



June 20, 1969

MEMORANDUM FOR DR. MC LUCAS

Minutes of HEXAGON Portion of the ExCom SUBJECT: Meeting of June 20, 1969

Members Present

Mr. David Packard

Mr. Richard Helms Dr. Lee A. DuBridge Deputy Secretary of Defense

Director of Central Intelligence Science Advisor to the President

Others Present

DDR&E

Dr. John L. McLucas

Director, National Reconnaissance

Office, Ex Officio

Dr. John S. Foster, Jr.

Dr. F. Robert Naka

Col. Lewis S. Norman

Chairman, HEXAGON Review Committee HEXAGON Review Committee (SAFSP) HEXAGON Review Committee (OSP/CIA)

Briefing

Dr. Naka briefed the recommendations from the Committee's review:

- Fund HEXAGON to meet the December 1970 initial launch date.
 - 2. Is ise the CORONA schedule to

FY 1970 - 5

FY 1971 - 5

FY 1972 - 2

from the present 6, 6, 0.

EXACON CORONA GAMBIT -



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3. Review in December 1969 the need for additional CORONA procurements.

Vugraphs used for the HEXAGON Review Committee's briefing are attached.

Conclusions

The Review Committee's recommendations were accepted. In addition, Perkin-Elmer was to be impressed with the need for cost control.

Discussion

Mr. Packard was upset by the apparent inability of the contractors and Government to project funding requirements. However, he felt that the funds must be found and without approaching Congress. Dr. DuBridge felt that the total program costs would rise if the program were either slipped or accelerated. Dr. Foster said that it was necessary to fund the program to insure intelligence collection. Mr. Helms indicated he would review management controls.

Dr. McLucas pointed out how some of the \$64M shortage could be met: GAMBIT had underrun \$30M in FY 1969, and the SI camera would not be accelerated. He also suggested that Admiral Nimitz be alerted to the need for cost controls.

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F. Robert Naka Chairman HEXAGON Review Committee

Attachment
Vugraphs - 10





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OBJECTIVES

- o ASSESS PROBABILITY OF MEETING HEXAGON INITIAL LAUNCH DATE OF DECEMBER 1970.
- DETERMINE CONFIDENCE OF MISSION SUCCESS OF INITIAL HEXAGON LAUNCHES.
- RECOMMEND A PLAN, CONSISTENT WITH THESE EVALUATIONS, WHICH
 OPTIMIZES EXISTING CAPABILITIES WITH REGARD TO:
 - o INSURING ADEQUATE COLLECTION OVERLAP
 - o AND MINIMIZING COST.

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MISSION SUCCESS PROBABILITY

O TOTAL SYSTEM RELIABILITY:

O LAUNCH VEHICLE - 95%
O SATELLITE BASIC ASSEMBLY - 90%
O SENSOR SUBSYSTEM - 88%
O RECOVERY OF EACH RV - 98%

O SUBSYSTEM EXPERIENCE:

- O COMMAND AND TELEMETRY SYSTEM EXPERIENCE ON GAMBIT
- O NEW FILM TRANSPORT SYSTEM
- O NEW RV'S --- BUT SCALED-UP DISCOVERER SHAPE
- O NEW PARACHUTE --- BUT SCALED-DOWN "PRECISION RECOVERY INCLUDING

 MANEUVERING ENTRY PRIME" PROGRAM CONFIGURATION

O FIRST FLIGHT:

- O NO ORBIT ADJUST ATTEMPT PRIOR TO RV #1 RECOVERY
- ADDITIONAL BATTERIES

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RECOMMENDATIONS

- o FUND HEAAGON TO MEET THE DECEMBER 1970 INITIAL LAUNCH DATE
- o REVISE YEARLY CORONA LAUNCH SCHEDULE OF 5-5-2-0
- o REVIEW NEED FOR ADDITIONAL CORONA BUY DEC 169

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INSURE ADEQUATE COLLECTION OVERLAP

o ADJUST CORONA LAUNCH SCHEDULE

		FY '70	FY 171	FY 172
0	PRESENT	6	4 + 2	0
o	RECOMMENDED	5	5	2

DECISION TO BUY CORONAS CAN BE DELAYED TO DECEMBER 1969 TO INSURE

24-MONTH LEAD TIME.

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CORONA STRETCH-OUT COST

(5-5-2-0)

- o \$14m FOR 6-MONTH PERIOD IN FY '72
- o NEEDED ONLY IF:
 - o HEXAGON ACTUALLY SLIPS, OR
 - o FIRST TWO HEXAGONS ARE TOTAL FAILURES

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PROBABILITY OF DELAY OF INITIAL LAUNCH

NOT MORE THAN:

1	MONTH		50%
3	MONTHS		75%
6	MONTHS	,	95%

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COST OF ADDITIONAL CORONAS (DECISION IN DEC '69)

0	3	UNITS	••	\$43M
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o 6 UNITS - \$84M

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CORONA SCHEDULE VS REQUIREMENT

	FY 69	FY	70	FY 7	1	FY 7	2
	Actual	Present	* Recom-** mended	Present	Recom- mended	Present	Recom- mended
	Aug	Jul	Ju1	Ju1	Ju1	None	Jul
	Sep	Sep	Oct	Sep	Oct		Oct
	Nov Dec	Nov	Dec**	Nov	Dec		
	Feb	Jan	Feb	Jan	Feb		
	Mar May	Mar May	May	Mar May	May		
Number of Missions	7	, 6	5	6	5	0	2
Search Satisfaction (80% Required Semiannually)	73%	70%	7 5%	7 5%	80%	28% (residu	54% 1a 1)
Search Satisfaction (with one failure)		55%	64%	6 3%	69%	14% (resid	35% ua 1)
•							

^{*} Present schedule - STB at 100 nm; UTB at 85 nm.

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^{**} Recommend UTB at 100 nm from Dec 1969 onward

COST IMPLICATIONS

FOR DEC 1970 LAUNCH

		FY 1970	FY 1971
PRESIDENT'S BUDGET		\$182.3M	\$192.8M (FYDP)
FIELD SUBMITTALS		\$246.4M	\$248.0M
DIFFERENCES:	•		•
SENSOR RELATED	\$35.5M		
SPACECRAFT RELATED	'\$14.1M		
SI CAMERA RELATED	\$10.6M		
OTHER	\$ 3.9M		Section Date of Agency converted

\$ 64.1M

\$ 55.2M

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EFFECT OF FUNDING LIMITATIONS

PERFUN-ELMER (\$87M REQUIRED IN FY 70):

\$10M REDUCTION - 6 MONTH STRETCHOUT

\$25M REDUCTION - 12 MONTH STRETCHOUT

SPACECRAFT, RV's (\$87.8M REQUIRED IN FY 70):

\$7.5M REDUCTION - 6 MONTH STRETCHOUT

\$7.5M REDUCTION - 12 MONTH STRETCHOUT

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