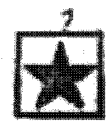


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UAP-12

MAR 25 1969

Honorable Richard Helms
Director of Central Intelligence
Central Intelligence Agency
Washington, D. C.

Dear Mr. Helms:

The Director of the Bureau of Budget sent you a memorandum dated March 22, 1969 (BIB 11663-69) addressing the HELIACOR issue. Inasmuch as an important consideration to the RCB view is an estimated "5 year savings" of \$905 million, I believe it appropriate to furnish the RCB cost assessment of the R.S. six options. This indicates that the savings, addressed in the same context as the RCB approach, would more likely be about \$285 to \$345 million. In specific relation to the FY 1970 budget, a reduction of \$78 million is indicated to be achievable, if HELIACOR were terminated as of April 1, 1969, with successively lower reductions if the program were terminated at later dates.

The RCB Comptroller assessment is reflected in the attachment. All costs anticipate that if CORONA were continued, there would be no improvements in the system, and there would be no provision for a 17" S/T camera program. If either or both assumptions are incorrect, any potential savings would be reduced significantly.

Sincerely,

ALLEN D. BYEMAN
Director

Attachment

cc: Mr. Robert Mayo, Director, RCB

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CORONA

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ECB "Equal Performance Options" - HELIACON
(Enclosure "TAB C" to 21 March 69 Memo to DCI)

Comparison of ECB Estimates with Cost Facts

	ECB			HCB		
	Launches	Unit Cost	Annual Costs	Launches	Unit Cost	Annual Costs
<u>Mix Option 1:</u>						
CORONA	7	\$ 14M	\$ 98M	6	\$ 15M	\$ 90M
G-3	6	23M	138M	7	20.2M	142M
Titan Impact			0			20M
Total			236M			252M

Notes: 1. HCB identified this mix as "currently approved" for FY 1970. The current approval is 6 CORONA and 7 GAGBIT for FY 1970.

2. The ECB costs exclude the impact on other Titan boosters, previously recognized in all cost tabulations.

3. Both sets of figures exclude any improvements in CORONA, and make no provision for a 12" S/I Camera.

	ECB			HCB		
	Launches	Unit Cost	Annual Costs	Launches	Unit Cost	Annual Costs
<u>Mix Option 2:</u>						
HELIACON	5	\$ 45M	\$225M	5	\$ 39.6M	\$198M
G-3	5	25M	125M	5	24.5M	122M
Total			350M			320M

Notes: 1. The HCB unit cost estimate for 5 HELIACON used the same unit cost as for 4.

2. The ECB refers to an April 1968 USIB source for the number of launches. The Ex Com November 1968 decision approved 4 HELIACON and 4 GAGBIT for FY 1973 and 1974. Accordingly, the ECB Option 2 reflects a higher number of launches than the Ex Com approval and the HCB 5 year program. If the 4 HELIACON/4 GAGBIT basis were used, the costs would be:

HELIACON	4	\$ 44.5M	\$178M
G-3	4	27.9M	112M
Total			290M

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Mix Option 2 vs. Mix Option 1:

1. If the corrected Mix Option 1 is appropriately adjusted to the \$252M annual cost, and using the RCB 5 HELIACON/5 GAMBIT Option 2 mix at appropriate costs, the difference would be \$70M annually, or \$350M for some 5 year period.

2. If, however, the Mix Option 1 at \$252M is compared to the official program of 4 HELIACON/4 GAMBIT, the difference is \$30M annually, or \$150M for some 5 year period, in comparison with the RCB estimate of \$470M (incidentally overstated, as the RCB arithmetic works out to \$570M).

RCB "Note":

The RCB note states that "the COMCHA/G-3 mix would probably produce an even greater savings due to the following factors:

	<u>Additional 5-year savings</u>
Surveillance requirements can be met with 4 G-3 missions per year in mix option #1	- 115
HELIACON would probably require 5 missions rather than 4 in each of the first 2 years in mix option #2 as the system is maturing	- 90
Additional HELIACON development costs	<u>= 30</u> - 235

These three factors would produce a total cost differential of \$670M plus \$235M or \$905M over a 5-year period."

Addressing each of these RCB points in sequence:

If option 1, as corrected, were adjusted to 4 G-3 missions per year, (instead of 7) there would be a difference of \$30M per year, or \$150M for some 5-year period.

If HELIACON were based on 5 missions rather than 4 in each of the first 2 years, the difference would be \$42M, not \$90M (again, the RCB overlooked the unit cost differences in their calculations). In any event, this is an unrealistic "savings," as the official program is 4 in each of these two years.

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The ECB estimate of \$30M for additional HELIXON development costs is evidently based on a statement on page 3 that a "program slippage of 3 to 6 months will probably occur." There has been no request for, or change in, the objective October 1970 first launch date. Accordingly, this is a speculative added cost by EEL.

From a total 5 year "savings" standpoint, then, using an option of 6 CONORA and 4 GAMBIT versus 4 HELIXON and 4 GAMBIT would "save" in some 5-year period about \$110M vs. the ECB estimate of \$90.5M. The term "some 5-year period" is used herein, because the 5-year period would start when a level-off recurring cost year were reached (estimated to be FY 1973 at the present time). For example, the current official planned launches by fiscal year are:

	CONORA	HELIXON	GAMBIT
FY 1970	6	-	7
FY 1971	4	4	5
FY 1972	-	4	5
FY 1973	-	4	4
FY 1974	-	4	4

To adjust to the ECB "program" of 6 (or 7) CONORA and 4 GAMBIT in the near-term would require a negation of the reasons for the Ex Com establishment of the current GAMBIT schedule. Incidentally, on Page 3, the ECB states "The CONORA mix will probably not require more than 6 CONORA's and 3 GAMBIT-3's," so there is a ECB inconsistency between page 3 and Tab C. If 6 CONORA and 3 GAMBIT's were planned per year, the "some 5-year savings" would be about \$285M.

L.I. 1970 Budget Considerations:

This should be a more pertinent consideration than "some 5-year savings." In February 1969, revised costs and "savings", if HELIXON were terminated as of 1 March 1969 were furnished for the ECB/CSD discussion. Inasmuch as the program was not terminated by 1 March, and about \$30 million per month costs are being incurred at this time, the estimated \$90M budget reduction would now approximate \$70M against a 1 April termination date, \$50M against a 1 May termination date, etc.

This is emphasized, because other material from ECB on potential reductions in the FY 1970 budget indicate considerably higher "savings" for a HELIXON termination.

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