

47

AL 60-0000 25514

# **HISTORICAL EVALUATION**

DOWNGRADED AT 12 YEAR  
INTERVALS; NOT AUTOMATICALLY;  
DECLASSIFIED. DOD DIR 5200.10

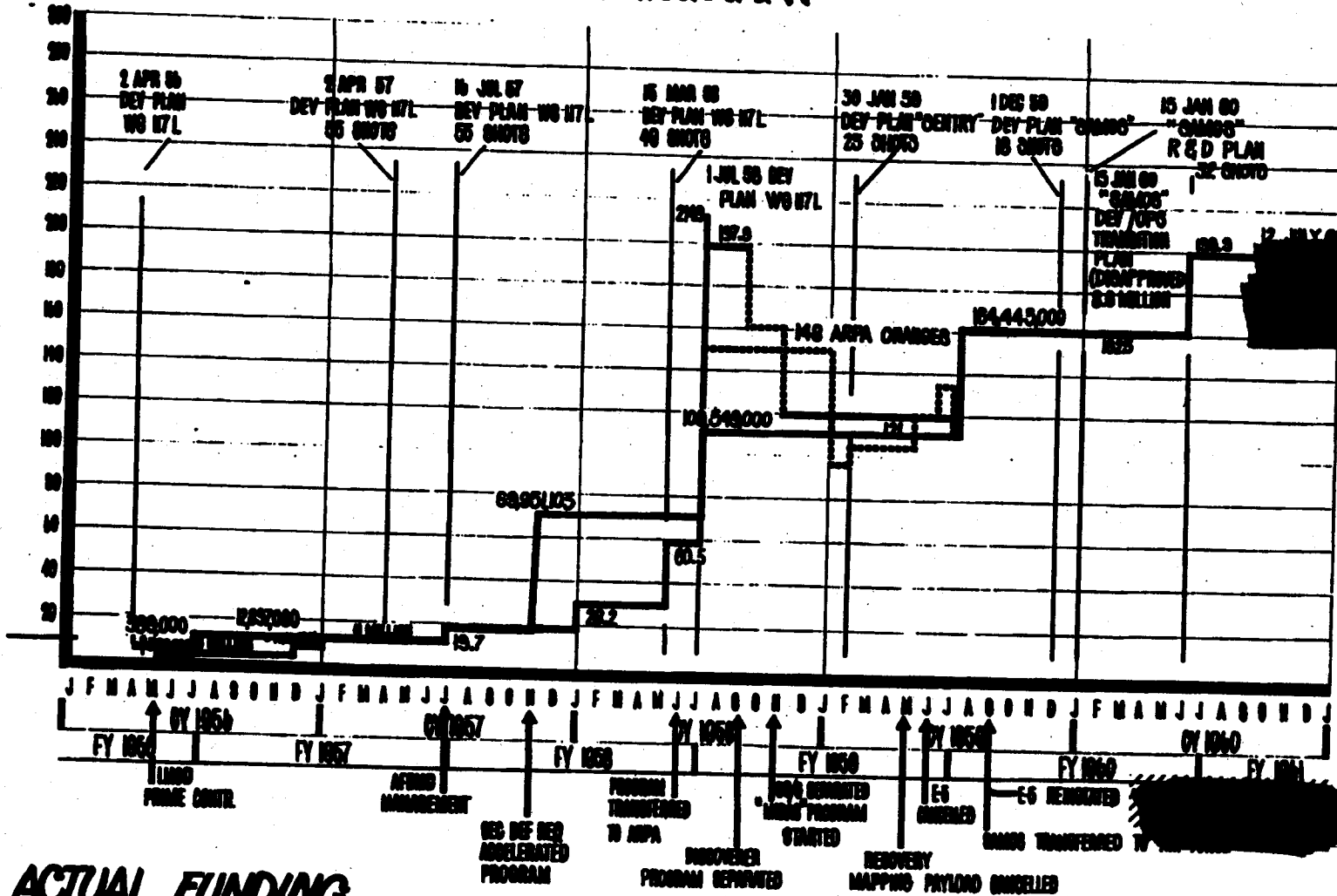
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# FUNDING SUMMARY

FUNDING REQUESTED BY DEV PLANS

12.4 MILLION '46 TO '50 RAND STUDIES 6-100AF EVALUATION



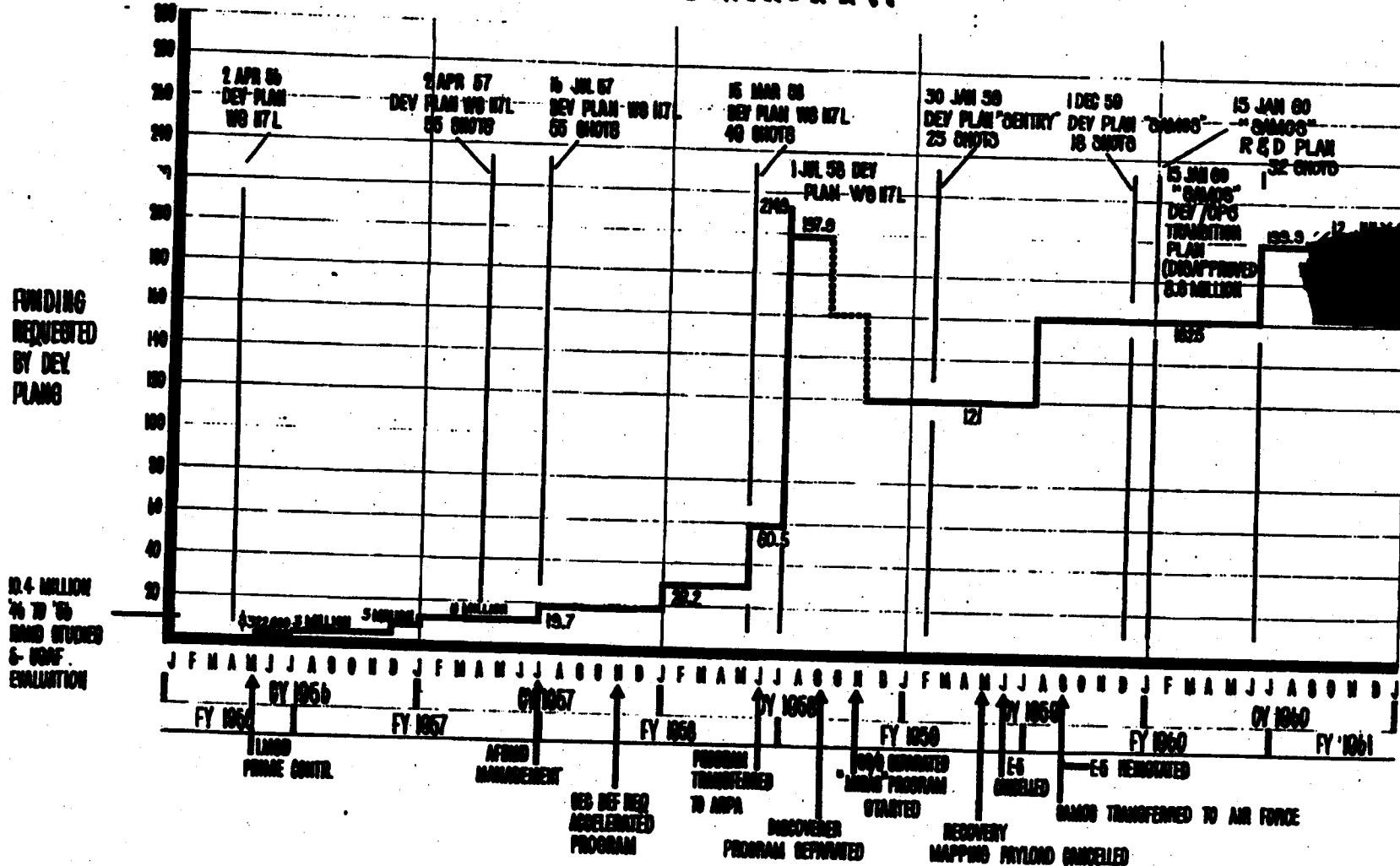
ACTUAL FUNDING

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# FUNDING SUMMARY



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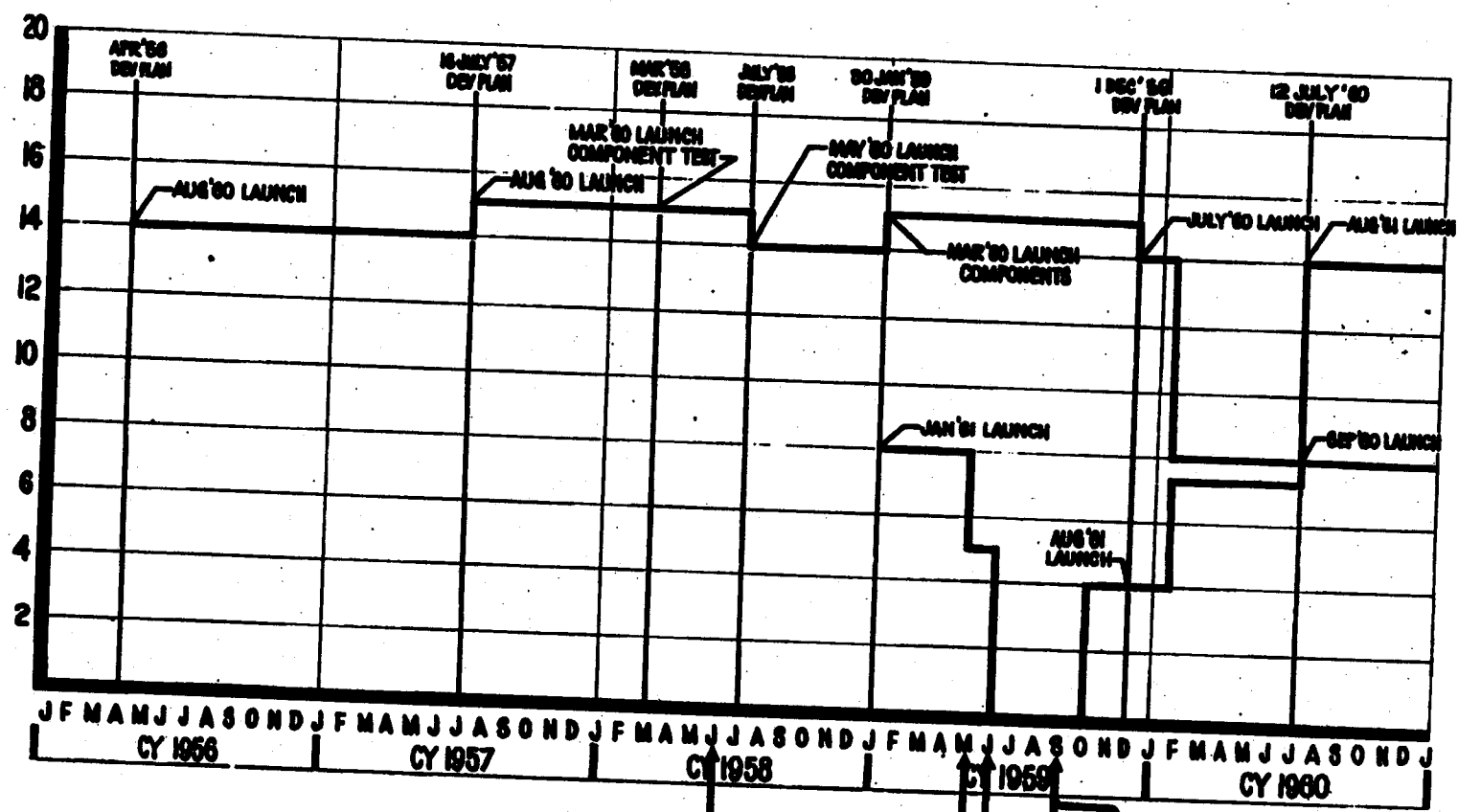
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# READOUT VS RECOVERY

NUMBER OF EACH PAYLOAD



— PHOTO READOUT  
 - - - PHOTO RECOVERY

PROGRAM TRANSFERRED TO ARPA

RECOVERY MAPPING PAYLOAD CANCELLED

SAMMS TRANSFERRED TO USF

E-5 CANCELLED

E-5 REINSTATED

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# ***PROGRAM STATUS***

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# **PROBLEMS**

- **LABOR STRIKE**
- **CHANGING REQUIREMENTS**
- **TECHNICAL COMPLEXITIES**
- **CAPABILITY LIMITS**

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## **OBSERVATIONS-PRESENT PROGRAM**

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1. PROCEEDING IN ACCORDANCE WITH 15 JAN '60 DEVELOPMENT PLAN  
AS APPROVED BY USAF & DOD
2. WITHIN COST ESTIMATES
3. REASONABLE DEVIATIONS FROM SCHEDULE
4. BASICALLY SOUND-CAN BE AUGMENTED READILY

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**GUIDANCE  
FOR  
12 JULY '60  
DEVELOPMENT PLAN**

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**SAMOS**

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1 JUNE 60 GUIDANCE (GEN WILSON LTR)

AF UNDER SECRETARY DIRECTS RE-EVALUATION OF R&D EXPLOITATION  
AND OPERATIONAL PLANS —

"WHY"

- A. CONSIDERABLE TECHNICAL UNCERTAINTY AS TO CHARACTER AND  
QUALITY OF INFORMATION THAT MAY BE OBTAINED BY THE  
DIFFERENT PAYLOADS
- B. CHARACTER OF THE INITIAL OPERATIONAL PROGRAMS WILL BE  
STRONGLY CONDITIONED BY R&D RESULTS

REVISED SAMOS DEV. PLAN REQUIRED ASAP

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INTERVALS, NOT AUI  
DECLASSIFIED. DOD DIR 52.112

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# **GROUND RULES FOR DEV PLAN REVISION**

**1 JUNE 60, GEN WILSON LTR**

- A. PARALLEL R&D TESTS OF READOUT AND RECOVERY**
  - RE-EXAMINE ALL APPLICABLE CAMERA EQUIPMENT AND MAKE RECOMMENDATIONS FOR INTRODUCTION OF AN ADDITIONAL RECOVERABLE PAYLOAD DEVELOPMENT**
  
- B. ACHIEVE EARLIEST FLIGHT DATES FOR THE DIFFERENT PAYLOADS WITH PRIORITIES**
  - PHOTO RECOVERY**
  - PHOTO READOUT**
  - FERRET**
  
- C. MAKE PROVISIONS FOR "MINIMUM ESSENTIAL CAPABILITY" TO HANDLE ANY R&D "TAKE"**
  
- D. CONSIDER EFFECT ON MIDAS PROGRAM**

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# **OTHER "KNOWN" GUIDANCE**

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1. DD/R&E STUDY - DR. BILLINGS
2. CONGRESSIONAL ACTION TO PROVIDE ADDITIONAL FUNDS  
TO SUPPLEMENT SAMOS PROGRAM
3. PRESIDENTIAL CONCERN
4. USIB REQUIREMENTS 5 JUL '60

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# **PERTINENT COMMENTS FROM DD/R&E STUDY**

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1. THERE IS A NEED FOR COMPLETE COVERAGE (EURASIAN MASS) EVERY SIX MONTHS, AT E-2 RESOLUTION
2. REQMTS CAN BE BETTER SATISFIED WITH A SIMPLER RECOVERY SYSTEM. ULTIMATE OPERATIONAL SYSTEM SHOULD CONSIST OF RECOVERY PACKAGES ONLY -
  - HIGHER RESOLUTION E-5 MIGHT OBTAIN PHOTOS OVER SPECIFIED AREAS WHEN NEEDED
3. A COMPLETE E-2 SYSTEM, OF MANY SATELLITES PROVIDES COMPETITION ONLY IF ONE NEGLECTS COST, COMPLEXITY, & FLEXIBILITY
  - FEASIBILITY OF AIMING (OBLIQUITY)
  - DATA LINK LIMITATIONS
  - WEATHER PROBLEM
  - ARCTIC NIGHT
4. PROCESSING OF PHOTOS SHOULD BE CARRIED ON THROUGH SAME ORGANIZATIONAL SYSTEM EMPLOYED TODAY
  - MUCH LESS EXPENSIVE
  - HIGHER INTELLIGENCE VALUE
  - FLEXIBLE
5. AS PRESENTLY CONCEIVED JAMOS IS PRIMARILY A PRE-STRIKE DEVICE & SHOULD PROBABLY BE ASSIGNED TO A JOINT INTELLIGENCE CENTER-OUTPUT TO ALL CONSUMERS
6. DETERMINE POST-STRIKE REQMTS

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# U.S.I.B. REQUIREMENTS

1. "SEARCH" RESOLUTION GROSS AREA COVERAGE.  
20'/SIDE RESOLUTION
2. HI-RESOLUTION EXAMINATION OF SUSPECT AREAS.  
5'/SIDE RESOLUTION
3. RECOVERY OF RECORDS PREFERABLE.
4. ACCELERATED STATE-OF-ART PROGRAM  
1'/SIDE RESOLUTION
5. CONTINUED DEVELOPMENT TOWARD OPTIMUM  
FERRET SYSTEM.

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## *THE PROBLEM*

TO FORMULATE A REVISED SAMOS DEVELOPMENT PLAN WHICH WILL CONCENTRATE ON RESOLVING TECHNICAL UNCERTAINTIES, STRENGTHENING DEVELOPMENT EFFORTS IN AREAS WHICH WILL LEAD INTO OPTIMUM COVERAGE SYSTEMS, AND POSTPONING EMPLOYMENT DECISIONS UNTIL TECHNICAL RESULTS WILL ALLOW A LOGICAL EMPLOYMENT DECISION.

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**SEQUENCE  
OF  
RECENT EVENTS**



**SEQUENCE OF RECENT EVENTS (CONT'D)**  
**PRESENTATIONS**

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- A.R.D.C. \_\_\_\_\_ 5 JULY
- SENIOR AIR STAFF & SAFUS \_\_\_\_\_ 5 JULY
- WORKING GROUPS, WEAPONS BOARD \_\_\_\_\_ 6-7 JULY
- WEAPONS BOARD \_\_\_\_\_ 8 JULY
- A.F.B.M.C. \_\_\_\_\_ 15 JULY 60
- DEPT. OF DEFENSE \_\_\_\_\_ 18 JULY 60
- STAFF ELEMENTS \_\_\_\_\_ 19 JULY 60

**RESULTS  
OF  
BRIEFINGS**

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**SAFUS DIRECTION**  
(AFOSD-AT-70886) 20 JULY 60

- DO NOT PLAN THOR/SERGEANT LAUNCHES.
- ASSURE NEW RECOVERY PROGRAM IS MOST ADVANCED STATE OF ART WILL PERMIT WITH HIGHEST RESOLUTION POSSIBLE.  
CONSIDER EARLIEST FLIGHTS FOR THIS SYSTEM IN LIEU OF E2 OR F2
- ANTICIPATE IMMEDIATE APPROVAL OF NEW 3 PAD PT. ARGUELLO (ATLAS) COMPLEX.
- PLAN FOR THOR/AGENA AND TITAN LAUNCHES FOR COMPONENT TESTS WHERE POSSIBLE.
- EXAMINE AMR LAUNCH POSSIBILITIES.

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## **SAFUS DIRECTION**

- PROTECT SCHEDULES (PENDING APPROVAL BY DD/RE) TO ASSURE EARLIEST AVAILABILITY OF NEW PAYLOADS. INCLUDES INITIATION OF SOURCE SELECTION ACTION.
- STUDY IMPACT OF PROGRAM REVISION ON BOOSTER SCHEDULES ; PRESENT RESULTS TO AFBMC ASAP
- PT. ARGUELLO COMPLEX WILL BE SUBJECT OF SEPARATE ACTION.

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## **SAFUS DIRECTION**

**AFSD-AT 71953 23 JULY 60**

- **REVISE 12 JULY DEVELOPMENT PLAN AS FOLLOWS**  
**NEW LAUNCH SCHEDULE TO INCLUDE: 3 E-1/F-1,**  
**3 E-2, 2 F-2, 2 E-5 (DIAG), 7 E-5, 7 E-6 & 2 E-6 (DIAG)**  
  
**INCLUDE 5 UNASSIGNED ATLAS/AGENA**  
**(2 RESERVED FOR E-6 IF REQUIRED)**  
  
**BUY A TOTAL OF 4 F-2 & 5 E-2 PAYLOADS**
- **INITIATE NEW RECOVERABLE PAYLOAD AND RECOVERY**  
**SYSTEM IMMEDIATELY.**
- **PROVIDE FLEXIBLE PAYLOAD CAPABILITY TO EXPLOIT**  
**EARLY SUCCESS.**

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## ***SAFUS DIRECTION (CONT'D)***

- **USE THOR/AGENA'S BOOST FOR RECOVERY PROGRAM DEVELOPMENT OR COMPONENT TESTS**
  
- **NO SOLID ROCKET BOOST**
  
- **MAKE MAXIMUM USE OF A.M.R.**
  
- **EXCLUDE SS/I (TO BE ADDED IN ANNEX WHEN GUIDANCE PERMITS)**

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## **ARDC GUIDANCE**

**RDRB 22-7-77 22 JULY 60**

- 1 TAKE NECESSARY ACTION TO COMPLY WITH AFDSO-AT 70836
- 2 ADVISE RDRB OF ESTIMATED DATE FOR AFBMC PRESENTATION REFERENCED PARA 3.

**RDG 25-7-27 25 JULY 60 (PERSONAL GEN SCHRIEVER TO GEN RITLAND)**

1. CERTAIN RECOVERY AND PHOTO SYSTEMS WILL BE EXPANDED.
2. ACCELERATION WILL BE DIRECTED.
3. MOST IMPORTANT - RELIABLE RECOVERY SYSTEM.
  - (a) BRING ALL POSSIBLE RESOURCES TOGETHER - ARDC & OTHERS.
  - (b) ADEQUATE PROGRAM SHOULD HAVE:
    - (1) DISCOVERER
    - (2) CURRENT SAMOS E-5
    - (3) COMPETITIVE SAMOS (ATLAS)
    - (4) FASTEST POSSIBLE SYSTEM RELATED TO BUT SEPARATE FROM

(1) (2) (3)

(EXAMPLE - AVCO DRAG BRAKE)

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## **ARDC GUIDANCE (CONT'D)**

**RDG 25-7-27-E 25 JUL 60 (CONT'D)**

- 4 PROPER MANAGEMENT AND TECHNICAL CONTROL**
  - (a) CENTRALIZED CONTROL.**
  - (b) OUTSTANDING TECHNICAL PERSONNEL IN ADEQUATE NUMBERS**
  - (c) IMMEDIATE AND EXTRAORDINARY ACTION.**
  - (d) AEROSPACE**

**RDRB 26-7-102 26 JUL 60**

- 1. REF: AFDSD-AT-71953, DIRECTED TO COMPLY.**
- 2. FURTHER DIRECTION WILL BE FORWARDED AS KNOWN**

**RDRB 26-7-105 26 JUL 60**

**DIRECT A STUDY OF AMR TO DETERMINE FEASIBILITY OF LAUNCHING ATLAS/AGENA INTO POLAR ORBITS**

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~~SECRET~~**ARDC GUIDANCE (CONT'D)****RDRB-2-8-10 2 AUG 60**

**MANAGEMENT RESPONSIBILITY FOR SS/I PHASED OVER TO AFCGDD ASAP  
SS/I TO BE DISASSOCIATED FROM SAMOS**

**RDRB-2-8-12 2 AUG 60**

- 1. NEW RECOVERY SYSTEM SHALL CONSIDER USING ATLAS AND/OR OTHER BOOSTERS**
- 2. INCORPORATE NEW RECOVERY TECHNIQUES**
- 3. CONSIDER AVCO UMBRELLA CONCEPT AND OTHERS**
- 4. SCHEDULES & COSTS IN DEVELOPMENT PLAN WILL BE BASED ON OPTIMUM NO.  
OF TEST SYSTEMS**
- 5. LAUNCH OPERATIONS SHALL BE CARRIED OUT AT AMR**
- 6. NOTIFY RDRB AS TO DATE DEVELOPMENT PLAN AVAILABLE**

**VOGG:**

**DO NOT RELEASE REQUEST FOR PROPOSAL PRIOR TO 11 AUGUST 1960**

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# ARDC GUIDANCE (CONT'D)

RDRB-2-8-11 2 AUG 60

CMDR, ARDC INTENDS:

AFBMD WILL BE RESPONSIBLE FOR MANAGEMENT OF  
SATELLITE RECOVERY SYSTEMS

WADD WILL BE RESPONSIBLE FOR ALL CAMERA EQUIPMENT  
DEVELOPMENT IN SATELLITE SYSTEMS

AFBMD & WADD PREPARE JOINT BRIEFING ON TIMELY  
RESPONSIBILITY TRANSFER

TIME PHASING

PERSONNEL CONSIDERATIONS

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ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE BY A CONTROLLING AUTHORITY. DATE 08-14-2001 BY 60322 UCBAW/STW

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## ***PROGRESS REPORT***

- **ADDED TECHNICAL ASSURANCE  
AEROSPACE  
ARDC**
- **SOURCE SELECTION ACTIVITIES**
- **LAUNCH COMPLEXES  
PT. ARGUELLO #2  
THOR 75-1  
AMR**

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# **AEROSPACE**

## **TECHNICAL REVIEW PANEL**

- **REVIEW PRESENT USAF PROGRAMS**
- **STUDY AGREED UPON DOD PROGRAM FOR FUTURE**
- **REVIEW NATIONAL NEEDS**
- **RECOMMEND COMPLETELY INTEGRATED PROGRAM**

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**MID SEPTEMBER - MID OCTOBER SUPPORTED BY  
AEROSPACE TECHNICAL PEOPLE**

**ADVANCED TECHNICAL DEVELOPMENT PROGRAM -  
SURVEILLANCE AND RECCE**

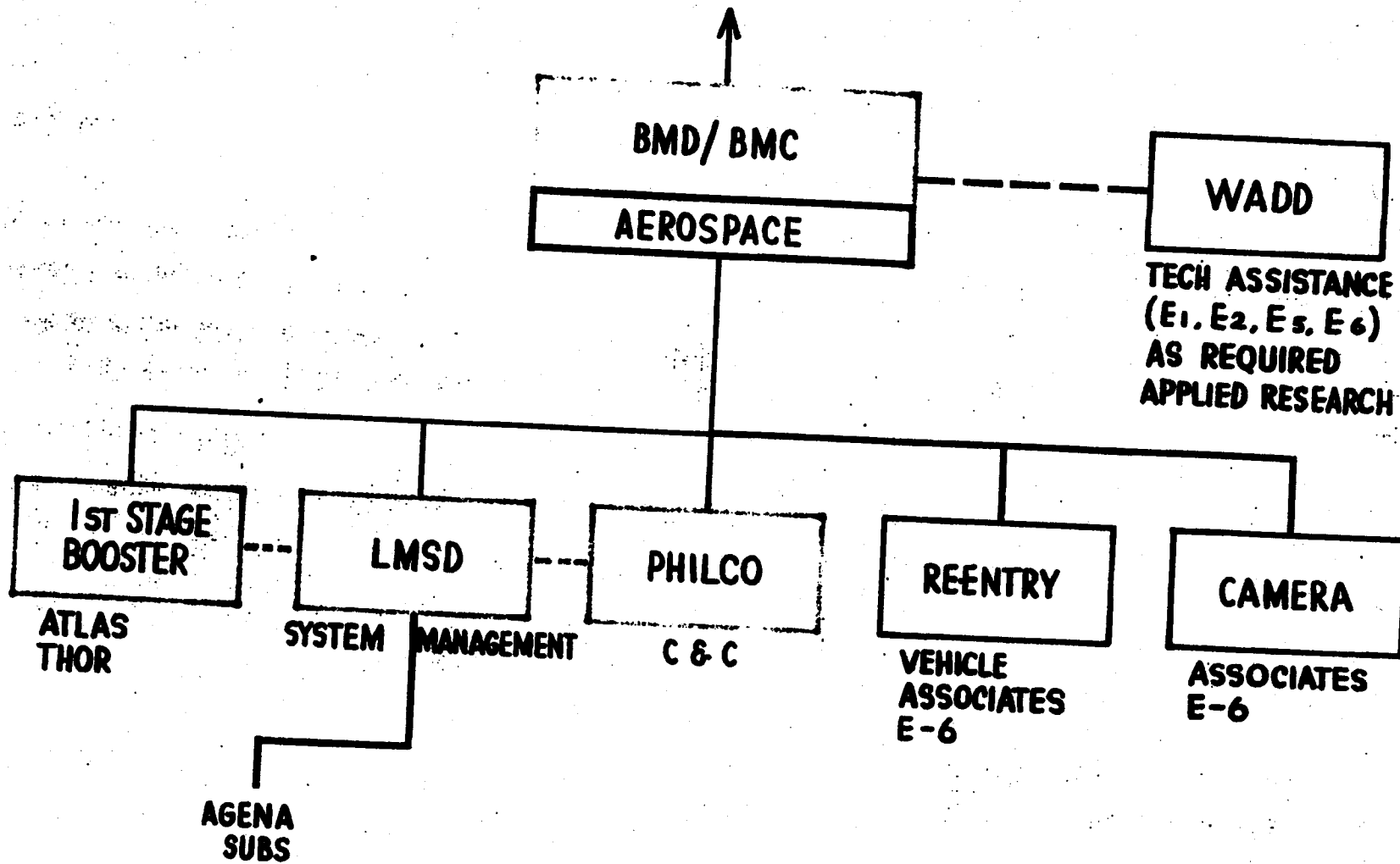
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- 1. WADD IS UNIQUELY QUALIFIED TO CONDUCT APPLIED RESEARCH  
IN RECONNAISSANCE AND SURVEILLANCE**
- 2. THE PROGRAM IS BEING FORMULATED NOW - BY WADD AND AFBMD**
- 3. PROGRAM WILL BE DONE BY WADD; AT WADD**
- 4. THIS DISCUSSION AREA SATISFACTORILY RESOLVED**

# **ADVANCED TECHNICAL AUGMENTATION PROGRAM**

AL 60 0000 25529

- **SENSORS AND STORAGE SYSTEMS :**
  - LENS AND MIRRORS**
  - ANTENNAS**
  - READOUT SYSTEMS**
- **STABILIZATION AND RECOVERY**
- **RELIABILITY**
- **RADAR CAMOUFLAGE**
- **TESTS:**
  - SPACE PROBES**
  - PHOTO PROCESSING AND REPRODUCTION**
  - RECON. SIMULATOR**
  - DYNAMIC ANALYZER**
- **OTHER STUDIES**
  - WEATHER**
  - RADIATION ENVIRONMENT**



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# **SOURCE SELECTION ACTIVITIES**

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- APPOINTMENT OF E-6 SAMOS SOURCE SELECTION BOARD.
- BOARD ORGANIZATION AND ORIENTATION.
- CURRENT BOARD ACTIONS (27 JULY THRU 5 AUG.)
  - DEVELOPED GENERAL CRITERIA TO SELECT BIDDERS.
  - DEVELOP SPECIFIC CRITERIA TO SELECT BIDDERS.
  - APPLY CRITERIA AND DETERMINE LIST OF SELECTED BIDDERS.
  - APPROVE WORK STATEMENT AND REQUEST PROPOSAL.
- FUTURE BOARD ACTIONS
  - DEVELOP CRITERIA FOR EVALUATING PROPOSALS (17-18 AUG.)
  - EVALUATE PROPOSALS AND MAKE RECOMMENDATIONS. (13-20 SEPT)

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# **PT ARGUELLO LAUNCH COMPLEX #2**

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- **CONFERENCES TO FINALIZE SITING (AFBMD AND PMR)**
- **B.O.D. 18 MO'S., 1<sup>ST</sup> LAUNCH O/A OCT 62**
- **BLOCKHOUSE + 3 PADS**
- **FUNDING APPROVED**

# THOR 75-1

1. COST ESTIMATES TO ARDC - 15 JULY 60
2. LMSD - DAC INFORMALLY REQUESTED TO PROCEED - 22 JULY 60
3. NOTIFICATION OF PROCUREMENT AUTHORITY ACTION - 2 AUG 60
4. DEFINITIZED WORK STATEMENT APPROVAL - 17 AUG 60
5. FIRST LAUNCH CAPABILITY 15 MAY 61
6. COST 

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# AMR

- UTILIZATION REVIEW

1. PAD 12:

AUG.-SEPT. '61 - UNASSIGNED  
DEC. '61 ADVENT  
FEB. '62 ADVENT  
PECULIAR PAYLOAD EQUIP. RQD.

2. PAD 13:

REQUIRES REMOD. TO ATLAS "D" CONFIG.  
REQUIRES MOD:

COMPLETE GSE [REDACTED] APRIL '62  
LASHUP GSE [REDACTED] MID '61

3. PAD 14

MERCURY

## **AMR (CONT'D)**

- **CAPABILITY STUDY:(COMPLETION O/A 18 SEPT '60)**
  - **POLAR ORBIT CONSIDERATIONS**
  - **RANGE SAFETY CONSIDERATIONS**
  - **RECOVERY FEASIBILITY**
  
- **PLAN:**
  - **SCHEDULE 3 REMAINING UNASSIGNED ATLAS/AGENA LAUNCHES FROM PAD 12**
  
  - **DETERMINE POSSIBILITY OF TRANSFERRING OTHER SCHEDULED PT. ARGUELLO LAUNCHES TO AMR BASED ON EVALUATION OF THE JOINT AMR-BMD STUDY**

**PROGRAM COMPARISON**

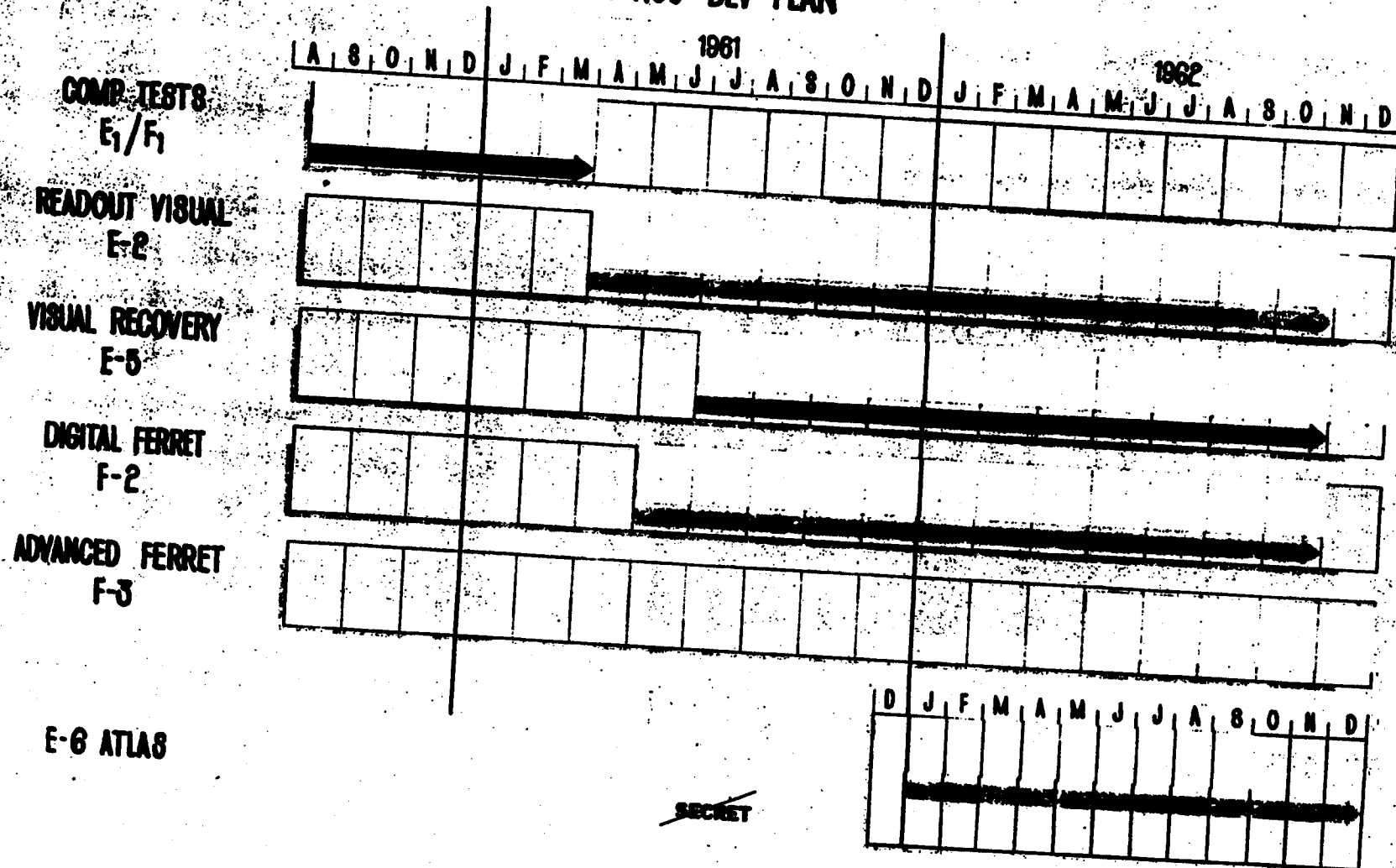
15 JAN 60	12 JULY 60	11 AUG 60
3 E-1/F-1	3 E-1 OR E-1/F-1	3 E-1/F-1
8 E-2	5 E-2	3 E-2 (BUY 5)
3 F-3	3 F-2	2 F-2 (BUY 4)
4 F-2	7 E-5	7 E-5
7 E-5	2 E-5 (DIAG)	2 E-5 (DIAG)
	8 E-6	7 E-6
	2 E-6 (DIAG)	2 E-6 (DIAG)
<hr/> TOTAL 25	<hr/> 30	<hr/> 26
	PLUS: 5 ATLAS/AGENA (UNASSIGNED)	PLUS: 5 THOR/AGENA 3 ATLAS/AGENA (UNASSIGNED)

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# SAMOS LAUNCH SCHEDULE REVISIONS

## 11 AUG DEV PLAN



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# SAMOS LAUNCH SCHEDULE REVISIONS

11 AUG DEV PLAN

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COMP TESTS  
E<sub>1</sub>/F<sub>1</sub>

READOUT VISUAL  
E-2

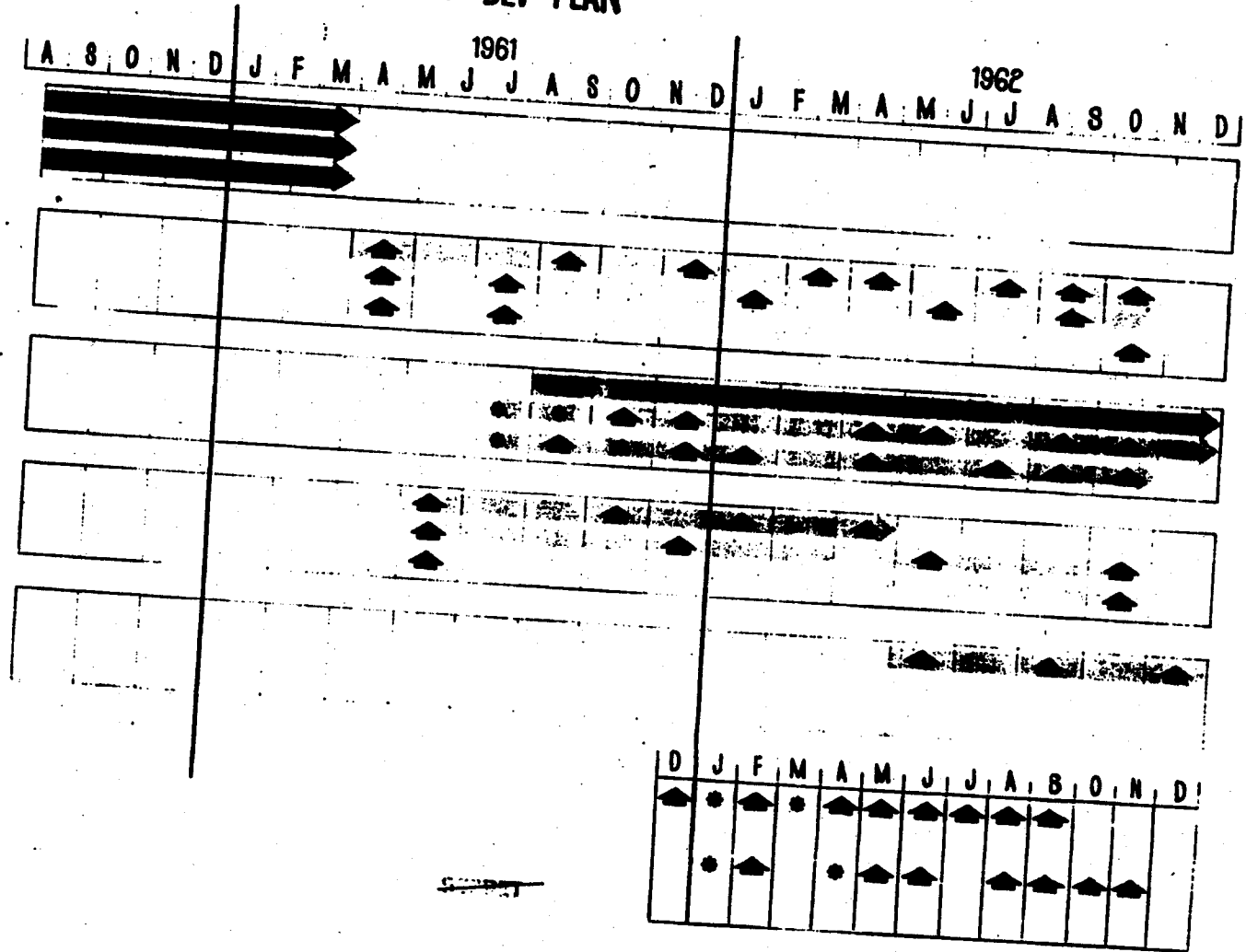
VISUAL RECOVERY  
E-5

DIGITAL FERRET  
F-2

ADVANCED FERRET  
F-3

E-6 THOR BOLD

E-6 ATLAS



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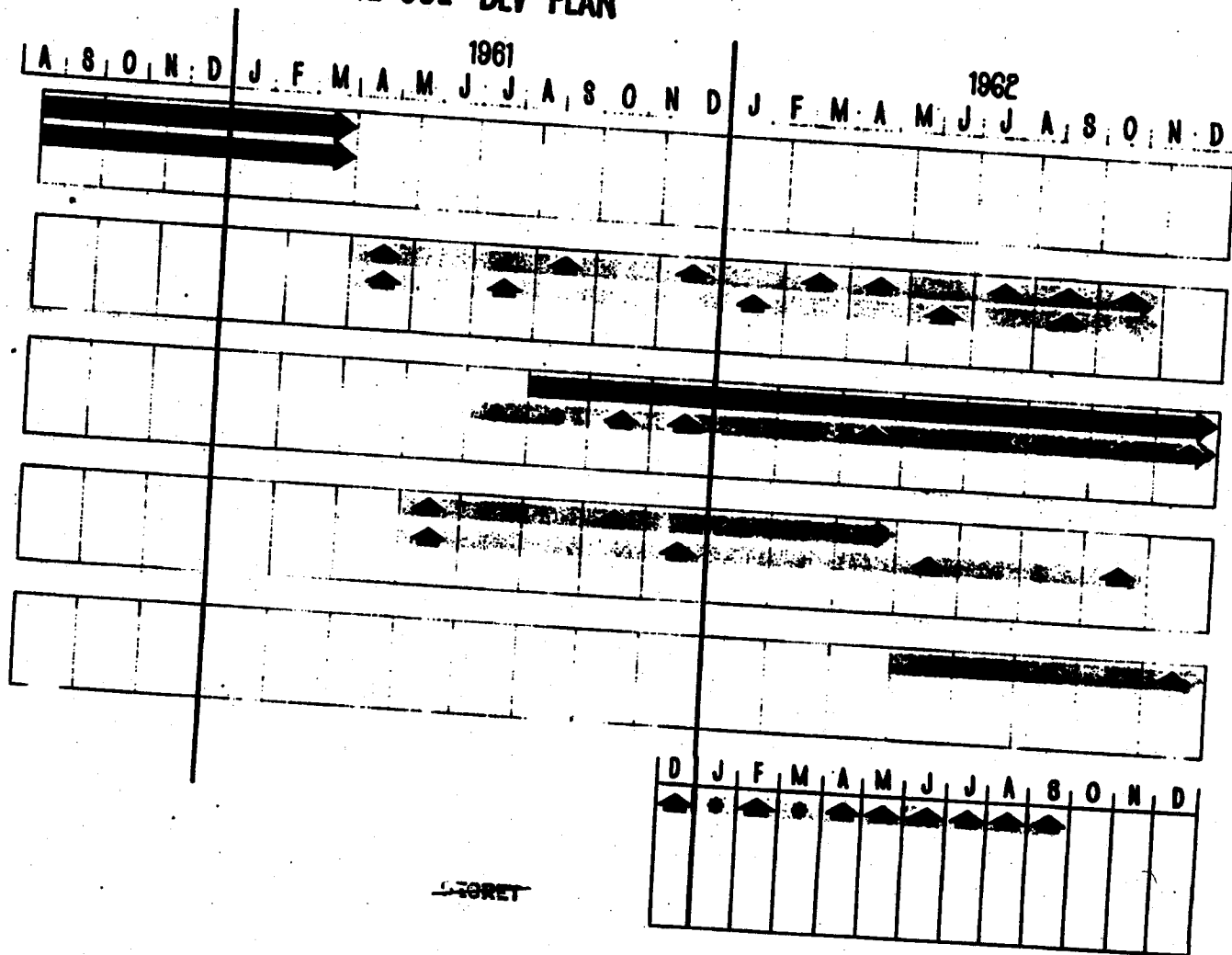
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# SAMOS LAUNCH SCHEDULE REVISIONS

## 12 JUL DEV PLAN

- COMP TESTS  
E<sub>1</sub>/F<sub>1</sub>
- READOUT VISUAL  
E-2
- VISUAL RECOVERY  
E-5
- DIGITAL FERRET  
F-2
- ADVANCED FERRET  
F-3
- E-6 THOR SOLID



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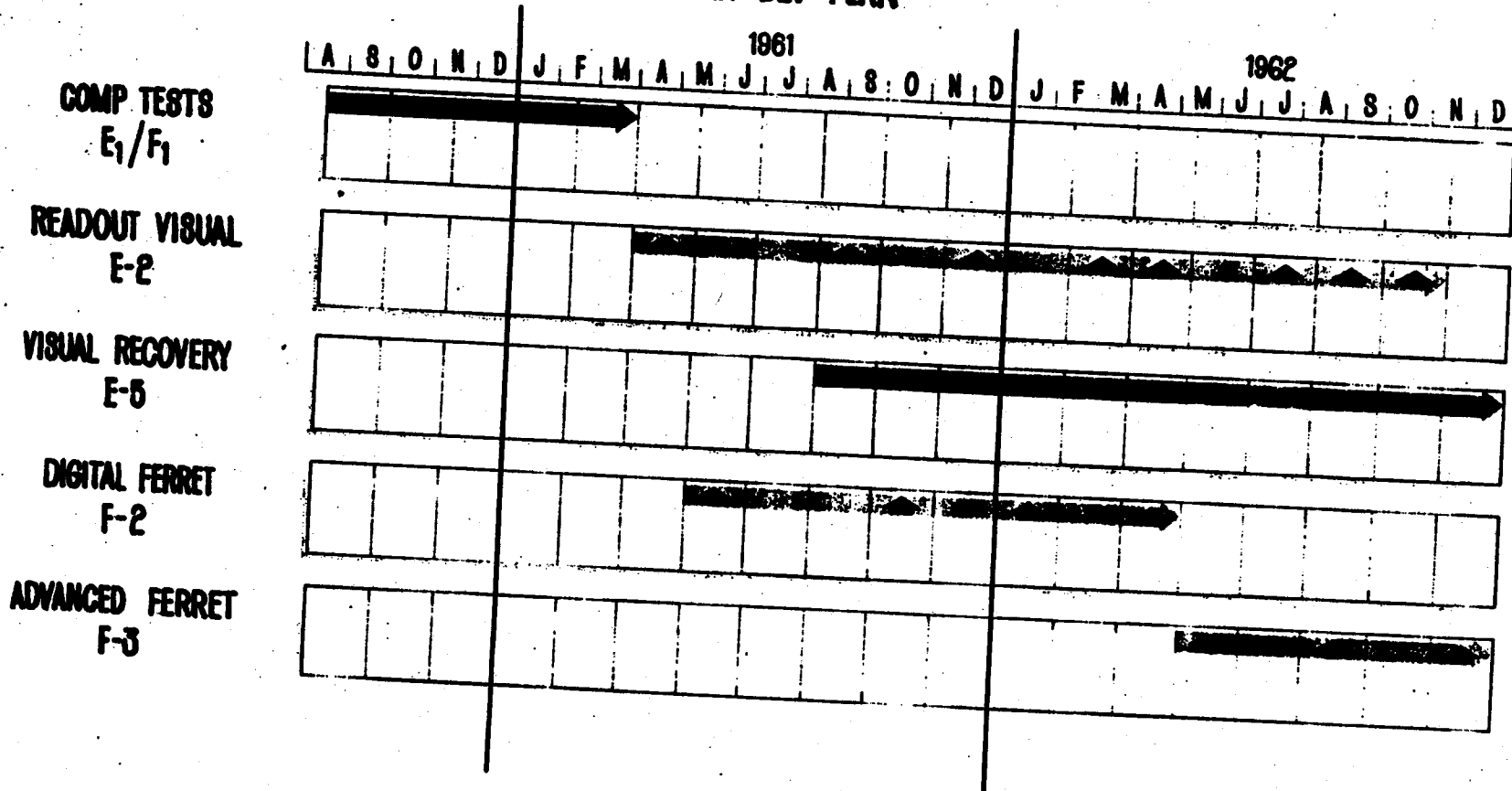


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# SAMOS LAUNCH SCHEDULE REVISIONS

## 15 JAN DEV PLAN



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**NEW FEATURES**

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1. ALLOCATION OF 2 RESERVE ATLAS/AGENAS FOR DIAGNOSTIC E6
2. ADDITION OF 5 STANDARD THOR BOOSTED COMPONENT TEST VEHICLES
3. EXPANDED ADVANCED TECHNICAL R&D PROGRAM
4. NO THOR - SOLID DEVELOPMENT
5. COMPLEX #2, PT ARGUELLO (3 PAD)
6. DUAL INITIAL DEVELOPMENT OF SEARCH CAMERAS AND ASSOCIATED RECOVERY SYSTEMS

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**NEW FEATURES (CONT'D)**

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7. E6 AND E5 DISPLACE ALL EARLY READOUT FLIGHTS EXCEPT  
3 E1/F1, 2 E2 & 1 F2
  
8. AMR UNDER STUDY TO DETERMINE UTILITY FOR SAMOS

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# COST SUMMARY

ALIGNED EXISTING PROGRAM

E-1/E-2, E-2, E-5, F-2, DIAG. E-5 RECOVERY- 17 FLTS.

BACKUP TECHNICAL EFFORTS

GROUND TESTS & UNITS. STATE-OF-ART DEVEL.,  
WEATHER PROGRAM, ETC.

NEW RECOVERY PROGRAM

7+2 DIAGNOSTIC FLT & GSE  
DUAL RECOVERY DEVELOPMENT

DUAL PAYLOAD DEVELOPMENT

[REDACTED]

TOTAL

TECHNICAL SUPERVISION-AEROSPACE CORP.

SYSTEM INTEGRATION

ADDITIONAL BOOSTERS & AGENAS

8 AGENA, 5 THOR 3 ATLAS

SUB TOTAL

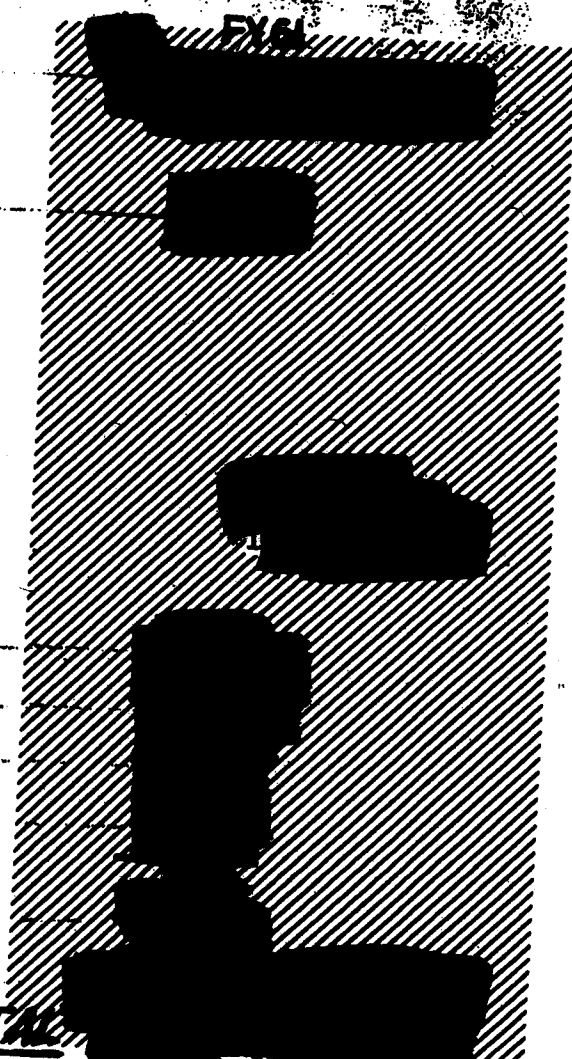
ADDITIONAL ATLAS COMPLEX, GSE, MAB...

GSE(THOR), ATLAS/AGENA PAD CONVERSION AMR

TOTAL

IIAUG PLAN

EXG



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**COST SUMMARY**

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**12 JULY PLAN**

**ALIGNED EXISTING PROGRAM**

E-1/E-2, E-2, E-5, F-2, DIAG. E-5 RECOVERY-20 FLTS.

**BACKUP TECHNICAL EFFORTS**

GROUND TESTS & UNITS. STATE-OF-ART DEVEL.,  
WEATHER PROGRAM, ETC.

**NEW RECOVERY PROGRAM**

B+2 DIAGNOSTIC FLT. PROGRAM & GSE

THOR-SOLID DEVELOPMENT & TEST

FAD MOD. — (.2)

ACCURACY RECOVERY DEVELOPMENT

(KTV FLTS. SUPPORTING VEHICLES & TESTING GRND STAS, ETC.)

**TOTAL**

**TECHNICAL SUPERVISION-AEROSPACE CORP.**

SYSTEM INTEGRATION

**ADDITIONAL BOOSTERS & AGENAS (5 EA.)**

INCLUDING PREP & LNCH COSTS

**SUB TOTAL**

**ADDITIONAL ATLAS COMPLEX, GSE, MAB...**

**TOTAL**

~~SECRET~~

DOWNGRADED AT 12 YEAR  
INTERVALS; NOT AUTOMATICALLY  
DECLASSIFIED. DOD DIR 5200.10

~~SECRET~~  
**RECOMMENDED ACTIONS**

AL 60 0000 25530

1. APPROVE THE RECOMMENDED REVISIONS TO EXISTING SAMOS PROGRAM
2. APPROVE IN PRINCIPLE, THE RECOMMENDED ADDITIONAL RECOVERABLE PAYLOAD DEVELOPMENT PROGRAM AND THE REQUISITE ADDITIONAL FUNDS
3. NOTE THE EFFECT ON MIDAS PROGRAM

~~SECRET~~

DOWNGRADED AT 12 YEAR  
INTERVALS; NOT AUTOMATICALLY  
DECLASSIFIED. DOD DIR 5200.10

**SECRET**  
**RECOMMENDED ACTIONS (CONT'D)**

AL 60 0000 25535

4. PERMISSION FROM COMMANDER, ARDC, TO PROCEED WITH SOURCE SELECTION

~~SECRET~~

DOWNGRADED AT 12 YEAR  
INTERVALS; NOT AUTOMATICALLY  
DECLASSIFIED. DOD DIR 5200.10





