

~~TOP SECRET~~
~~Handle Via BYEMAN~~
~~CHANNELS ONLY~~

Jim

ITH 0004
121217 PP VLK RUXSBAA1024 1832055 00041-XXXX--RUXPDA.
ZNY XXXXX VLK ZMM
P 012040Z
BT
XXXXX
DAMP 673
DAMP PASS

AA-4322
2

DISTRIBUTION		
	A	I
SAFOS		
SAFAL		✓
SAFUSS		✓
SAFSS		✓
EXEC		
L&A		
P&B		
S&T		✓
SAF/SPE		
TC		
REGISTRY		
COMM		
RF		✓

25X1

T O P S E C R E T 012040Z JUL 80 CITE BISON 6704
PRIORITY
HANDLE VIA BYEMAN CHANNELS ONLY
 HEXAGON

FOR DR HERMANN/MR. HAAS. FROM: MAJ GEN KULPA
SUBJECT: LOW-ORBIT ELINI MIX

1. REFERENCES:

- A. TWX CITE 0043, DTG 141634Z JUN 80.
- B. YOUR LETTER, 26 JUN 1980, LOW-ORBIT ELINI MIX.

2. THE PROGRAM 989 OFFICE HAS REVIEWED THE DRAFT DISCUSSION PAPERS FOR THE LOW-ALTITUDE ELINI MIX AND HAS PROVIDED DETAILED SUGGESTED CHANGES AND DATA CORRECTIONS. I BELIEVE THAT YOUR FINAL POSITION TO THE IC STAFF SHOULD EMPHASIZE THE FOLLOWING CONSIDERATIONS:

A. THE DATA PACKAGE DESCRIBES THE TRANSITIONED PROGRAM 989 AS A SINGLE SATELLITE, LAUNCHED ON AN ANTICIPATION-OF-FAILURE PROGRAM. THIS CONNOTATION MAY LOCK US INTO RIGID PROGRAM PLANNING ASSUMPTIONS WHICH DETRACT FROM THE FLEXIBILITY AND RESPONSIVENESS WHICH ARE P-989'S MAJOR ASSETS. FOR EXAMPLE, WE ARE ABLE TO WORK-AROUND SPECIFIC LIMITED FAILURES IN THE PRESENT PROGRAM BECAUSE OF THE REDUNDANCY PROVIDED BY MULTIPLE SATELLITES. IN A SINGLE SATELLITE PROGRAM, THIS OPTION WILL NOT BE AVAILABLE. A PIPELINE SPARE WILL ALLEVIATE THIS PROBLEM ONLY TO A LIMITED EXTENT.

B. I RECOMMEND THAT WE DESCRIBE THE PROGRAM AS A RELATIVELY FIXED BUDGET, FLEXIBLE APPROACH TO SATISFYING INTELLIGENCE REQUIREMENTS. WE PROPOSE TO BUILD SATELLITES APPROXIMATELY EVERY TWO YEARS AND LAUNCH ON A SCHEDULE DRIVEN BY INTELLIGENCE NEEDS AND THE AVAILABILITY OF RIDE SHARING. WITHIN A RELATIVELY CONSTANT ANNUAL BUDGET, WE WILL STRIVE TO MAKE MISSION CAPABILITY AND RELIABILITY IMPROVEMENTS WHICH WILL RESULT IN INCREASING QUALITATIVE AND QUANTITATIVE SATISFACTION OF MISSION REQUIREMENTS.

C. THE TRANSITION OF ELINI PROGRAMS TO THE SPACE SHUTTLE MAKES THE NEXT FEW YEARS ONES OF RELATIVELY HIGH RISK TO OUR ABILITY TO MAINTAIN AN ELINI COLLECTION CAPABILITY. ONE OF THE BENEFITS OF PROGRAM 989 IS THE FLEXIBILITY IT GIVES US TO FILL GAPS IN ELINI COLLECTION. IT GIVES THIS BENEFIT AT A COST WHICH IS BLEND WITH ALTERNATIVE WAYS OF ACHIEVING THAT FLEXIBILITY. A PRUDENT PROGRAM, THEREFORE, WOULD BE ONE WHICH LEAVES THIS FLEXIBILITY IN THE 989 PROGRAM.

D. SIMILAR CONCERNS FACE THE IMAGRY PROGRAMS DURING THE PERIOD OF TRANSITION TO THE SHUTTLE. THE LAUNCH SCHEDULE FOR HEXAGON IS DRIVEN BY SUCH CONCERNS AND IMAGRY REQUIREMENTS RATHER THAN BY THE NEED TO LAUNCH A PROGRAM 989 SATELLITE. FURTHERMORE, THE SELECTION OF AUXILIARY PAYLOADS TO PUT ON A HEXAGON LAUNCH IS BASED ON BALANCING THE MISSION NEEDS WITH PAYLOADS WITH

~~TOP SECRET~~
~~Handle Via BYEMAN~~
~~CHANNELS ONLY~~

~~TOP SECRET~~
~~Handle Via BYEMAN~~
~~CHANNELS ONLY~~

EACH OTHER AND WITH REASON, THERE IS CONSIDERABLE RISK IN PLANNING TO LAUNCH FARRAH II ON HEXAGON 28 RATHER THAN ON HEXAGON 17 BECAUSE OF INFLUENCES EXTERNAL TO ELINT PROGRAM PLANNING. E. I RECOMMEND THAT WE CONTINUE TO PLAN THE ACQUISITION OF FARRAH III BASED ON THE LAUNCH OF FARRAH II ON HEXAGON 17 IN MARCH 1983. THE SCHEDULE FOR ACQUISITION OF FARRAH III SHOULD BE SUCH THAT THE SATELLITE IS AVAILABLE TO COUNTER THE HIGH RISK OF OAR IN THE OVERALL ELINT PROGRAM IN 1986.

REVW 4 JUL 84
TOP SECRET
BT
#1024

NNNN

~~TOP SECRET~~
~~Handle Via BYEMAN~~
~~CHANNELS ONLY~~

104 8894
18-217 SE
204 2111 174 244
204 2111 174 244
204 2111 174 244

~~SECRET~~
~~HANDLE VIA BYEMAN~~
~~CONTROL SYSTEM~~

Beall AA 1/1/58
LA 0184
[Signature]

25X1

SECRET
IMMEDIATE [redacted] INFO IMMEDIATE CORNAC, LAGOON,
HANDLE VIA STEFAN CHANNELS ONLY

[redacted]

FOR HERMANN/HAGE, INFO CORNAC FOR ADM YOWELL
LAGOON FOR PAULSON/DAINHOFF FROM GEN KULPA
SUBJECT: LOW ORBIT ELIM? MIX

REF: SIBON 1738, 13 FEB 68
THE FOLLOWING ARE SOME ADDITIONAL THOUGHTS TO THE
REFERENCE MESSAGE:

AS YOU BEGIN TO DELIBERATE VARIOUS POTENTIALS
TO THE LEO ALTITUDE MIX IT MIGHT BE USEFUL TO CONSIDER
THE FACT THAT THE 989 SATELLITE, FOR ITS ALMOST 20 YEARS
OF OPERATION HAS BEEN A PASSENGER SATELLITE, FIRST ON
CORONA THEN GABBIT AND NOW R. IT HAS NEVER PAID FOR
A PRIME LAUNCH, IT HAS ALWAYS PAID FOR ITS OWN LAUNCH
VEHICLE INTEGRATION, COMPATIBILITY TESTING AND LAUNCH
ADAPTOR HARDWARE WITH THE HOST VEHICLE AND AS A RESULT
HAS BEEN ABLE TO MAINTAIN A VERY LOW FUNDING PROFILE. IT
APPEARS AS WE MOVE INTO THE SHUTTLE ERA THIS SAME FUNDA-
MENTAL PHILOSOPHY CAN BE MAINTAINED WE SHOULD HAVE A
MULTITUDE OF OPPORTUNITIES WITH DIFFERENT PRIME PAYLOADS
TO CONTINUE TO OBTAIN EITHER FREE OR VERY INEXPENSIVE RIDES
INTO ORBIT. IN FACT, THE SHUTTLE SHOULD OPEN UP NEW OPPOR-
TUNITIES OF BEING ABLE TO BETTER MATCH ORBIT INCLINATION TO
OPERATIONAL REQUIREMENTS.

REVW 19 FEB 68

SECRET

01774

DISTRIBUTION		
	A	I
SAFOS		
SAFAL		✓
SAFUSS		✓
SAFSS		✓
EXEC		
L&A		✓
P&B		
S&T		
SAF/SPE		
TC		
REGISTRY		
COMM		
RF		✓

~~SECRET~~
~~HANDLE VIA BYEMAN~~
~~CONTROL SYSTEM~~

[Redacted]

Beale

~~SECRET~~

~~HANDLE VIA DUEMAN~~

~~CONTROL SYSTEM~~

25X1

SECRET
[Redacted] INFO CORRECT FOR ADM YOWELL,
LADDOX FOR PAYLOADS DIVISION, FROM GENERAL RULFA
SUBJECT: LOW ORBIT FLINT II;
REFERENCE: YOUR MESSAGE DATED 1 FEB 68

1. I AGREE THAT WE SHOULD EMPHASIZE PPAR TEST STEPS TO IMPROVE INTEROPERABILITY OF EXISTING OVERHEAD FLINT COLLECTORS. WORKING LEVEL DISCUSSIONS BETWEEN ADMIRAL YOWELL AND MY STAFFS ARE ALREADY UNDERWAY ON THIS SUBJECT. ADMIRAL YOWELL AND I PLAN TO REPORT TO YOU ON NEAR-TERM INTEROPERABILITY BY JUNE AS YOU HAVE REQUESTED.

2. THE RANGE OF PROGRAM ALTERNATIVES OUTLINED IN PARA 3 OF YOUR MESSAGE ARE CONSISTENT WITH THE ALTERNATIVES WE HAVE BEEN PURSUING. I HAVE NO PROPOSED CHANGES AT THIS TIME.

3. I AM RECOGNIZING DELETION OF IMPLEMENTATION OPTION 2 DISCUSSED IN PARA 4C AFTER SYSTEM REQUIREMENTS ARE DEFINED. THE SYSTEM INTEGRATOR, WHETHER GOVERNMENT OR PRIME CONTRACTOR, MUST DEFINE INTERFACE SPECIFICATIONS AND ALLOCATE SYSTEM LEVEL REQUIREMENTS DOWN TO THE SUBSYSTEM LEVEL, SUCH AS PAYLOADS AND ANTENNAS. GOVERNMENT PROGRAM OFFICE EXPERTISE IS EXTREMELY IMPORTANT IN DIRECTING THIS PROCESS. ONCE THIS TASK IS COMPLETED, INJECTING AN ADDITIONAL LAYER OF GOVERNMENTAL MANAGEMENT IN THE REQUIREMENT OF THESE SYSTEMS IS AN UNNECESSARY COMPLICATION OF LITTLE VALUE.

4. REGARDLESS OF WHICH APPROACH IS SELECTED FOR THE SLD WE ARE PREPARED TO DISCHARGE OUR RESPONSIBILITIES AS THE LAUNCH VEHICLE INTEGRATOR FOR PAYLOADS INTO THE SHUTTLE AND WILL WORK WITH ALL INVOLVED ORGANIZATIONS AS WE CURRENTLY DO.

5. WE ARE NOT ABLE TO SUPPORT A BRIEFING ON THE OVERALL CONCEPT OF OPERATIONS AND THE SLD/CORRON SUB UTILIZATION FORCE DURING THE WEEK OF 4 MARCH AND REQUEST THAT THE DATE BE POSTPONED UNTIL 18 MARCH.

REVA 45 FEB 68
SECRET
BT
#1748

DISTRIBUTION		
	A	I
SAFOS		
SAFAL		✓
SAFUSS		✓
SAFSS		✓
EXEC		
L&A		✓
P&B		✓
S&T		✓
SAF/SFE		✓
TC		✓
REGISTRY		
COMM		
RF		✓

~~SECRET~~

~~HANDLE VIA DUEMAN~~

~~CONTROL SYSTEM~~

~~SECRET~~

~~HANDLE VIA BYEMAN~~

Beal

ITN 8589
1212Z 88
FM JCRC
TO DIA
INFO
1212Z 88
FM JCRC
TO DIA
INFO

CONTROL SYSTEM DISTRIBUTION		
	A	I
SAFOS		
SAFAL		✓
SAFUSS		✓
SAFSS		✓
EXEC		
L&A		✓
P&B		✓
S&T		✓
SAF/SPE		✓
TC		✓
REGISTRY		
COMM		
RF		✓

AA / 10 / pu

SECRET 1212Z FEB 88 CITE COGNAC 8255
INFO 81804
HANDLE VIA SYSTEM CHANNELS DELI

ERRATA/HARR: 81804 FOR KULPA

FROM YOWELL
SUBJ: LOW-ORBIT ELINT MIX
REF: A, CITE 8185

1. THE SABIC PROGRAM OPTIONS AND RESPONSIBILITIES OUTLINED IN REFERENCE (A) HAVE BEEN REVIEWED. I SUPPORT THE OBJECTIVES OF BOTH NEAR-TERM INTEROPERABILITY AND A CONCEPT OF OPERATIONS THAT WILL OPTIMIZE INDIVIDUAL PROGRAM STRENGTHS AND THE CAPABILITIES OF AN OVERHEAD ELINT MIX.

2. COMMENTS:

A. THE CURRENT INITIATIVES THAT ADDRESS INTEROPERABILITY ARE BEING REDIRECTED AS A HIGH-PRIORITY GOAL. GENERAL KULPA AND I HAVE DISCUSSED THIS SUBJECT AND PROPOSE A JOINT REPORT ON ACCOMPLISHMENTS AND PLANS ON 1 JUNE 1988.

B. THE CONCEPT OF OPERATIONS AND ITS SUCCESSFUL IMPLEMENTATION IS KEY TO ACHIEVING YOUR STATED OBJECTIVES. UNDER THE GROUND RULES ESTABLISHED, THERE WILL BE OVERLAP AND INTERACTION BOTH BETWEEN THE PROGRAMS AND WITH OTHER AGENCIES. AS THE OPS CONCEPT EVOLVES, IT IS CONSIDERED IMPERATIVE THAT MORE SPECIFIC DEFINITION OF MANAGEMENT AND INTEGRATION RESPONSIBILITIES BE DEVELOPED CONCURRENTLY. ADDITIONALLY, PARTICIPATION BY OTHER AGENCIES, INCLUDING TACTICAL USERS, WILL BE REQUIRED TO ENSURE AN OPS CONCEPT THAT IS RESPONSIVE TO ALL USERS.

C. OSD/NAVY SUPPORT FOR, AND CONGRESSIONAL APPROVAL OF, [REDACTED] WAS BASED PRIMARILY ON CAPABILITY AGAINST MOBILE EMITTERS, AIR, SEA AND SUBSURFACE. THIS CAPABILITY INVOLVES A COMBINATION OF FACTORS, INCLUDING ORBIT PHASING, INTERCEPT PROBABILITY, LOCATION ACCURACY AND REPORTING TIMELINESS. THE CAPABILITY WAS MEASURED AGAINST NAVY REQUIREMENTS IN BOTH SURVEILLANCE AND TARGETING SCENARIOS AND FOUND SUFFICIENT TO WARRANT A [REDACTED] PROGRAM. ANY TRADE THAT CONSIDERS REPLACEMENT OF PART OF THAT CAPABILITY MUST REASURE EFFECTIVENESS AGAINST THE SAME CRITERIA. I WILL BE PREPARED TO DISCUSS THIS IN MORE DETAIL AT THE BRIEFING.

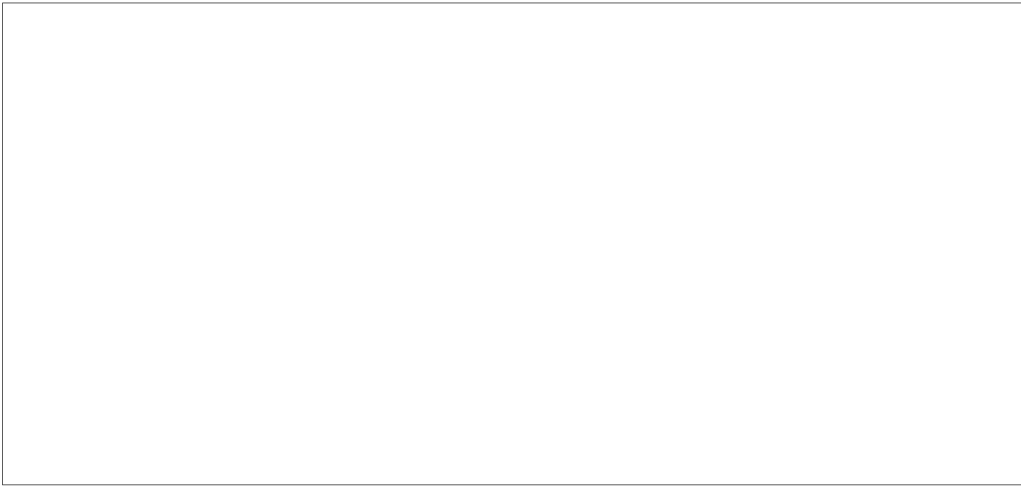
3. RECOMMENDED MODIFICATIONS:

- A. RECOMMEND NOT EXCLUDE NRL AS A POSSIBLE SOURCE IN SLD DEVELOPMENT OPTIONS (2) AND (4). PROGRAM C WILL BE PREPARED TO ADDRESS TRADEOFFS DURING THE BRIEFING.
- B. RECOMMEND BRIEFING DATE BE 12 MARCH 1988. THIS DATE HAS

25X1

25X1

ILLEGIB



~~SECRET~~
~~HANDLE VIA BYEMAN~~