Approved For Release 2002/06/17 : CIA-RDP78B04747A000700020019-3

D-R-A-F-T

NPIC/P&DS/D/6-1580
14 September 1966

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

THROUGH: Chief, Development Branch, P&DS

SUBJECT: Recommendation for an [redacted] "Change of Scope" on the GEMS Project with the [redacted]

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1. The objective of the GEMS project is to determine how well the image quality of mission photography can be assessed (objectively) by comparing it with GEMS. This project was funded for [redacted] (FY-1966). One large, integral part of the work is to make in the laboratory 1024 GEMS to be used as the basic GEMS matrix to selectively compare against mission photography on a comparator. Production of this large GEMS matrix has not been initiated but is scheduled to begin very soon. It will cost approximately [redacted] of the existing funds. A GEMS viewer to use this many GEMS has been estimated to cost [redacted]

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2. Recently, [redacted] has suggested a technique which, if feasible, would eliminate the need for such a large GEMS matrix, not only in the prototype system to be developed under this contract, but in subsequent operational systems. The proposed technique, if feasible, would require only a few GEMS (perhaps as few as 6-10). This technique suggests that the operator himself could make "optical" GEMS in real-time for comparison against his mission material rather than him having to make a selection from the 1024 GEM matrix as designed in the system now under development.

Declass Review by NIMA/DOD

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3. This alternate GEMS technique appears to be technically sound, but it has not been investigated experimentally in the laboratory. Therefore, [redacted] has proposed a ten-week laboratory feasibility study of this potential technique for [redacted] It is not desirable to use any of the funds allotted against the current research because if the proposed alternate technique proves to be not feasible, we would want to continue as originally planned on the large matrix.

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4. It recommended that the proposal be accepted and that the research be funded by a change of scope to their existing research. It is also recommended that this be on a priority basis because we would want to prove or disaprove the proposed technique before any funds were expended on production of a large GEMS matrix.

[redacted]
Imagery Systems Section

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Distribution:
Original + 1 - Addressee
1 - Chief, DB
3 - P&DS/DB

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ILLEGIB

AMDS/DB TYPING SLIP

Subject: Change of Scope on GEMS Grant

Classification: Conf

Project No. 99740 6

Originator: [redacted]

Date 12 Sept

		Initials	Date
(1)	Unit Leader	RJJ	12 Sept
(2)	Type Rough	C&C	13 Sept 66
(3)	Section Chief	RJJ	14 Sept
(4)	Chief DB		
(5)	Asst. for P[redacted]	15/	
X (6)	Originator [redacted]		
(7)	Type Smooth		
(8)	Section Chief		
(9)	Chief, DB		
(10)	Asst. for P&D		

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Dick—

Sounds good—

I'll back you up—

made only one change—

in your "English"

STAT

[redacted] My God!

RES.

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