

(unclassified not reviewed for chron)

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MEMORANDUM

THE WHITE HOUSE  
WASHINGTON

See HAK Haig Chen  
query

~~TOP SECRET/CONTAINS CODEWORD~~

August 22, 1971

This is dated. When  
did it land?  
HAK

MEMORANDUM FOR HENRY A. KISSINGER

FROM: A. Haig 

SUBJECT: FROG/EOI

Dr. David has taken a new cut at the FROG/EOI issue. I am sure this resulted from urging by Shultz following your meeting with Shultz and Packard. Smith has a copy of the David memo and is completing the memo for the President in which he is attempting to objectively lay out all conflicting views.

David has also requested Smith to show him a copy of your memorandum to the President on this subject, insisting that he wants to be sure that the cases for and against the various systems are put forth in balanced form. I have told both Wayne and Kennedy that we do not make a practice of circulating these memos to interested parties and to suggest that David call you on this bureaucratic problem.

Feelings are running so high on this issue that you may wish to make an exception and let Wayne coordinate your memo to the President with Shultz and David to be sure that there's no inference that we loaded the deck.

Wayne said that after reviewing David's new paper, the original of which is attached, that he has not changed his view that we should proceed with EOI.

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*ij chron*  
August 22, 1971

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THE WHITE HOUSE

WASHINGTON

August 19, 1971

MEMORANDUM FOR

Henry Kissinger

Subsequent to our discussion on satellite reconnaissance, you have received a number of inputs from various sources. I am concerned that you and the President have all the feasible options before you in considering this matter. The option described in the attachment has been omitted in the correspondence I have seen. Basically, it proposes a photographic satellite to gain experience with near-real-time pictures and delays the large expenditures for the array satellite until its design can be based on evaluation of actual returns from an operational system. I believe this is a realistic option which should be under consideration along with others.



Edward E. David, Jr.  
Science Adviser

Encl.

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THE WHITE HOUSE

WASHINGTON

August 19, 1971

MEMORANDUM FOR

The President

SUBJECT: Near-Real-Time Photographic Satellite

You have been asked by Secretary Laird to endorse the procurement of the Electro-Optical Imaging (EOI) version of a near-real-time photographic satellite. His memorandum does not mention an alternative approach of considerable merit which we have evaluated and which I believe must be made one of the options which you consider.

This alternative approach is a Film Readout version (FROG) of the presently operational GAMBIT satellite. This possibility for a near-real-time photographic satellite is based on a technology proven in operational systems, namely, GAMBIT, HEXAGON, Lunar Orbiter, [ ] and otherwise. FROG costs less than [ ] as much to develop and [ ] less to operate than EOI. It would be available in early 1974, about two years before EOI. It meets all requirements stated by USIB for such a system.

The FROG approach has collateral advantages: it provides at a modest cost and at an early date a near-real-time photographic product. Working with that product would give us a basis for judging its utility in providing you with timely intelligence. Moreover, we can with that experience establish sound requirements for the more expensive EOI system. This approach would also permit a period of additional development of the yet-to-mature EOI technology. FROG's lower cost will impact to a lesser extent SIGINT resources at a time when there is a growing recognition of their value particularly in ocean surveillance, electronic warfare, electronic countermeasures capabilities, and communication intercept.

GAMBIT HEXAGON ZAMAN

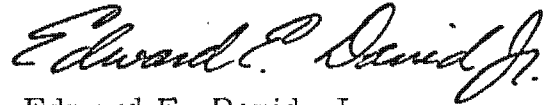
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I propose therefore that you explicitly consider FROG as an option in obtaining a near-real-time system. Should you require it, more information on FROG can be made available.



Edward E. David, Jr.  
Science Adviser

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