

SECRET

CONFIDENTIAL

UNCLASSIFIED

Approved For Release 2004/11/30 : CIA-RDP78B04770A000400020023-2

CONTRACT INSPECTION REPORT

CONTRACT NO. []

TASK NO. []

25

TO:

CONTRACT ADMINISTRATION & SETTLEMENT
BRANCH/PD/OL

DATE

20 December 1966

INSPECTION REPORT NO. (If final, so state)

11

ESTIMATED COMPLETION DATE

1 February 1967

NAME OF CONTRACTOR

Declass Review by NGA.

TYPE OF COMMODITY OR SERVICE

Improved Anamorphic Viewing System

THE CONTRACTOR IS ON SCHEDULE

YES

NO

THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS YES NO IF ANSWER IS "NO" ADVISE RECOMMENDATION AND/OR ACTION OF SPONSORING OFFICE, ON REVERSE HEREOF. IF KNOWN, INDICATE MAGNITUDE OF ADDITIONAL FUNDS INVOLVED.

PER CENT OF WORK COMPLETED - 30%

PER CENT OF FUNDS EXPENDED - 92% 2 Dec. 66

HAS AN INTERIM REPORT, FINAL REPORT, PROTOTYPE, OR OTHER END ITEM BEEN RECEIVED FROM THE CONTRACTOR DURING THE PERIOD? YES NO (If yes, give details on reverse side.)

HAS GOVERNMENT-OWNED PROPERTY BEEN DELIVERED TO CONTRACTOR DURING THIS PERIOD? YES NO (If yes, indicate items, quantity, and cost on reverse side.)

INCENTIVES

IS THIS AN INCENTIVE CONTRACT
IF YES, CHECK TYPE

YES

NO

COST

AWARD FEE

PERFORMANCE

DELIVERY

NOTE:
USE REVERSE SIDE FOR COMMENTS.
FINAL REPORT MUST CONTAIN INCENTIVE EVALUATION.

OVERALL PERFORMANCE OF CONTRACTOR

1. OUTSTANDING

4. ABOVE AVERAGE

7. UNSATISFACTORY

2. EXCELLENT

5. AVERAGE

3. VERY GOOD

6. MINIMUM ACCEPTABLE

IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSATISFACTORY OR MINIMUM ACCEPTABLE INDICATE REASONS ON REVERSE SIDE.

RECOMMENDED ACTION

CONTINUE AS PROGRAMMED

WITHHOLD PAYMENT PENDING SATISFACTORY PERFORMANCE

TERMINATE

OTHER (Specify)

IF TERMINATION IS RECOMMENDED OR IF THIS IS A FINAL REPORT PUT COMMENTS ON REVERSE IN NARRATIVE FORM ON CONTRACTOR'S PERFORMANCE AND CERTIFY THAT ALL DELIVERABLE ITEMS UNDER THE CONTRACT HAVE BEEN RECEIVED. THESE INCLUDE, WHERE APPLICABLE, THE FOLLOWING:

ITEM	REC'D	DOES NOT APPLY	ITEM	REC'D	DOES NOT APPLY
PROTOTYPES			MANUALS		
DRAWINGS AND SPECIFICATIONS			FINAL REPORT		
PRODUCTION AND/OR OTHER END ITEMS			SPECIAL TOOLING		
			OTHER GOVERNMENT PROPERTY		

DATE OF LAST CONTACT WITH CONTRACTOR

16 December 1966

SIGNATURE OF INSPECTOR

DIVISION

1

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X1

5X1

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 NARRATIVE REPORT

 INTERIM FINAL

Inspection Visit of 16 December 1966:

1. Attendees

- a.
 b.
 c.
 d.

2. supplied the information that has expended on this effort as of 2 December 1966 and expects to complete the project for an estimated cost of . He was again instructed to submit his information to the contracting officer.

3. The assembled eyepieces were inspected and found to be quite satisfactory with the following exceptions:

- a. There was vignetting or a non uniform image transmission at the edge of the field of view. This can be corrected by alignment of the lower pechan prism.
- b. The anamorphic magnification control moves too freely in that it can drift when released. The friction within the control (Drag) will be increased to eliminate the drift.
- c. The instrument had not been optically aligned and some optical run-out appeared upon rotation of the anamorphic axis control. Optical alignment will eliminate this problem.
- d. A ghost image appears in the field of view. The pechan prisms will have to be modified slightly to eliminate this difficulty.
- e. This system, like the original anamorphic eyepieces, has slight field curvature (Downward in the middle of the field of view). claims this can't be eliminated.
- f. The anamorphic magnification scale was not accurate. When the scale indicated an anamorphic magnification of 2.0 the actual magnification was 2.175 or almost a 9% error. Because of this large error the scale will have to be re-engraved.
- g. It is impossible to perfectly superimpose grids in the object & eyepiece planes. claims this is due to the pechan prism misalignment and will be corrected upon their alignment.

4. The following measurements were made and recorded.

- a. Resolution (Resolution target with 25 LP/MM Steps)

	LEFT OPTICAL TRAIN		RIGHT OPTICAL TRAIN	
	W/o Anamorphics	With Anamorphics	W/o Anamorphics	With Anamorphics
on axis	125 LP/MM	150*	150	150
.77field	100	125*	150	125

*The only explanation for this increase in resolving power is the possibility of some optical correction of the Zoom 70 by the anamorphic eyepieces.

b. Illumination. The anamorphic eyepieces in combination with the Zoom 70 transmit 42% of the light that is transmitted by the Zoom 70 without the eyepieces. When the anamorphic magnification is increased to the maximum setting this transmission factor is reduced to 25%.

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CONTRACT INSPECTION REPORT Continued

c. **Interpupillary Distance.** The measured distance varies from 52 to 89 MM.

5. believes that manufacturing the pechan prisms out of water white glass will improve the intensity and color of the transmitted light, but, this investigation probably will not be undertaken under this contract.

6. Elimination of the above mentioned problems will require about 3 weeks. An inspection visit is planned for early January 1967.

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