

File
0406

SECRET

NPIC/P&DS-6-097
11 October 1966

MEMORANDUM FOR: Director, National Photographic Interpretation Center

ATTENTION: Chief, Logistics Branch, SS

THROUGH: Chief, Support Staff, NPIC

SUBJECT: Request for Approval of Change in Scope on GEMS Development Project with [redacted]

REFERENCE: Chief, Administrative Staff, O/DSI Memorandum of 4 February 1966 "Approval of R&D Activities."

25X1

1. In 1965, NPIC contracted with [redacted] for Graded Estimate Measuring Samples (GEMS) Development for [redacted]. The objective of the project is to determine how well the image quality of mission photography can be assessed by comparing it with GEMS. One large, integral part of the work is to print in the laboratory 1024 GEMS to be used as the basic GEMS matrix to selectively compare against mission photography on a GEMS comparator. Production of this large GEMS matrix has not been initiated but is scheduled to begin very soon; the matrix above will cost about [redacted]. A GEMS comparator designed to use this many GEMS has been estimated to cost [redacted] whenever it would be developed.

25X1
25X1

2. [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 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 his having to make a selection from the 1024 GEM matrix as designed in the system now under development.

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 not to be feasible, we would want to continue the large matrix as originally planned.

Declass Review by
NIMA/DOD

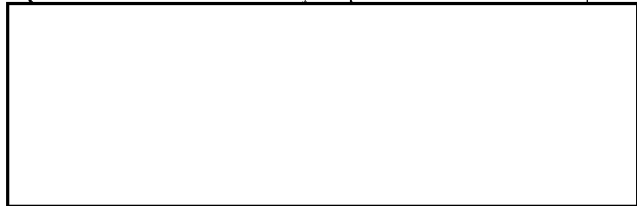
SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

25X1
25X1
25X1
25X1
25X1

SECRET

4. It is recommended that the change in scope be funded from FY 1967 R&D funds on a priority basis because the proposed technique should be carried out before the production of a large P&DS matrix.



25X1

Colonel. USAF
Assistant for Plans and Development, NPIC



18 OCT 1966

APPROV

DATE:

ARTHUR C. LUNDAEL

Director

National Photographic Interpretation Center

Attachment:

1 - Catalog Form

2 - 

Distribution:

Original and 1 - Addressee

1 - Ch/SS/NPIC

1 - CS/LB/SS

1 - Sec. WDE

3 - P&DS (DB)

NPIC/P&DS/DB



(11 October 1966)

SECRET