

SECRET
(When Filled In)

TECHNICAL BACKGROUND PROCUREMENT INFORMATION

I. Contractor

A. Name and address: To be selected from bids to be submitted by the attached
list of contractors.

B. Evaluation of previous performance: _____
All are considered competent.

II. Brief description of this procurement: Modulated-Light Film Viewing System.

Estimated total amt. [REDACTED]

25X1A

A. Deliverable items: prototype - Modulated-Light Film Viewer System. A
system for direct dynamic viewing by transmitted light, of positive and/or
negative film transparencies.

B. Is this procurement for other than a standard, "off the shelf" or slightly modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? Yes If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments: _____

The concept is so new that the requirement for drawings should be held in
abeyance until perhaps the Second Prototype.

C. Will contract cover a period of more than 90 days? Yes
If "yes", are progress reports desired? Yes If so, indicate frequency, content and number of copies desired: _____

Monthly letter reports stating "status", "progress", "future plans" and an
accounting of funds expended. Final Report describing the entire development
and results obtained.

D. Is any Government-owned property to be provided to the contractor?

No If so, list and indicate its availability (where, when, etc.) _____

SECRET
(When Filled In)

DECLASS REVIEW by NIMA/DOD

SECRET
(When Filled In)

E. Is any special tooling involved? No

F. Security:

1. Association with the Sponsor is [REDACTED]

25X1A

2. The specifications and/or drawings are N.A.

3. The item is Unclassified.

4. Contractor personnel known to be aware of this proposed procurement:

None

5. Other security information

III. Reasons for selection of this source. If other sources were considered, indicate results. If no other sources were considered, list the reasons why this firm is considered to be uniquely qualified to perform this work.

All of the bidders have potential capability to accomplish this task.

IV. Technical contact [REDACTED]

25X1A

Name

Telephone

In the event additional space is required, use the reverse side(s) of this form, with a reference to the item number to which the comment applies.

SECRET
(When Filled In)

Many

25X1A

Design Objectives

Modulated Light Viewing table

1. Ultimate replacement for the
basic P. I. film-viewer.

a. Example  940 MC.

25X1A

b. Characteristics

1. 9" x 40" viewing area
2. maximum intensity 2000 ft/candle
3. Illumination variable 40-100%
4. Film handling
 - a. one roll 9 1/2" x 500'
 - b. 2 rolls 70mm to 5" x 500'
5. Optimized mechanical design for film-loading and winding
6. X-Y mechanical carriage

(over)

for microscope - microstereoscope
optics

7. Held down by longitudinal
tension and independent cover
glass.

✓ New Model

computer

1. 10" x 20" viewing area
2. General Illumination of entire area at 2000 ft 40-100%.
3. Modulated Illumination ^{10x10"} comparable to [REDACTED] system except that no observable flicker is acceptable

- a. maximum intensity, 2000 ft lam
- b. Color, 3500°K
- c. modulation 0-100%

a. function of transmission and frequency

b. Spot size variable from .1 mm to 5 mm

c. scan isotropic or equivalent

d. scan area variable from 10" x 10" down to .25" x .25" with attendant increase in illumination intensity (2000 ft. to 3200000 ft)

check this >

and this >

2

New Model

Approved For Release 2002/01/02 : CIA-RDP78B04747A002500050026-2

c. Scan area locatable any where within the 10×10 " modulation zone - desired to be automatically correlated to movement of the microscope

4. Film handling capacity - same as 940 MC

5. Improve film loading and winding from human engineering standpoint -

a. "drop-in" film loading

b. one reversible crank manual spooling for each roll

(1). anti backlash

(2). inertial damping

(3). tension control

(4). low friction

Approved For Release 2002/01/02 : CIA-RDP78B04747A002500050026-2

3/ New Model

6. X-Y meck carriage for microscope - microstereoscope,

needs improvement

a. increase load carrying capacity

b. improve smoothness of travel

c. provide simple, easily controllable, single control operated X-Y brake - typically on, press to release

d. provide low starting inertia

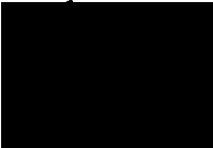
e. provide automatic damping to increase in proportion with velocity - provide means for varying the damping

4/.

7. Develop a hold down
system - possibly by vacuum, or
tension in orthogonal directions
that will maintain flatness within
of the film within $\pm .001$ " for
high magnification viewing.
a list different types of film

Notes,

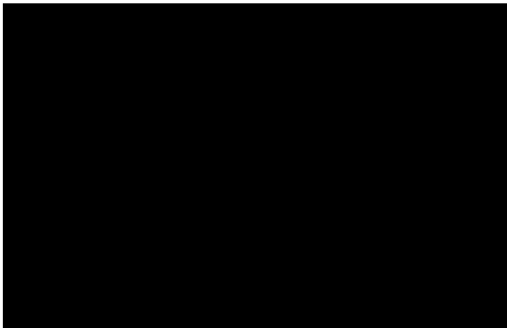
1. Scanner - Modulation system
may be optical or CRT - however
it is anticipated that optical one is
~~not~~ required.

2. Table viewer is to become
std item of equipment - should
be feasible for mfg in quantity
at  a unit - if exception
is taken to this propose the quantity,
unit price.

3. Operating and replacement economy of light source ^{modulation} system must be considered

4. Dodging should be retained during high mag viewing

25X1A



*File Copy*SECRET
(When Filled In)

TECHNICAL BACKGROUND PROCUREMENT INFORMATION

I. Contractor

A. Name and address: [REDACTED]

25X1A

B. Evaluation of previous performance: ExcellentII. Brief description of this procurement: A feasibility study of a
modulated-light, Film Viewing SystemEstimated total amt. [REDACTED]

25X1A

A. Deliverable items: Final report and monthly letter reports

B. Is this procurement for other than a standard, "off the shelf" or slightly modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments: _____

Drawings not applicable

C. Will contract cover a period of more than 90 days? Yes
If "yes", are progress reports desired? Yes If so, indicate frequency, content and number of copies desired: _____

Monthly letter reports describing progress and future plans.Monthly reports should include an accounting of expenditures.Five (5) copies are required.

D. Is any Government-owned property to be provided to the contractor?

No If so, list and indicate its availability (where, when, etc.) _____

SECRET
(When Filled In)

SECRET
(When Filled In)

E. Is any special tooling involved? No

F. Security:

1. Association with the Sponsor is [REDACTED]

25X1A

2. The specifications and/or drawings are None

3. The item is No and item

4. Contractor personnel known to be aware of this proposed procurement:

25X1A

5. Other security information None

III. Reasons for selection of this source. If other sources were considered, indicate results. If no other sources were considered, list the reasons why this firm is considered to be uniquely qualified to perform this work.

25X1A

[REDACTED] was one of three companies chosen to perform parallel studies of the subject because they have depth and breadth of capability in electronic scanning and modulation and are qualified to design new and special components that may be required by the concept.

IV. Technical contact [REDACTED]

Name

Telephone

25X1A

In the event additional space is required, use the reverse side(s) of this form, with a reference to the item number to which the comment applies.

SECRET
(When Filled In)