



25X1

2 February 1966

U. S. Government  
Washington, D.C.

Attention: Technical Representative

25X1

Subject: Task Order No. [redacted]  
Basic Agreement [redacted]

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Reference: Minutes of Meeting - Prototype Modulated Light Film  
Viewing Tables - [redacted] tr. 17 January 1966

Gentlemen:

During the review of the Modulated Light Table Program on January 6, 1966, a list of action items was generated. Two of these items were requested by government representatives. [redacted] indicated in the minutes of the meeting that we would report in writing the impact of making these changes if it were significant before additional action was taken. The following is the current status of these two items.

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- 1. Increasing the width of the film loading door.

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[redacted] found that it could further widen this door one inch on each side without any significant weakening of the console body. Consequently, this change has been made in both prototypes.

- 2. Improve the film transport.

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Four sources for a new film drive were originally mentioned by the Government on January 6th. In a subsequent contact on January 7th, the Government stated that one of these companies, [redacted] should not be considered. Three others were contacted:

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[redacted] - did not respond to three attempts to discuss our application.

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[redacted] - had a system with requirements slightly different than ours. They were not interested in building a drive for our application.

Declassification Review by  
NGA/DoD

U. S. Government  
Washington, D. C.

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[redacted]

In their Variscan system, they have a drive which can handle film up to 9 inches in width and at slow speeds between .005 and 4 inch/second and at fast speeds between .01 and 50 inches/second (velocity and tension controlled). Costs for our application could not be obtained over the phone, but a visit will be made to [redacted] on February 3 or 4 (in the course of another trip) to obtain an estimate. 25X1

A quick estimate was also made by [redacted] engineers as to the cost and feasibility of using techniques similar to those used in our "Stabilite" to achieve the goal of a 0.25 to 50 inch per second film drive speed range. There is some question as to the space available in the current console for using these techniques and a more detailed analysis would be required to resolve this question. However, it is estimated that the cost for this application of these techniques would be over [redacted] 25X1

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In the light of the Government's stated desire not to fund a new film drive (in discussions with [redacted] on January 14th and with [redacted] on January 20th), we have decided not to change the basic film drive on either the first or second light table. A change is being made in the gear box for the current drive and other modifications will be made, if necessary, to assure that the film is not damaged when changing from one speed to another. 25X1

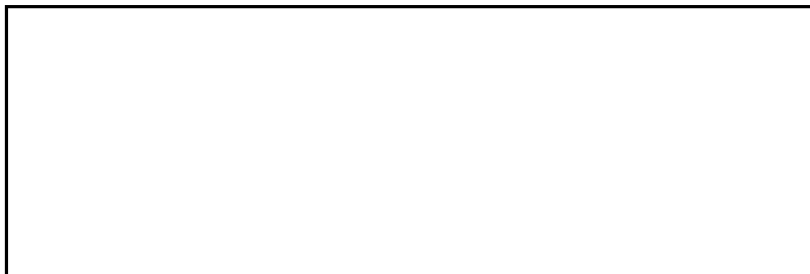
Very truly yours,

[redacted]

ebj

cc: Contracting Officer

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17 January 1966


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Washington, D.C.

Attention: Technical Representative

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Subject: Task Order No.   
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Reference: Instruction and Maintenance Manual - Preliminary for  
Prototype Modulated - Light Film Viewing Table (Model No.  
PR-3600 A)  M-2070, Two (2) copies dated 4 January  
1966

Gentlemen:

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 hereby wishes to confirm the delivery of Instruction and Maintenance Manuals, referenced above, to the Technical Representative on 6 January 1966 in accordance with Delivery Requirements of the Task Order.

Very truly yours,

25X1



ebj

cc: Contracting Officer

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**Modulated Light Film Viewing Table  
Performance Check List  
January 6, 1966**

This table is designed for viewing of photographic transparencies illuminated by a kinescope raster. The raster spot intensity is varied automatically to effect large area contrast compression. The mechanical structure has been designed to facilitate both film manipulation and observation.

This equipment is the first engineering prototype delivered under Contract

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Kinescope and Kinescope Controls

Type	17" spherical, flat face
Viewing Area	9-1/2 x 12 inches
Scan	Box
Spot Size	With diffuser <u>800 mils</u> Clear <u>50 mils</u>
X-Ray Protection	0.1 rem/wk 0 to >0.1
Raster Size	Controllable max. 9-1/2 x 12 inches min. 1 x 1 inch
Brightness	1000 ft. Lamberts ( <u>&gt;1000 max.</u> ( <u>500 min.</u> )
Contrast	_____
Focus	_____
Raster Position	Manual Semi-Automatic
Scan Rate	Crystal or Phase lock 30 frames/sec Free running - adjustable

Microscope and Mount

25X1	Microscope Type	<input type="checkbox"/> Stereo Zoom 7x to 30x
	Mount	Pantograph (retain focus <u>+5 mils</u> (rigidity <u>20 mils (est.)</u> )
	Raster Follow	Semi-Automatic

Dimensions (in inches)

Length	73
Width	29-1/2
Pedestal Height	29-3/4
Viewing Table Height	33
Knee Room	23

Film Transport

Film Size  
Loading  
Film Drive

70mm, 5", 9"  
Reversible  
Manual  
Automatic 0.6"/sec to 12.9"/sec  
Foot/Manual  
Manual

Transport Control  
X-Ray Glass Control

Viewing Table

Rotation  
Tilt

$\pm 177^\circ$   
0-55°  
Fixed Speed  
Removable  
No film compensation  
Positive locking

Diffuser  
Balance  
Brake

Controls

Console - operational controls

Master Switch  
Raster Size  
Illumination  
Modulation Selector  
Position Control  
Viewing Mode  
Film Transport  
X-Ray Glass  
Elevation

Pedestals - Adjustments

Scan Rate  
Cathode Voltage  
Various Engineering Adjustments

Protective Measures/Safety

High Voltage Protection -

Back door - interlocks

Front door - key locks

Viewing Area - micro-

switch on hinged cover

X-Ray Protection -

Leaded glass cover

Leaded fiber tube housing

Film Transport Constraints -

Stop to reverse

Slow to stop

Load - horizontal position  
only

Installation Requirements

Power

115v 15 amp. AC, single phase, w/ground

Floor Space

8'x 8'incls chair and clearance

Ambient illumination

Determine Experimentally

Handling and Unloading

Weight 1000 lb. estimated  
(skid mounted on casters)

Post Delivery Checkout

Work space for \_ days

Power - light - heat

Data Package

Instruction Manual

Electrical Schematics

Performance Check List

Logistics Recommendations

Maintenance

Spares

Service contract for 6 months

On call time and materials contract

Peculiar parts only

"A"  
MODE

"B"  
MODE