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5 May 1966

25X1 PSF -- ANAMORPHIC SYSTEM FOR  HIGH-POWER STEREOVIEWER

1. There is no current project in existence which will render this Project Suggestion unnecessary.

25X1 2. This attachment to the  High Power Stereoviewer will allow the operator to obtain differential magnification between perpendicular axes of the optical field of this instrument. This permits stereo pairs with certain distortions to be fused by the operator. This characteristic is totally lacking in existing High Power Stereoviewers.

3. The present equipment is inadequate in that it does not permit stereoscopic fusion of imagery taken from a large angle of obliquity.

4. The existing equipment is presently totally inadequate to perform the requirement described in # 2 and 3 above.

5. The High Power Stereoviewer is used for detailed analysis; however, when the operator is studying a stereoscopic image taken from a large obliquity angle, stereoscopic fusion over a considerable area of the image is impossible. The lack of this capability detracts from the usefulness of this instrument.

6. N.A.

7. It is most definitely probably that a sufficient improvement will be made because anamorphic systems have been fabricated for other optical instruments; e.g., the  Zoom 70.

8. No, there will be no changes in the characteristics of other equipment as a result of this project.

9. No other practical alternative methods are available to accomplish the necessary task in a reasonable time frame.

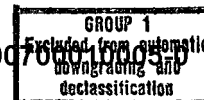
25X1 10.  is the estimated R&D cost.

11. The estimated time for completion of the R&D effort is 18 months from date of project assignment.

12. The first production units can be expected in two years.

25X1 13. The estimated unit cost for production quantities of this item is

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14. Approximately thirty units will be required by the Center.
15. There is no known R&D effort that will decrease the value or need for this project.
16. This project will not significantly increase the maintenance cost of a High Power Stereoviewer and it will not decrease the life expectancy of a unit.
17. Yes.

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Proof of Need for a Project to Support a Proceed Recommendation  
from the Evaluation Committee,

For Equipment Prototype Development;

(Answers should be estimates based on previously performed tests, outside experts' opinions and experience of members of P&DS.)

1. Is there presently a project in existence which will render this Project Suggestion unnecessary?
2. What is the performance limit of present equipment for each characteristic which is anticipated to be improved?
3. Is present equipment inadequate in any of these characteristics for present work and if so by how much?
4. Is present equipment inadequate in any of these characteristics for future work; if so by how much and what is the date for the future requirement for which present equipment will be inadequate?
5. Is it clearly a part of the Center's mission to rectify the stated inadequacy? Justify your reply by quoting from mission statements if possible.
6. Is it necessary to improve all of the characteristics listed in reply to question one but not listed as inadequate in reply to question two or three?

7. Is it probable that a sufficient improvement can be made to meet the inadequacies listed in questions two or three? State the estimated numerical improvement and the source of the estimate.
8. Will there be changes in other characteristics of the equipment as a consequence of the desired improvement in some characteristics? If so, what are they. Should there be an investigation of the possible changes, during the first phases of the project to determine if these changes in other characteristics are tolerable?
9. Are there any alternative methods of achieving the required performance improvements? List them, state after each whether or not the alternative method should be investigated as being a possible better means of achieving the improvement, during the early phases of the project.
10. What is the estimated cost of the R&D effort?
11. What is the estimated time of completion of the R&D effort?
12. Approximately when would the first production unit be delivered?
13. What is the estimated cost of each production unit to the Center?
14. Approximately how many units will be required by the Center?

15. Is there an R&D Project or other work going on that will decrease the value or need for this project?
16. Will the project materially increase the maintenance cost or decrease the life of a unit? If so should this cost factor be investigated in early phase of the project?
17. Should the Project Suggestion become a Project?

PROJECT SUGGESTION ROUTING SHEET (PSRS)

For Anamorphic System for High Power Stereoviewer

Project Suggestion Title \_\_\_\_\_

Instructions:

- a. At each numbered step a copy of the updated PSRS shall be sent to the Designee except in steps 10 and 11.
- b. Use charge # <sup>99245-6</sup> ~~009701~~ when working on any Project Suggestion.

1. PSRS originated by Designee of Eval. Com. Chmn. on 8 April 1966  
Date

2. To Eval. Com. Chmn. for Proceed/Stop decision by Committee

Proceed

Date of decision 18 April 1966

Stop

3. To Assistant for Plans and Development for review

Disagree - Proceed

Date of review \_\_\_\_\_

Agree - Stop

4. To Eval. Com. Chmn. for assignment to Branch

Assigned to Dev. Br. Branch; Date 3 May 1966

5. To Assigned Branch Chief for Investigator assignment

Assigned to Mr.  on 3 May 1966; Rec. 6 May 66

Investigation to be completed by \_\_\_\_\_

6. To Investigator to gather data and information

Investigation completed on \_\_\_\_\_

7. To Eval. Com. Chmn. (thru Br. Chief) for Recommendation

Recommend Proceed; Project title \_\_\_\_\_

\_\_\_\_\_ ; Assign to \_\_\_\_\_ Branch

Recommend Stop

8. To Assistant for Plans and Development for decision

Drop Project Suggestion

Date \_\_\_\_\_

Originate Project

Signature \_\_\_\_\_

9. To Administrative Assistant for project number assignment

Project number \_\_\_\_\_ ; Date \_\_\_\_\_

10. To Designee for origination of PSRM

PSRM to originator and PSRM, PSF, PSRS copies to file \_\_\_\_\_  
Date

11. To Assigned Branch Chief

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*Rec'd 8 Apr 1966*  
*[Signature]*

1. Project Suggestion Form (PSF): Date of Suggestion: 7 / Apr / 1966
  - a. Upon completion of this form, route to Chairman Evaluation Committee, P&DS.
  - b. Use time charge 99245-6 when working on any project suggestion.

2. Name of Suggestor  Location P&DS

3. Brief Description of Suggestion (Use Reverse Side if Necessary):

To design, develop, and fabricate an anamorphic system for the  High Power Stereoviewer.

4. Brief Explanation of Need for This Improvement:

An anamorphic system for the Zoom 70 microstereoscope has been built and production units are being fabricated. Because of the increasing quality of the photography, the high power stereoviewer is rapidly replacing the Zoom 70 and the same requirement for an anamorphic capability exists for this instrument as for the Zoom 70.

*questionable*

*Analysis of trade offs*  
*is - recommended*

/ Suggestor (Signature)

DO NOT WRITE IN THIS SPACE

Selected Project Suggestion Title: \_\_\_\_\_

*Rec'd 8 Apr 66*  
*[Signature]*

1. Project Suggestion Form (PSF): Date of Suggestion: 7 / Apr / 1966  
a. Upon completion of this form, route to Chairman Evaluation Committee, P&DS.

b. Use time charge 99245-6 when working on any project suggestion.

2. Name of Suggestor [Redacted] Location P&DS

3. Brief Description of Suggestion (Use Reverse Side if Necessary):

To design, develop, and fabricate an anamorphic system for the [Redacted] High Power Stereoviewer.

4. Brief Explanation of Need for This Improvement:

An anamorphic system for the Zoom 70 microstereoscope has been built and production units are being fabricated. Because of the increasing quality of the photography, the high power stereoviewer is rapidly replacing the Zoom 70 and the same requirement for an anamorphic capability exists for this instrument as for the Zoom 70.

*questionable*

*Analysis of trade offs*  
*go - recommend*

[Redacted Signature Box]

/ Suggestor (Signature)

DO NOT WRITE IN THIS SPACE

Selected Project Suggestion Title: \_\_\_\_\_