

~~SECRET~~~~SECRET~~5000-46:HB:meh
14 December 1970

MEMORANDUM

To: Distribution List

From: Code 4000

Subj: Briefing Admiral Gayler

Encl: (1) Agenda for Briefing Admiral Noel Gayler

1. The briefing for Admiral Gayler will be given on 17 December 1970, as set forth in enclosure (1).


Director of ResearchDistribution List

Code 1000

Code 5000

Code 6000

Code 5600

Code 6500

Code 5006

Code 1001

Code 1010

Code 1055

Code 1065

Code 4010

Code 5604

✓ Code 5610

Code 5620

Code 5630

Code 5650

Code 5300

Unclassified when enclosure is removed

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AGENDA FOR BRIEFING ADMIRAL NOEL GAYLER, USN
ON 17 DECEMBER 1970

1220 Admirals Gayler and Cook Arrive--Bldg. 43
(About)

1230 Lunch

1315 Depart for Bldg. 30 (Rm. 201)

1320 Electro Optical Intelligence

1345 Air Defense ECCM & OTH for EMCON Surveillance

1355 Depart for Bldg. 56 (Rm. 200D)

1400 Brief of Director's WFO Trip

1410 Threat Missile Simulation

1440 Passive Ocean Surveillance

Mr. R. D. Mayo,
Mr. R. D. Misner,
Mr. M. J. Sheets

1510 Coffee Break

1520 Rasur Research

Mr. J. H. Trexler

1535 Ship Signature Measurements

1550 Advanced Airborne EW Systems

Mr. R. D. Misner

1620 Depart Laboratory
(About)

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Encl. (1) to NRL Memo
5000-46

~~SECRET~~

Electromagnetic Intelligence at NRLA Briefing for Vice Admiral Noel Gayler USN and Staff

Lunch

Bldg 43, Room 202

15 min. Intelligence Research at NRL

20 min. Electro Optical Intelligence

Bldg. 56, Room 200D

5 min. Introduction to EW

30 min. Threat Missile Simulation

40 min. Passive Ocean Surveillance

R. D. Mayo
R. D. Misner
M. J. Sheets

15 min. Coffee Break

15 min. Rasur Research

J. H. Trexler

20 min. Ship Signature Measurement

30 min. Advanced Airborne EW Systems

R. D. Misner

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PRESENT:

MISSION 7107 Spacecraft-


Complete Geoposition ability from .154-10.5GHz
14.5 to 15.1 GHz also.

9.2 to 9.4 GHz COMB-FILTER (20 Sections)
to improve frequency resolution and
display frequency agile emitters here.

MISSION 7107- Ground Stations:

Improvements in Calibration of time delays.

Automatic Antenna Tracking system

Improved BUFFERED TAPE SYSTEM

Improved Manual Analysis System.

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FUTURE:

1. Augmentation of Program C for Tactical Use.

Tasking

Special tasks like "COMRADE IN ARMS"

TARGET OF OPPORTUNITY (Parameter measurement)

Ocean Surveillance

On-Site Processing Priorities

Adjusted responsively by NSA/NSG/NRO

Authorized Hardware Changes:

Second-Generation Computer System

Perishable Data-Extractor (PDE)

2. New Items not yet Authorized:

Advanced Development of PDE.

PRF Filtering added to present design.

Geographic Location SORT using

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~~SECRET~~OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

~~SECRET~~5600-122:LAC:am
DATE: 16 December 1970TO : Codes 5610, 5620, 5630, 5640

FROM : Code 5600 (Acting)

SUBJECT: ADM Gayler Visit on Thursday; information concerning

Encl: (1) Schedule and Agenda for ADM Gayler Visit

1. In discussions with [] yesterday he expressed some ideas concerning our brief on Thursday that I thought I should pass on to you. These are contained in the following paragraphs. Enclosure (1) gives a tentative schedule which you may or may not have received.
2. ADM Gayler will have several of his assistant directors as well as ADM Cook with him.
3. [] stated that ADM Gayler had made some criticism of the proposed agenda. These are enumerated below, but in general the guidelines are to emphasize new concepts, new ideas, new techniques. He does not desire program reviews or subjects with which he is familiar and on which he has been previously briefed. In particular he has some questions that he wishes to discuss. I think most of these concern ECCM and I suggested that [] be invited to participate. [] understands that if this is to be done, it must be before ADM Gayler and party come to Bldg. 56, Room 200D.
4. It was stated that on ocean surveillance ADM Gayler knows about the B program and does not want the standard brief. He knows about immediate plans to expand ground capabilities. He would like to hear about new ideas, for instance, as associated with OSIS or some other enhanced capability. Further he knows about shipboard HF/DF (room installation) and the ALR-25. Again, he would like to hear new ideas in the TH area.
5. On RASUR, we should discuss new and important points: localization, new front end, the augmentation of Sugar Grove with another station; studies on alternatives to the 300 ft. device, new efforts at Pomonkey.
6. With regard to Advanced Airborne Systems, he doesn't want to hear about microwave DF unless there is really something new.
7. I don't pretend to understand all the ramifications of the above points - I am merely relating them to you. I also understand Margaret (Code 5000 secretary)



5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

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*Notes on Meetings of 7 & 8 Dec
between 5614 & 5170 personnel
Mission 7/07 Schedule
" " Concept.*

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~~SECRET~~ Conflicts - From meeting 12/9/70 L.H.

- 1 Solarad
- 2 Overtime
- 3 Money
- 4 Supply
- 5 P.W.
- 6 ESD - Const + Feb
- 7 Layout personnel
- 8 ELint
- 9 Frey Alloc.
- 10 G.G.
- 11 Thrusters
- 12 3-D plots
- 13 MMD

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Christ Friend - ALICE 1, 2

1 Frequency allocation - unless we can get help

WOWT.M. will have to move to 148-150mhz
where d.l.'s go we don't know.

started letting out Aug 2, 1970 officially

2. Digital command - "can you meet 1 Nov." No not
with out real hard push.Engineering needs done now - Technicians have nothing
to do

solved conflict - latest is feed thru problem

20 - 75 bands (X 5 options/band = many options

130 circuits for each payload 100.00 ea or more
only 12 prototypes to datewith comb
Filter } 41 bands with A+B computer can only handle
32 segments

complications of Third transmitter

any band on any transmitter, complete
flexibility

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3rd harder to build
 "much tougher to test, design, interface."

Question - where does power (satellite) stand?

MMD - Mean Mission Duration (we must do also)

1. Last time system

2. now select any option 1 "one SLA, or not, any bandwidth
 Transm. Her"

Spec - $\frac{1}{2}$ watt to antenna feed

last time 3db
 + 1.0db
 .6 db loss, 3 cable, 1.2 db combiner, 1.2 isolation
 + 3.2 db in divider (splitting) 6.4 db
 optimistic
 run - 3 watts running

what impact on payload power

92% efficiency Wow what is theory?
 worst 82%

new antennas - reflectors and directors
 conservative - 27db loss on 150mc band
 (last time 11 db)

~~SECRET~~

aspects - nothing ~~made~~ ^{made on boom} Wow

~~SECRET~~

Vince
when^{is} complete set of electronics available?

schedule is now in July 3rd month of schedule

mechanical structure - way ahead

8 months from launch

"never make it"

23 weeks to 6 months start

Get detailed transmitter requirements

161

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4.

Simpler

1. G-6 All the same (simpler mechanical - ^{trougher}electronics same)
2. SLX (some very small)
3. No infrared sensor (small 3 wires)
4. No ^{Low-}band (1) ^{UV}G+D
5. solar cell experiment (small)
6. Mechanical better (we had to requalify)
(don't let much work to physical space be disturbed
in 409 for system test.)
(Get to push
Public Works and contractor)

7. experience level
8. More test equipment available
9. 161-172 identical (1 antenna - ~~2~~ G.G. booms)
10. No other payloads - demanding (no 176 or 169)
11. New Antenna mounting hook-up - Vince - easier testing

Greater

Work on 4th Floor! (sounds like a
major disturbance!) new chamber, alarms
new remove pipes

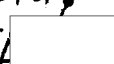
- a. 2nd floor rework
- c. 123 re-do pull equipment out.
2. command system 3 T.M. system 4 P.C. system ^{3 + m.c.}
2. S.F. Cont system
6. More reporting requirements
7. ~~More~~ testing
8. 39 Bands in ¹ ~~1~~ ² ~~2~~ ³ ~~3~~ ⁴ ~~4~~ ⁵ ~~5~~ ⁶ ~~6~~ ⁷ ~~7~~ ⁸ ~~8~~ ⁹ ~~9~~ ¹⁰ ~~10~~ ¹¹ ~~11~~ ¹² ~~12~~ ¹³ ~~13~~ ¹⁴ ~~14~~ ¹⁵ ~~15~~ ¹⁶ ~~16~~ ¹⁷ ~~17~~ ¹⁸ ~~18~~ ¹⁹ ~~19~~ ²⁰ ~~20~~ ²¹ ~~21~~ ²² ~~22~~ ²³ ~~23~~ ²⁴ ~~24~~ ²⁵ ~~25~~ ²⁶ ~~26~~ ²⁷ ~~27~~ ²⁸ ~~28~~ ²⁹ ~~29~~ ³⁰ ~~30~~ ³¹ ~~31~~ ³² ~~32~~ ³³ ~~33~~ ³⁴ ~~34~~ ³⁵ ~~35~~ ³⁶ ~~36~~ ³⁷ ~~37~~ ³⁸ ~~38~~ ³⁹ ~~39~~

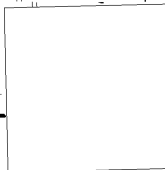
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51

9. redundancy
10. 3-D antenna plots (400+ patterns at every 100mhz) ^{using every 100 mhz. slices}
middle + Ends
11. MMD requirement
12. Solarad impact (3 months) (growth 155 to 160's)
13. Supply hold ups (very bad) (German/Supp) ^{last} (13 months No stubs)
14. Bottle neck in shops for people to do
two wiring harnesses at once etc. (German/Supp)
in addition ~~say~~ over time
15. Getting decent P.C. board out of shop
many mistakes ^{slippy} miss drilling, soldering, etc.
16. P.C. Layouts are only done by 1 man need several
more. a. Command why not 
b. d.c. system or then Senior man getting on this one??
c. Analog system
17. 

Note review turnaround on earlier missions 74, 2, 14, 15, 7

18. ranging system decide on adding Retep
19. stored command -
20. pressure  development, documentation
21. more documentation
22. New Micro thrusters
23. body fixed damper
24. Boom development.
25. Folding out the magnetometer (minor improvement)
26. ~~SECRET~~  antenna - very much work ONLY
27. Too many temperature concerns (30 some now)


~~SECRET~~worst case

51 video amps

" multivibrator

" cable sets

+ extra or low level video output for SLX

3 positions switches

18 bands 1-18

~~2 bands 19-39~~

1 SLX

1 Variable threshold

20


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Multiple input

Δ - devel.
- ready
O - test

6

WORLD

26
1/20
51

worst

Noise-pickups

20-3 position switches

31 inputs

Log Amps

SLX

normal to T-3

In 170
This is 160's
choice

Digital
Word

Modulator

T1

T2

T3

standard switch



- 1
- 2
- 3
- 4
- 5H
- 5V

- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 12H
- 12V
- 13a
- 13b

low level

VA TD

M4

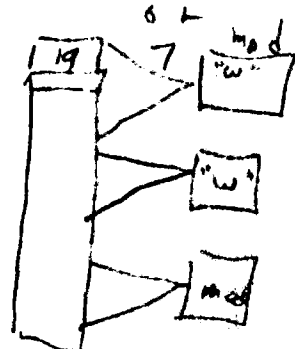
no SCX on x band

- 17A
- 17B
- 18
- 19
- 20

20 inputs

Same as SCX

- 39





15 Cin +

128
different
activity

A, B, JEND
1, 2, 3, ...

64 housekeeping

4
A Select (OFF)
B Select (OFF)
R&D

Page 2 Bonds, SCL, , T. D.,
(Trans 1)

$\frac{7}{25}$ comb filter

1 5 CX
1 [redacted]
1 T.D.
1 T.2
1 T.3

2 timer (4)

ALL commands for us one separate
House keeping extra

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⑧

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need definition

1. 3rd Transmitter

2. Retex

3. SCX is a big problem a. Noise
to

b. Temperature

c. Loading

4. Variable threshold design

b. decoding network

c. layout

5. "X"-band definition this must be done

①

7 commands

6. R. F. Command frequency very critical

7. critical circuits for P. C. production

8. command area of 1 minute delay version.
(probably not in A)

9. money - shared major problem

10. Memory extras / possible memory out - no A.P., no data A.C.
20% unit Engineering expensive reduction

11.

12.

13. system design by 30 Jan.

} message to NRO/NSA
their date 15 Jan~~SECRET~~

~~SECRET~~

In House

1. PCM
2. Analog TM
3. Command system + P.L.
4. SLX /
5. R.F. system
6. Reaction wheel
7. Ground station

21 May

a. Timer

1. Reaction wheel

whole in house
construction people

2. R.F. system - R.F. section + mechanical

3. SLX -

(construct)
construction people

4. Command system -

construction people

5. Analog T.M. -

construction

6. PCM in house -

construction

7. Ground station - PCM -

construction

Leads interface definition - wiring list

8. System Design -

End Jan 30 around 3:00 PM, Lee

9. Timers -

construction

* solar ad conflict

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~~SECRET~~

(9)

Wiring harness

previous several hundred wires
 now # of video amp

very critical to identify parallel components for I.C. production high-quality - redundant)

1. ring-counter (3-Delemat)
2. 3 position switches

Time system

1. same as past more unique reset flexibility
2. ^{adding} requirement ~~for~~ 4 second command reject on enable circuit

New Address setup

1. If third tone is present delay is setup so that is accepted
2. shorts & opens are covered in parallel and series coverage

1a - Block Box Fabrication

25 man days - construction
 photo - fabrication - test - debug

Board Typical Layout - 120-200 hrs

~~SECRET~~ 8 hrs

~~SECRET~~

Solar panels — if supply proper to

① 16 July G.C. — Very tight (doubt for CC) will be problem

② command receivers — no problem —

③ Thrusters — ~~possible exception~~ no chance now
 may be for 25k prime time

④ memory + PCM systems — can't make 4 weeks — 6 weeks
 (spec written) (not stub yet) End Jan. contract (late by 2 months)
 (pull memory out!) not needed spectrae

⑤ Prog analysis via PDE, second Gen Alder

5. Batter pack no problem

6. Analog T.M. — no problem — if compatible in shop

7. Honeycomb — ~~ok~~ * 1 April now

8. Shell — ~~ok~~ (2 weeks earlier)

9. P.C. Harness — (this is 1 month (5 weeks after Honeycomb))

10. SLX — ~~ok~~ (1 June) should be 21 May

11. R.F. Harness ^{System} — 28 May (really 22 May) First ok, 2nd in trouble
 (materials stat) no stubs out

12. Ranging system — out

13. reaction wheel — 21 May o.k.

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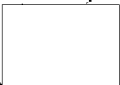
~~SECRET~~ 
What do we need for schedule

1. system (complete)

2. money

3. solarad

4.

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from - 6

2. R.F. new 3.D.C. , new design , higher effci
Antennas better, Less RFI

Question on Antennas design

2 - Digital T.M. - Same as before
(Command)
contract is not released.
(no stub.) (Space Tack gear)
5 months from contract

Pete - Push

h. build some in house (Command)

big job → ~~to~~ modify + breadboard.

Don Kohns, Mr.
0.8.1
Kohns

need to get certain people off solar red

Arco-decoders - possible problems (impedance changes)

needs definition with Ike/Vince (to transmitters)

need pulse width assignments

3. Analog T.M. - too many monitors
decide how many redundant
changes to make digital easier in the
analog harder

4. Aspect - most order OK

5. Gravity Gradient - Same as '62, G.E. dampers - expensive
(SPAR $\frac{1}{2}$ ") not body Fixed dampen
2 1/2" which is by far the best

6. Micro Thruster - 10 months due in possibly to be accelerated
WOW

7. reaction wheels - on order ok
- electronics to be built in house.

Looks ~~ok~~

cells - slight change

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1. ~~SECRET~~ [redacted] sion on [redacted] meeting, cite overall need
+ requirements

2. 07 scheduled subject matter

3. changes in 07 - drop R+D bird

consider

4. 153MC raised to 154 & also only 2 boll

5. Books above 3600 plug in now video amps

6. Snap on antennas

7. Low Level video use full for SLX [redacted]

4. 14 8. Band 14-39 - ¹⁴ some slots ^{possibly for command}
b. due in Feb. (2 months)
c. ice cream cone

9. 55 video amps in A or B

note 10. Command meeting was lost "Looked
→ Like night mare"

11. SLX is now being used regularly. - This means 3-D plots
on priority bands

12. 07 will have calibration from ground
as paid for by NRO

13. Simulated antenna patterns - do only on R.F. model

14. Anechoic chamber repairs and changing taper & need to
circular from linear.

15. [redacted]

16. [redacted]

17. For SLX read try to establish 160 - 80 usm pulses

18. [redacted] ve 3 Transmitters with STAND BY power

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19. signals looking thru only loose tdb
check - This seems hard to believe

I reference
direction

20. for polarization measurements consider bringing
out on different widths each pulse width.

21. T.M. running into problems getting ~~allocations~~
new command frequency 448-150mhz (NASA)

22. Reliability, redundancy, big words

23. Possible delays down stream, bad components

24. tomorrow scheduled

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~~SECRET~~

T0X804

PF RUMKAW

DE RUMKAW TO RUMKAW

CITY 1008 1100

1008

1008

1. standard poppy

2. downward side-lobe enhancement

3. horizon side-lobe "

4. lowest p-ss pairs

5. ~~lowest~~ Broad band - transparent (Sankar)

6.

~~TOP SECRET~~1500
X CR 12-28-78

5614

1000

1170

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DE 9321 GA KKK

DE7910 AND TFC FOR U

TWX629
RR RUXQAAJ
DE RUXQAA 469 3460111
ZNY XXXXX KEX
R 120110Z
BT
XXXXX
133

~~SECRET~~ 112335Z DEC 70 CITE CHARGE 5649.

WHIG

CORONA/LANTOP

WHIG FOR MR

FROM COL MCBRIDE/COL BRADBURN

FOR MR WILHELM

1. IN RESPONSE TO MR [] AND MR WILHELM'S INQUIRIES ON 19 NOV 1970, THE FOLLOWING INFORMATION IS PRESENTED ON THE ADDITIONAL COST PER MONTH FOR A LAUNCH DATE SLIP OF POPPY VEHICLE #2707: (FY 1972 DOLLARS)

DEC	.425
JAN	.500
FEB	.685
MAR (& FOLLOWING)	.935

THESE COSTS ARE BASED UPON SOLE USE OF THE THOR/AGENA LAUNCH CREWS BY POPPY AFTER THE LAST CURRENTLY SCHEDULED LAUNCH OF THE CORONA

PAGE 2: CHARGE 5649. ~~SECRET~~

PROGRAM IN NOVEMBER 1971.

2. CORONA, WHICH USES COMMON LAUNCH PERSONNEL WITH POPPY, IS CONSIDERING AN EARLY 1972 LAUNCH. IF THIS BECOMES A REALITY, THE APPLICABLE COSTS FOR A POPPY SLIP WOULD DECREASE DUE TO CONTINUED SHARING OF THE THOR/AGENA LAUNCH EFFORT.

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BT

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For 0830
12-14-70
5614
5600
5170
1800
4000

TWX811
 RR RUXQAAJ RUXQAAL
 DE RUXQAA 808 3622028
 ZNY XXXXX VVV
 R 282025Z
 BT
 XXXXX
 244 CONQUER 496

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~~SECRET~~

A-C-T-I-O-N

A

12-29-70
 1100
 55614
 5170

1000
 4000

~~SECRET~~ 282025Z DEC 70 CITE PROBE 38-70

ROUTINE CONQUER

~~EARPOP~~

~~SECRET~~ 231643Z DEC 70 CITE WHIG 1169

FOR DIRECTOR, PROGRAM C, FROM DR. NAKA

SUBJ: STATUS REPORT

1. I REQUEST A MONTHLY REPORT BE SUBMITTED TO THE NRO THAT ADDRESSES THE TECHNICAL, SCHEDULE, AND COST ASPECTS OF PROGRAM C. THIS REPORT WOULD BE AS OF THE END OF EACH MONTH AND BE SUBMITTED SO AS TO ARRIVE BY THE 20TH OF THE FOLLOWING MONTH. THE REPORT SHOULD BE PREPARED IN TWO PARTS; TECHNICAL AND FINANCIAL.

2. THE TECHNICAL PORTION SHOULD INCLUDE AT LEAST THE FOLLOWING INFORMATION FOR EACH SPACECRAFT MISSION:

- A. DESIGN
- B. PAYLOAD FABRICATION
- C. SPACECRAFT FABRICATION
- D. BOOSTER INTERFACE
- E. GROUND STATION
- F. FAILURE ANALYSIS

3. THE REPORT SHOULD CONTAIN BOTH MILESTONE CHARTS AND A BRIEF DESCRIPTIVE PARAGRAPH ON THE STATUS OF EACH OF THE SUBSYSTEMS ABOVE. SIMILAR INFORMATION ON THE POPPY AUGMENTATION FOR OCEAN SURVEILLANCE SHOULD ALSO BE PROVIDED. THE INITIAL SCHEDULE CHARTS SHOULD BE COORDINATED WITH THE NRO STAFF FOR CONTENT AND FORMAT PRIOR TO THE SUBMISSION OF THE FIRST REPORT.

4. THE FINANCIAL INFORMATION SHOULD BE LIMITED TO THE STATUS OF THE CURRENT FISCAL YEAR FUNDS. THE REPORT SHOULD BE BY LINE ITEM IN THE USUAL BUDGET FORMAT FOR EACH SPACECRAFT MISSION AND THE POPPY AUGMENTATION FOR OCEAN SURVEILLANCE. THE INFORMATION REPORTED SHOULD INCLUDE:

- (A. DNRO APPROVALS BY LINE ITEM FOR THE CURRENT FISCAL YEAR.
- B. CURRENT YEAR CUMULATIVE OBLIGATIONS INCURRED AGAINST EACH LINE ITEM.
- C. PROJECTED END FISCAL YEAR REQUIREMENTS BY LINE ITEM.
- D. ANY PROJECTED VARIANCE FOR EACH LINE ITEM BASED ON ESTIMATED END FISCAL YEAR REQUIREMENTS.

5. IF FUND ADJUSTMENTS ARE REQUIRED, THE REPORT CAN BE USED AS A MEANS OF REQUESTING AND JUSTIFYING SUCH ADJUSTMENTS. THIS DOES NOT REPLACE OR PRECLUDE REQUESTING ADJUSTMENTS BY SEPARATE CORRESPONDENCE AS IN THE PAST.

6. THE FIRST REPORT IS REQUESTED IN JANUARY COVERING THE PERIOD THROUGH DEC 31, 1970. IF YOU HAVE ANY QUESTIONS ON CONTENT OR FORMAT, THE APPROPRIATE MEMBER OF THE NRO STAFF SHOULD BE CONTACTED FOR ASSISTANCE.

~~SECRET~~

400
 #0004

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Summary of 9 February Meeting with

examined the monthly reports which NRL has available and suggested: that we submit monthly, reports on the following:

1-MANPOWER COSTS AS FOLLOWS:

Division Regular hours/Costs plus cumulative

Division Overtime

Division Overtime Note Pete's and Mine can be separated or
 Service Support Manpower Hours/Costs the entire summary given in two parts.

G&A costs

Indirect Overhead Costs

XX

The Misc Mats, Travel and Shipment Items for Pete and Me will make up the total of all other expenses except for Major Procurements

The distribution of Major Procurements and Minor Procurements is subjective and not capable of being unravelled at a later time by anyone other than Mayo or Wilhelm...therefore we are all seeking a more rigorous system that will not have matters of personal judgement in the determination of the various shred-outs.

Wilhelm was going to provide several additional break-outs for his Spacecraft major procurements.

[redacted] suggested that he would try with [redacted] to get an annual inventory of each of the Ground stations to be used instead of the monthly expenditures....At least these are matters of very accurate report.. Logistic Support is now accurately determined.

We can expect to receive from [] a set of reports that may to a large extent be available but I suspect that they may not be judged for their ease of preparation nor their ~~xxxxxxx~~ excellent definition within the present system. If these do arrive we must push [] into the act of getting these "Shred-outs" made available through the NRL Comptroller Shop []

NNNNTSCD009
RR RUXQAAJ
DE RUXQAA 921 3652151
ZNY XXXXX VVV
R 311920Z
BT
XXXXX

284

FOR
0835
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4-71

5614
5770

~~SECRET~~ 311951Z DEC 70 CITE CHARGE 5917.

PROBE, INFO WHIG,

~~EARPOP~~

SUBJECT: POPPY MISSION 7107

1. CHARGE TWX 5795 TO WHIG ON 22 DEC 70 STATED THAT POPPY MISSION 7107 COULD BE SLIPPED TO FEBRUARY 1972 BASED ON POSSIBLE LATE DELIVERY OF POPPY PAYLOADS.

2. THE LAUNCH VEHICLE FOR POPPY MISSION 7107 IS ON SCHEDULE TO SUPPORT A NOVEMBER 1971 LAUNCH.

~~SECRET~~

BT

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