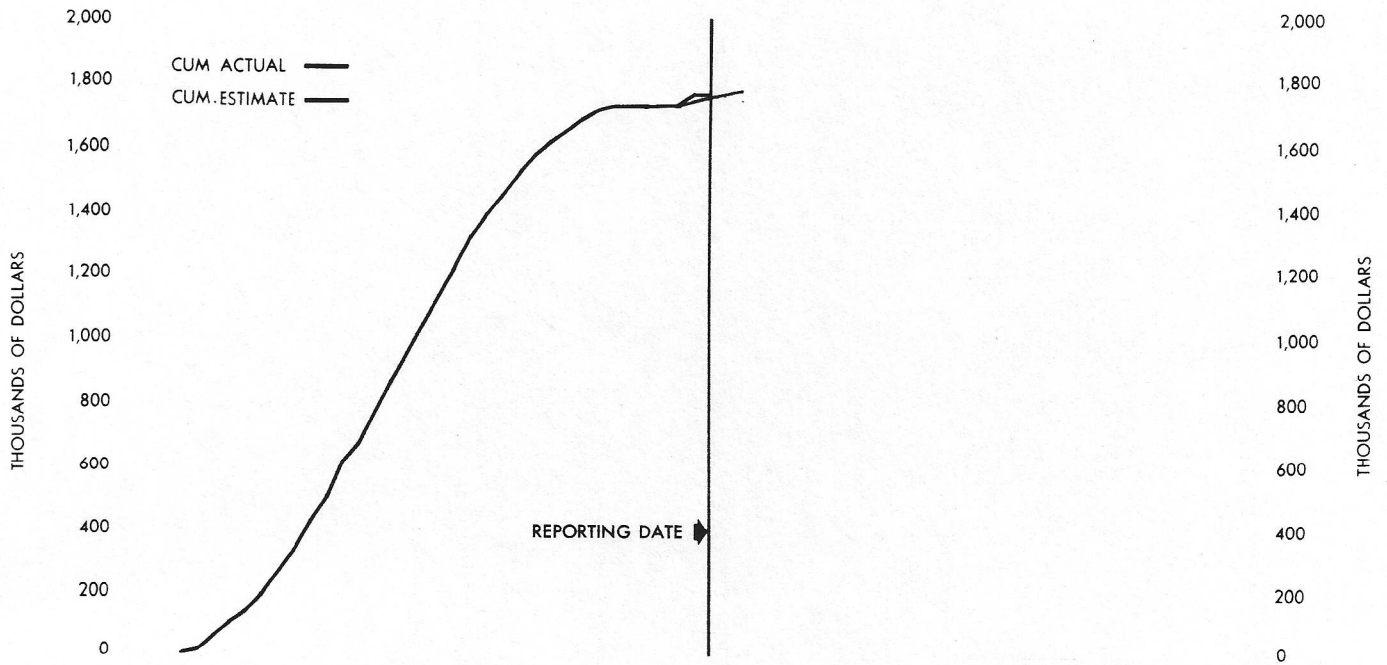
105-MPR60-7

DOLLAR EXPENDITURES

METAL MOCK UP PRODUCTION

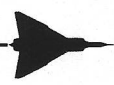


MANHOURLY EXPENDITURES



105-MPR61-7

DOLLAR EXPENDITURES



AVRO FURNISHED EQUIPMENT (PACING ITEMS) - PAGE 2

DESCRIPTION									
FIRE PROTECTION	APPROX. 1 ITEM								
SUPPLY UNIT FIRE EXTINGUISHER		1	2	3	4	5		6	7 8
ELECTRICAL	APPROX. 188 ITEMS								
ALTERNATORS AND TRANSFORMER									
RECTIFIER UNIT		1	2	3	4	5		6	7 8
STRUCTURE	APPROX. 66 ITEMS								
RADOME		1	2	3	4	5		6	7 8
DE-ICING	APPROX. 27 ITEMS								
DE-ICER BOOTS		1	2	3	4	5		6	7 8
ENGINE INSTALLATION	APPROX. 51 ITEMS								
GEAR BOXES		1	2	3	4	5		6	7 8
AIR CONDITIONING	APPROX. 91 ITEMS								
TURBINE AND FAN		1	2	3	4	5		6	7 8
WATER BOILER		1	2	3	4	5		6	7 8
HEAT EXCHANGER		1	2	3	4	5		6	7 8
FURNISHINGS	APPROX. 1 ITEM								
EJECTOR SEATS		1	2	3	4	5		6	7 8
INSTRUMENTS	APPROX. 19 ITEMS								
GAUGE, FUEL QUANTITY		1	2	3	4	5		6	7 8
ELECTRONICS									
SUSCEPTIFORMER MK 1 ONLY		1	2	3	4	5			
LANDING GEAR	APPROX. 8 ITEMS								
MAIN GEAR		1	2	3	4	5		6	7 8
NOSE GEAR		1	2	3	4	5		6	7 8
OXYGEN REGULATOR		1	2	3	4	5			

ACTUAL ITEMS RECEIVED _____
 REQUIREMENT SCHEDULE -1-2-
 PROMISED DATES FOR 1ST A/C
 OLD REVISED

REPORTING DATE

GOVERNMENT FURNISHED EQUIPMENT - PAGE 1

DESCRIPTION	PER MONTH	1	1	1	1	1	1	1
AIRCRAFT ACCEPTANCES	CUMULATIVE TOTAL	1	3	5	6	7	8	
AIRCRAFT COMPLETIONS	PER MONTH	1	1	1	1	1	1	
	CUMULATIVE TOTAL	1	3	5	6	7	8	
J.4 COMPASS								
SERVO AMPLIFIER		1	2	3	4	5	6	7 8
CONTROLLER		1	2	3	4	5	6	7 8
COMPENSATOR		1	2	3	4	5		
TRANSMITTER REMOTE COMPASS		1	2	3	4	5	6	7 8
DIRECTIONAL GYRO								
INSTRUMENTS								
AIRSPED INDICATOR			1	2	3	4	5	6 7 8
ALTIMETER								
8 DAY CLOCK		1	2	3	4	5	6	7 8
RATE OF CLIMB INDICATOR								
ARTIFICIAL HORIZON		1	2	3	4	5	6	7 8
ACCELEROMETER								
CABIN PRESSURE INDICATOR		1	2	3	4	5		
TURN & BANK INDICATOR								
MAGNETIC COMPASS		1	2	3	4	5	6	7 8
POWER PLANT		1	2	3	4	5	6	7 8
J75 PROTOTYPE ENGINES	(2 SETS FOR 1ST A/C)							
J75 PRODUCTION ENGINES	(2nd, 3rd, 4th & 5th A/C)							
IROQUOIS ENGINES (6th, 7th & 8th A/C)		1	2	3	4	5	6	7 8
ELECTRONICS FOR MK 1 A/C		1	2	3	4	5	6	7 8
TRANSPONDER A P X		1	2	3	4	5	6	7 8
CONTROL RADAR A P X								
MOUNTING TRANSPONDER A P X							6	7 8
LOOP CABLE A R N-6								
RECEIVER A R N-6								
MTG. RECEIVER A R N-6								
AMPLIFIER A R A-25								
RELAY A R A-25								
MOUNTING AMPLIFIER A R A-25								
MOUNTING RELAY A R A-25								
ANTENNA A R A-25								
TRANSMITTER RECEIVER A R C-34								
CONTROL A R C-34								
REPORTING DATE								

ACTUAL ITEMS RECEIVED _____
 REQUIREMENT SCHEDULE -1-2-
 PROMISED DATES FOR 1ST A/C
 OLD  REVISED 

GOVERNMENT FURNISHED EQUIPMENT — PAGE 2

DESCRIPTION					
MOUNTING TRANSCEIVER ARC-34	1	2	3	4	5
CONTROL PANEL AIC-10	1	2	3	4	5
RELAY ASSEMBLY AIC-10	1	2	3	4	5
DYNAMOTOR AIC-10					
MOUNTING DYNAMOTOR AIC-10					
INDICATOR RADIO COURSE	1	2	3	4	5
ELECTRONICS FOR MK2 A/C					
ASTRA					
R—THETA					
R-Θ. COMPUTER	1	2	3	4	5
G.S.I. COMPUTER	1	2	3	4	5
INTEGRATOR	1	2	3	4	5
MOUNTING	1	2	3	4	5

NO LONGER REQUIRED

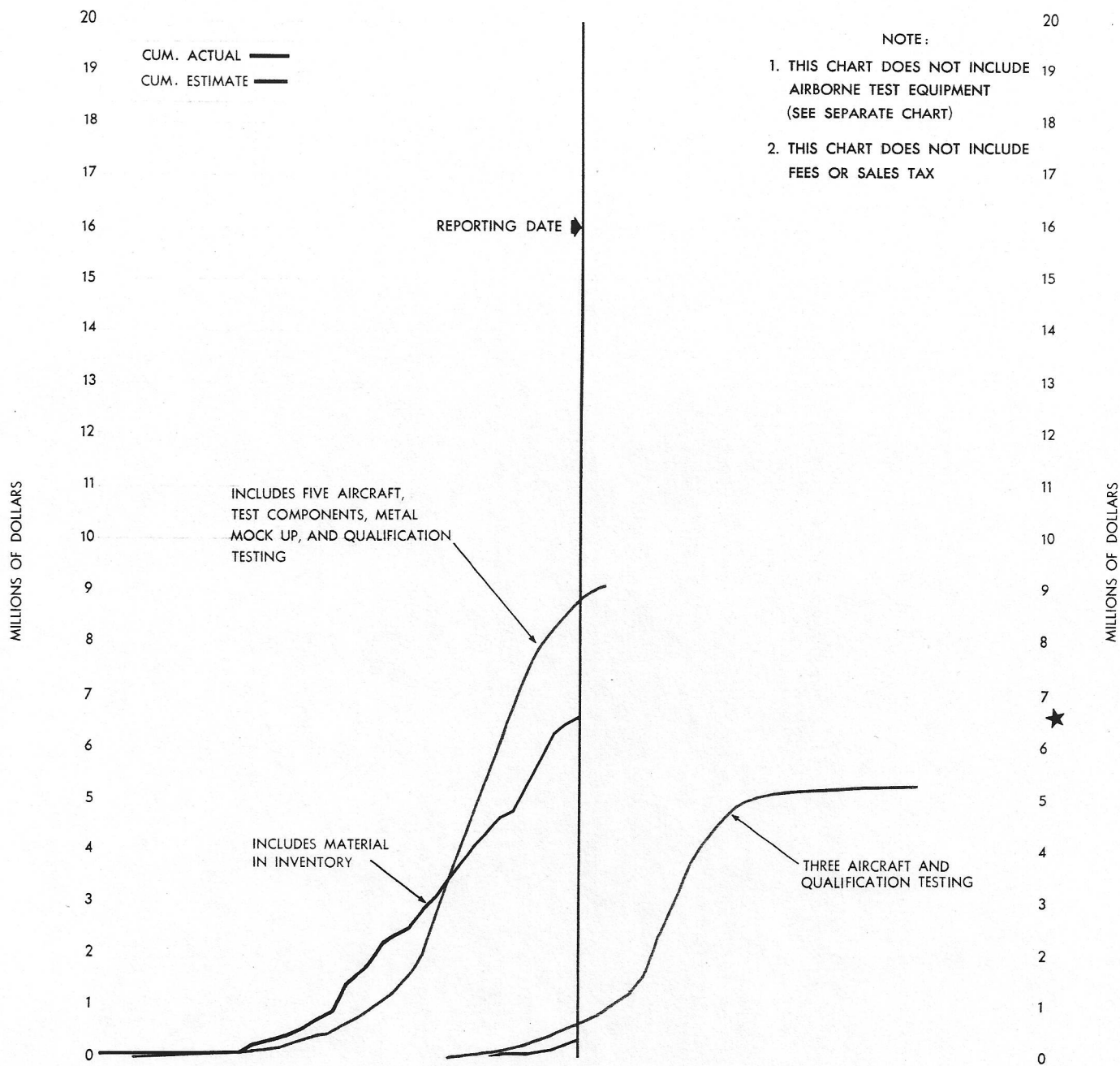
NO LONGER REQUIRED

6 7 8

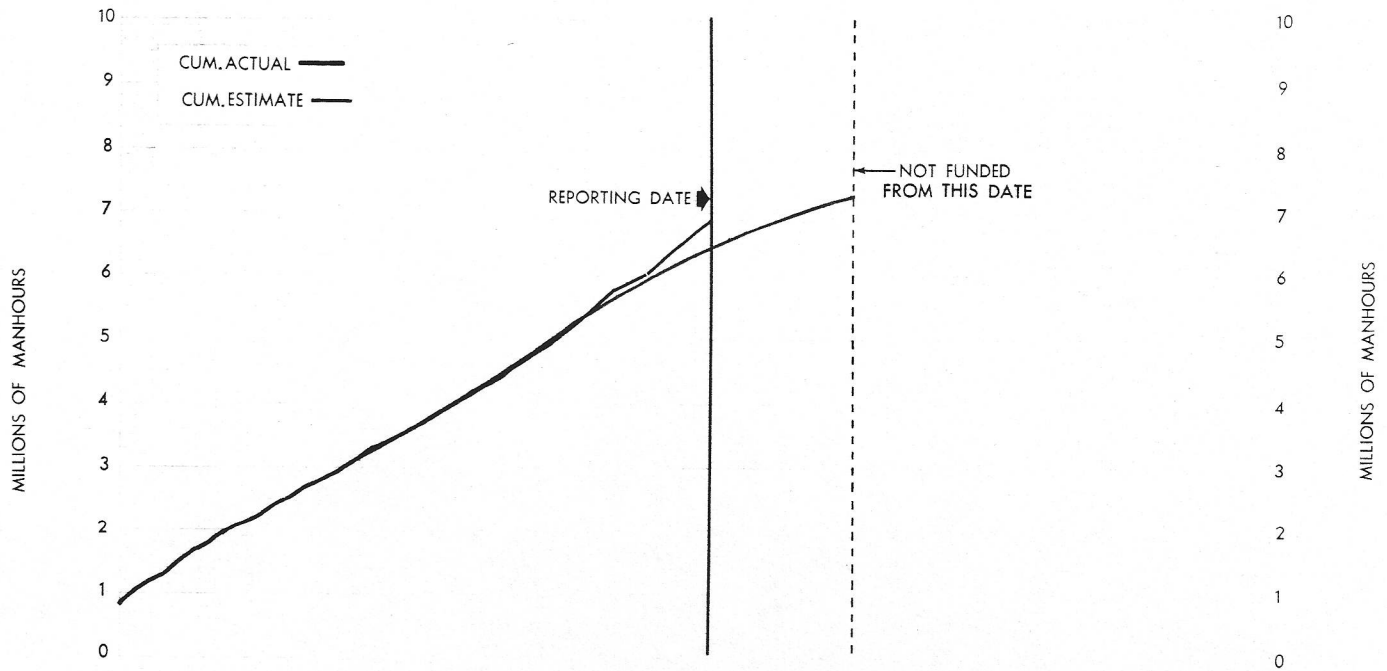
ACTUAL ITEMS RECEIVED _____
 REQUIREMENT SCHEDULE -1-2-
 PROMISED DATES FOR 1ST A/C
 OLD ⇐ REVISED ⇒

REPORTING DATE ▸

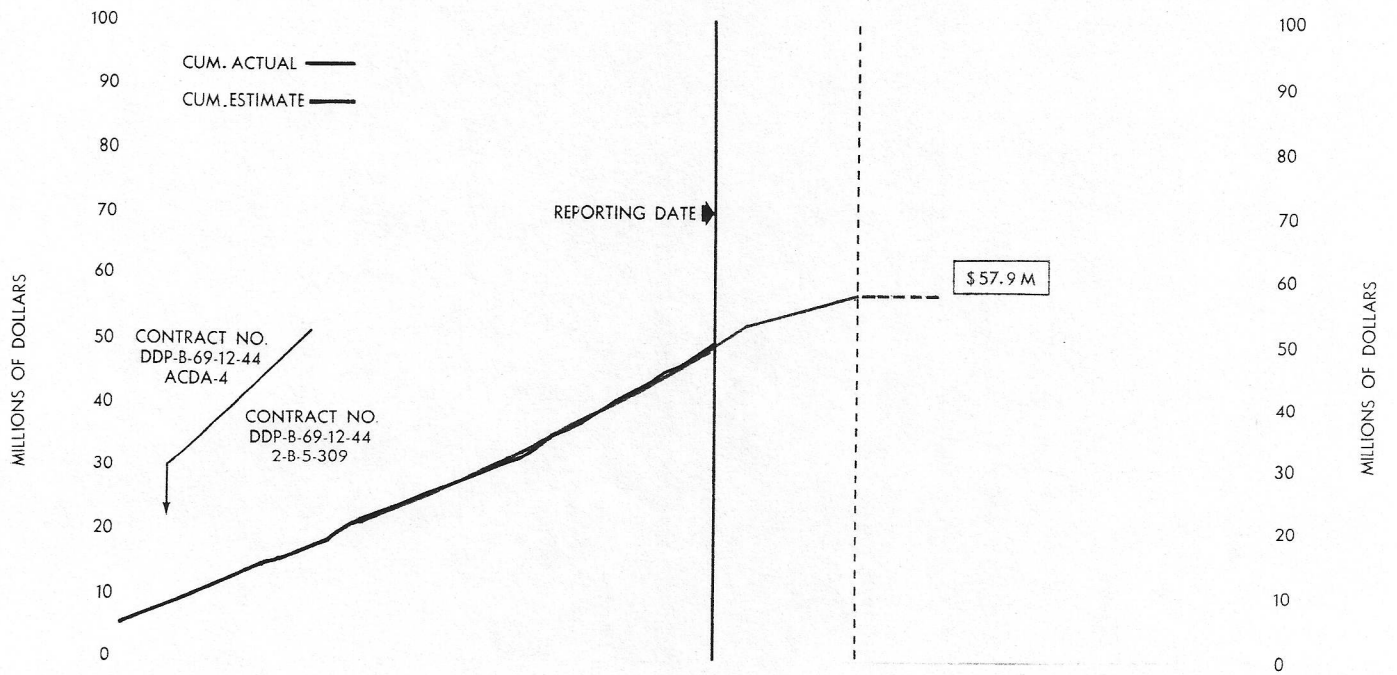
PRODUCTION MATERIAL DOLLARS



ENGINEERING



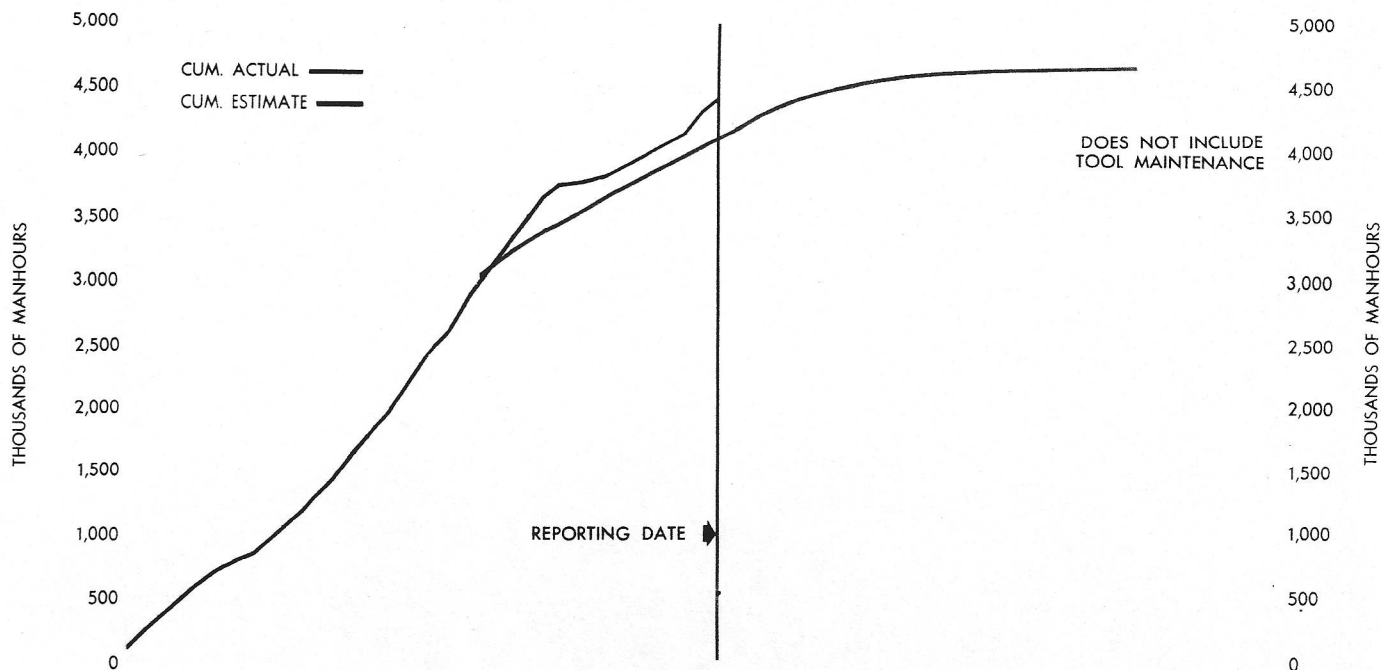
MANHOURLY EXPENDITURES



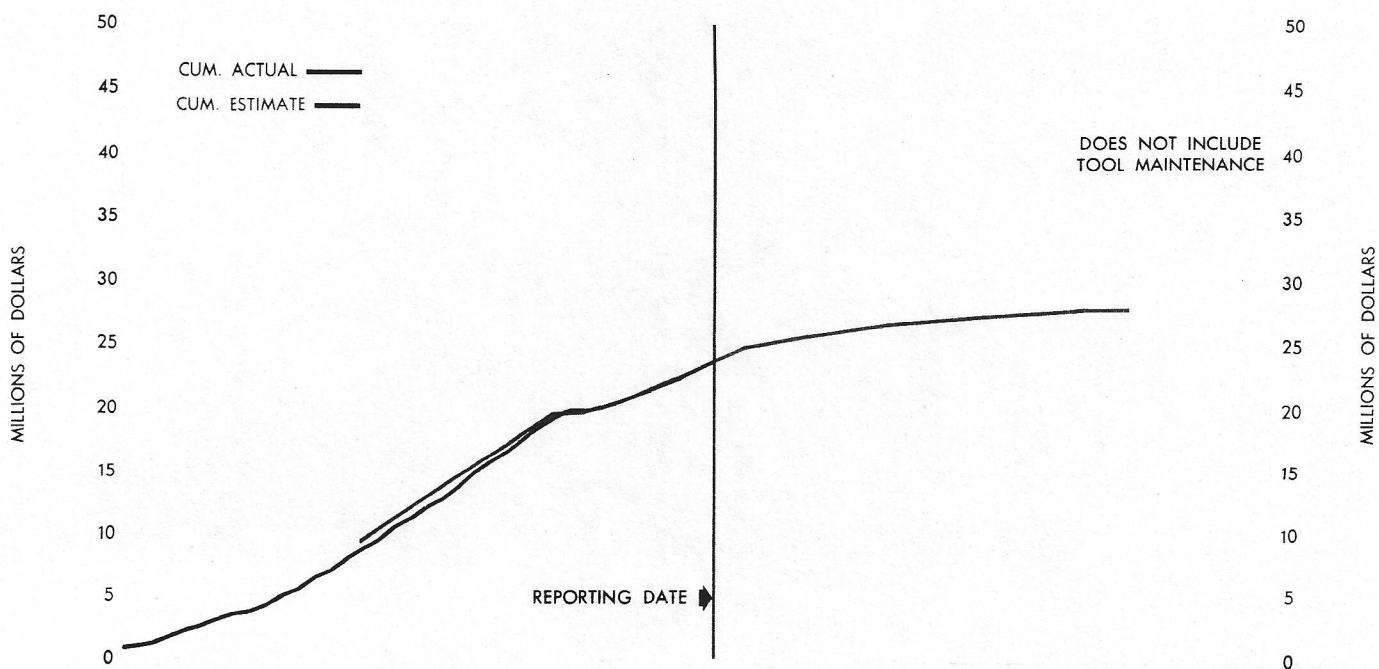
105-MPR63-7

DOLLAR EXPENDITURES

TOOLING



MANHOUR EXPENDITURES

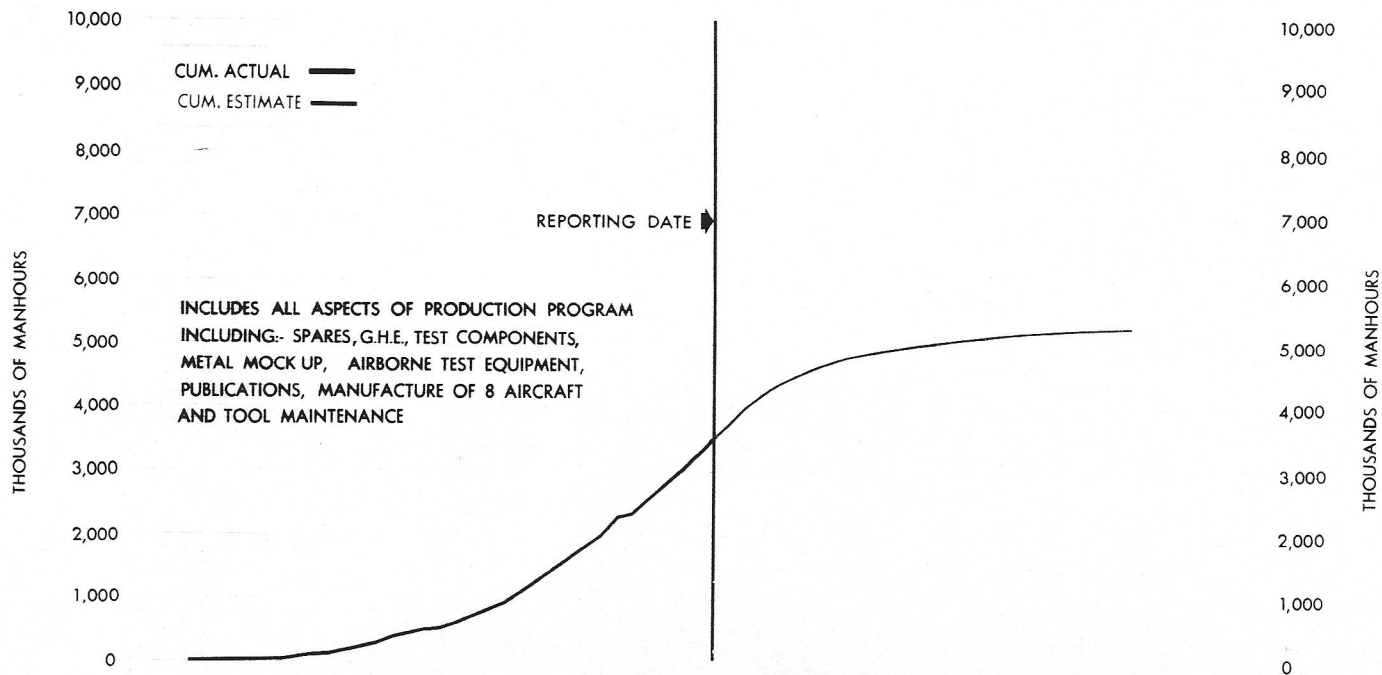


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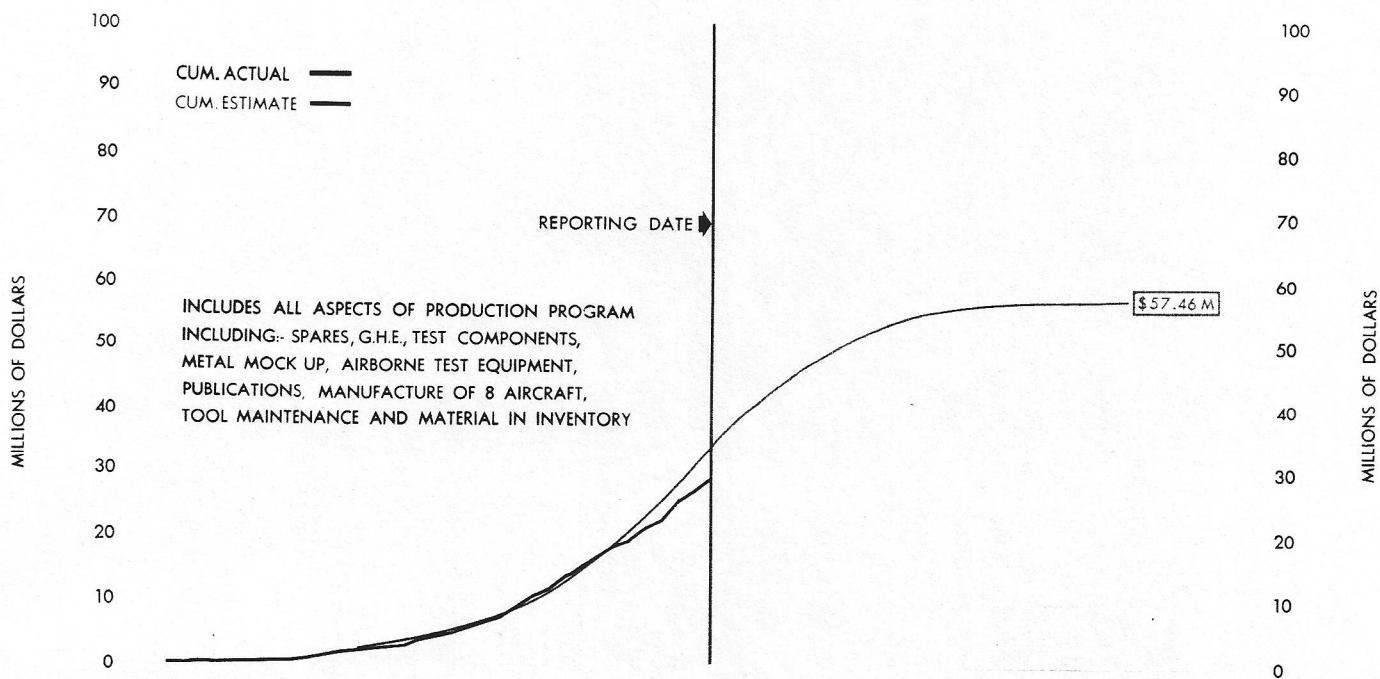
DOLLAR EXPENDITURES



PRODUCTION



MANHOUR EXPENDITURES



105-MPR65-7

DOLLAR EXPENDITURES