NRO APPROVED FOR RELEASE **DECLASSIFIED BY: C/IART** DECLASSIFIED ON: 1 OCTOBER 2012



37 NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

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 (BYE 11663-69) addressing the HEXAGON issue. Inasmuch as an important consideration to the BOB view is an estimated "5 year savings" of I believe it appriate to furnish the NRO cost assessment of the BOB mix options. This indicates that the savings, addressed in the same context as the BCB approach, would more likely be In specific relation to the FY 1970 budget. is indicated to be achievable, if HEXACON were terminated as of April 1, 1969, with successively lower reductions if the program were terminated at later dates.

The NRO 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 12" S/I camera program. If either or both assumptions are incorrect, any potential savings would be reduced significantly.

Sincerely,

Director

Attachment

Mr. Robert Mayo, Director, BOB

DOD DIRECTIVE \$200.10 DOES NOT APPLY

NRO APPROVED FOR RELEASE
DECLASSIFIED BY: C/IART

DECLASSIFIED ON: 1 OCTOBER 2012

TOP CLUME: SOUTHOUR VIA BY ENGAN

EOB "Equal Performance Options" - HEXAGON (Enclosure "TAB C" to 22 March 69 Memo to DCI)

Comparison of BOB Estimates with Cost Facts

, · · · · · · · · · · · · · · · · · · ·		ВОВ			NRO		
	Launches	Unit Annual Cost Costs		Launches	Unit <u>Cost</u>	Annual Costs	
Mix Ontion 1:				:			
CORONA	7			6			
G - 3	· 6			7			
Titan Impact	•						
Total			9	• ,			

- Notes: 1. BOB identified this mix as "currently approved" for FY 1970. The current approval is 6 CORONA and 7 GAMBIT for FY 1970.
 - 2. The BGB 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.

		вов			NRO		
	Launches	Unit <u>Cost</u>	Annual Costs	Launches	Unit <u>Cost</u>	Annual Costs	
Mix Option 2: HEXAGON G-3 Total	5 5			5 5			

- Notes: 1. The BOB unit cost estimate for 5 HEXAGON used the same unit cost as for 4.
 - 2. The BOB refers to an April 1968 USIB source for the number of launches. The Ex Com November 1968 decision approved 4 HEXAGON and 4 GAMBIT for FY 1973 and 1974. Accordingly, the BOB Option 2 reflects a higher number of launches than the Ex Com approval and the NRP 5 year program. If the 4 HEXAGON/4 GAMBIT basis were used, the costs would be:

HEXAGON G-3 Total 4



TOP STOREY MANDLE VIA DYEMANY CONTROL SYSTEM

COPY / OF 5 CO? "S
PAGE / OF 3 FA E3

NRO APPROVED FOR RELEASE

DECLASSIFIED BY: C/IART

DECLASSIFIED DY: CHART
DECLASSIFIED ON: 1 OCTOBER 2012

TEP SECRET HANDLE VIA DYEMAN

Mix Option 2 vs. Mix Option 1:

l. If the corrected Mix Option I is appropriately adjusted to the annual cost, and using the BOB 5 HEXACON/5 GAMBIT Option 2 mix at appropriate cos s, the difference would be annually, or some 5 year period.

2. If, however, the Mix Option 1 at the is compared to the official program of 4 HEXAGON/4 GAMBIT, the difference is annually or for some 5 year period, in comparison with the BOB estimate of (incidentally overstated, as the BOB arithmetic works out to

BOB "Note":

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

Additional 5-year savince

Surveillance requirements can be met with 4 G-3 missions per year in mix option #1

HEXAGON would probably require 5 missions rather than 4 in each of the first 2 years in mix option #2 as the system is maturing

Additional HEXAGON development costs

These three factors would produce a total cost differential of over a 5-year period."

Addressing each of these BOB 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 the per year, or for some 5-year period.

If HEXAGON were based on 5 missions rather than 4 in each of the first 2 years, the difference would be not (again, the BOB 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.

COPY___OF_S_COPIEST

WATER VIA SVENIA PAGE 2 OF 3 PA 27

CONTROL SYSTEM SAFSS 13-yer 2 6-24-6-9

NRO APPROVED FOR RELEASE DECLASSIFIED BY: C/IART DECLASSIFIED ON: 1 OCTOBER 2012

TOP SECRET MADE VIA NUMBER OF STEEL

The BUB estimate of for additional HEXAGON 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 BOB.

From a total 5 year "savings" standpoint, then, using an option of 6 CORONA and 4 GAMRIT versus 4 HEXAGON and 4 GAMRIT would "save" in some 5-year period about the same of the same of 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:

	•		CORONA	HEXAGON	GAMBIT
FY 1970			6	•	7
FY 1971			4	4	5
FY 1972	•	. *	-	4	5
FY 1973		•	 .	4	4
FY 1974		•		Ĺ	À

To adjust to the BOB "program" of 6 (or 7) CORONA 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 BOB states "The CORONA mix will probably not require more than 6 CORONA's and 5 GAMBIT-3's," so there is a BOB inconsistency between page 3 and Tab C. If 6 CORONA and 5 GAMBIT's were planned per year, the "some 5-year savings" would be about

F.Y. 1970 Budget Considerations:

This should be a more pertinent consideration than "some 5-year savings." In February 1969, revised costs and "savings", if HEXAGON were terminated as of 1 March 1969 were furnished for the BOB/OSD discussion. Inasmuch as the program was not terminated by 1 March, and about per month costs are being incurred at this time, the estimated budget reduction would now approximate \$78M against a 1 April termination date, against a 1 May termination date, etc.

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

eadle va Syzaan

COPY_/_OF_COPIES

DIMMEN PAGE 3_OF_2_PATES

TOB CERRET

SAFSS Jay 12 42 4-54