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FOR POPPY	!

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BYEMAN EARPOP

FY-71 NRL BUDGET FOR POPPY

A. NRL LTR BYE-51900/71 OF 19 JANUARY 1971

B. DIR PROGRAM C MEMO BYE-66475/70 OF 30 DECEMBER 1970

C. DIR O MEMO BYE-13396/70 OF 17 DECEMBER 1970

D. DIR PROGRAM C MEMO BYE-66449 OF 5 NOVEMBER 1970

1. REF A PROVIDED AN ANALYSIS OF THE COST GROWTH OF POPPY IN RESPONSE TO REF B AND C. IT IS ENCOURAGING TO NOTE THE EFFORTS AT NRL DIRECTED TOWARD IMPROVED MANAGEMENT PROCEDURES. THE PROGRAM C OFFICE IS ALSO TAKING STEPS TO INSURE THAT THE PROGRAM CONTINUES TO DELIVER THE BEST PRODUCT AT LEAST COST.

2. ENCLOSURE (D) TO REF A CITED A DEFICIT OF \$365.5K IN THE 7106 ACCOUNT FOR FY-70 DUE TO THE 7106 FAILURE ANALYSIS AND REQUESTED THAT IT BE APPROVED AND FUNDED. ALSO REQUESTED WAS \$98.8K THAT WAS DEFERRED

PAGE 2 COGNAC 14-71. ~~TOP SECRET~~

FROM THE INITIAL FY-71 FINANCIAL APPROVALS PENDING FURTHER JUSTIFICATION.

3. INFORMAL DISCUSSION WITH THE NRO INDICATED THAT REF A AND D ARE NOT SUFFICIENTLY DETAILED TO PERMIT A DECISION ON THE TWO FUNDING ITEMS. SPECIFICALLY, THE FOLLOWING QUESTIONS NEED TO BE ADDRESSED.

A. AS SOME PERIOD OF TIME HAS ELAPSED SINCE IDENTIFICATION OF THE TWO FIGURES, ARE THE AMOUNTS REQUESTED STILL VALID OR HAS THE PROGRAM BEEN ABLE TO ABSORB ANY PART OF THE ORIGINAL DEFICIENCIES?

B. WITH REGARD TO THE 7106 FAILURE ANALYSIS, THE GREATER PORTION OF WHICH IS ATTRIBUTED TO NRL SALARIES AND OVERHEAD, HOW WAS THIS FIGURE DETERMINED (MAN/DAYS, WORK AREAS, ETC)? NOTICE HAS BEEN TAKEN OF REF A WHICH INDICATED THAT \$271K WORTH OF MANPOWER RESOURCES HAD BEEN DIVERTED FROM ADVANCE DESIGN, ENGINEERING AND PROCUREMENTS ON MISSION 7107.

C. WITH RESPECT TO THE \$98.8K DEFERRED ITEM (MISSION 7107), WHAT WERE THE SPECIFIC ITEMS WHICH CAUSED THE LARGE INCREASE (19 PERCENT) IN THE FY-71 NRL GROUND STATION SALARIES OVER THE 1970 ESTIMATE?

D. WHAT WILL BE THE EFFECT ON THE PROGRAM IF THESE TWO MONEY REQUESTS ARE NOT

THE PROGRAM WILL CONTINUE TO PRESS FOR REQUIRED FUNDS.

HOWEVER, IN THESE TIMES OF FISCAL AUSTERITY IT IS RECOMMENDING SYSTEM ONLY

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HANDLE VIA

RECORDING SYSTEM ONLY

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INCREASINGLY APPARENT ~~TOP SECRET~~ RE COMPLETE AND DETAILED JUSTIFICATION IS
REQUIRED BEFORE UNCLASSIFIED APPROVED.

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Deletions from NAB Budget
for 6th equipment set.

Radome	48K	Keep
Antenna	348K	Keep
Test Ant	42K	Keep
Link Verification	84K	Delete
Distribution Sys.	37K	"
Command Sys	332K	"
Gate Control	655K	"
T M Revers	45K	"
T M Desode	155K	"
Reg Revers	66K	"
Bit Sync	465K	"
Sys Training	57K	"
Test & Cal		
Bit Sync.		
Data Storage	355K	Delete
System Control?		

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Computer Buy/Choice Strategy

1. Need to reduce cost of Control Computer hardware to 150K per site

2. Must identify the functions to be performed by the Control Computer

a. Status and control of Collection S/S equipment at a low rate

CRT

b. Collection S/S¹ display support

1. Limited data base bit/frame sync

2. Conversion to engineering units (e.g.)

3. Control signal generation for the Collection S/S

c. Monitor T/M, perform limit checks confirm tasking

d. Control the collection/formatting/compression/
and storage of T/M data on magnetic tape

e. Command Authentication

f. Transmit Tasking

(Where is data base & command structure to read? Coms are input to the E-DPS)

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Degraded

Ladsup recording

h Calibration

to CADD

to EADD

} all one

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3. ~~TOP SECRET~~ ☐ method that misures
integration of the EDP and CDP
systems. Strategy I

a. TAW buys and integrates both
subsystems.

b. HRB designs the system operating
software (knows ^{POPPY} sites operations) 47M

c. TAW designs the applications software
(Knows satellite ground station design)

d. NPH becomes closely connected
with implementation of a, b, c, above.
(George Price)

Strategy II

a. TAW does whole job

Strategy III

b. HRB accomplishes task with
TAW performing Ground Station
SE + I.

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4. Decision does not have to be made until
after end of Y73

Propose reprogramming of FY73 funds
in 04.01 Control Computer Hardware
to other parts of N2h Budget. For
example, 01.01, Antenna and Servo set
and 01.06 Radome set.
This will allow time enough to
properly size

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Area in question

System Calibration

2. Generation of Commands and update of command data base. Relationship to encryption function?
3. Size of, and elements in, the CDP data bases.
 - a. antenna pointing tables
 - b. Collection S/S configuration
 - c. Display support data
 - d. TM structure & compression tables
4. Software needed.
- 5.

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