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NPIC/P&DS/D/6-740
25 January 1966

MEMORANDUM FOR: Assistant for Photographic Analysis, NPIC
Chief, Image Analysis Division, CIA

SUBJECT: Advanced Rhomboid Attachment for [redacted]
Zoom 70 Stereomicroscope.

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1. The Plans and Development Staff has received an Advanced Rhomboid Attachment for the [redacted] Zoom 70 Stereomicroscope developed under contract with the [redacted] [redacted] Although the attachment completely meets the design goals and extends the life and usefulness of the existing Zoom 70 microscopes, it is our position that the basic design of the instrument can be considerably improved.

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2. Specifically, the present external configuration should be slightly changed to permit complete rotation of the Zoom 70 within its support ring. This re-design would allow more versatile utilization of the instrument.

3. The second, or advanced, model should also include a sliding reflecting prism. This would permit the photo-interpreter to simply slide this prism out of the optical path so that the Zoom 70 could then be used in the monoscopic mode without the necessity of removing the rhomboids.

4. Another improvement that should be considered is the addition of removable objective lenses which could increase the magnification from 2x to 3x. If this could be accomplished it would further extend the useful life of the basic stereomicroscope at a minor increase in cost.

5. The time for delivery of a new (Model II) prototype, with these improvements would be about one year. Therefore, this time factor should be taken into consideration when deciding upon the number of units of the present attachment you purchase.

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Declassification Review by
NGA/DoD

[redacted]

Assistant for Plans and Development, NPIC

Distribution:

Orig & 1 - Addressee

1 - CIA/ID

Approved For Release 2004/11/30 : CIA-RDP78B04770A000400010016-1

NPIC/P&DS/DB: [redacted] (25 Jan 66)

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GROUP 1
Excluded from automatic
downgrading and
declassification

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NPIC/P&DS/D/6-721
14 January 1966

MEMORANDUM FOR: Chief, Procurement Division, OL

THROUGH: Chief, Support Staff, NPIC

ATTENTION:

SUBJECT: Request for Proposals on Production of
Advanced Rhomboid Prototype

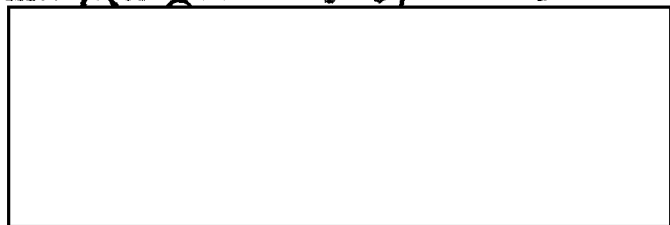
1. It is requested that copies of the enclosed engineering drawings entitled "Advanced Rhomboid Prototype" be sent to the organizations listed on the enclosed sheet. Those organizations which are interested in building production quantities may submit proposals any time before 25 February 1966.

2. The request for bid should prohibit the bidder from using the enclosed drawings for any purpose other than the preparation of this bid and the drawings should be returned.

3. Bids should be solicited for the following production quantities 50, 75, 100, 200, 300, and 400. A delivery schedule should be included with each quantity.

4. This would be a contract; however, the work to be performed is unclassified.

5. NPIC plans to commit monies towards this project during FY-1966.



Assistant for Plans and Development, NPIC

Enclosures:

- (1) List of prospective contractors
- (2) Drawings

Distribution:

- Orig & 1 - Addressee
- 1 - Ch/SS/NPIC
- 2 - DB/P&DS

NPIC/P&DS/DB:

USA

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OPTICAL SPECIFICATIONS FOR ADVANCED STEREO

RHOMBOID PROTOTYPE

5X1 The following specifications are to be met in conjunction with the Zoom 70 Stereomicroscope on which the rhomboid attachment will be used.

- 5X1
1. Resolution of 300 LP/MM or greater
 2. Rhomboid magnification of 2X
 3. Field of view of one-half of the values listed on page 10 of the catalog # 53-70-01-01
 4. Optical performance (aberrations) will be consistent with the Zoom 70.
 5. Light efficiency will be greater than 20%.

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