CONTRACT INSPECTION REPORT

CONTRACT NO. [redacted]

TASK NO. 25X1

TO:

DATE: 10 November 1969

INSPECTION REPORT NO. *(If final, so state)*: 14 (Final)

ESTIMATED COMPLETION DATE

NAME OF CONTRACTOR [redacted] 5X1

TYPE OF COMMODITY OR SERVICE: Phase II Image Correlation Test Program

THE CONTRACTOR IS ON SCHEDULE ☒ YES ☐ NO

PER CENT OF WORK COMPLETED - 100%

PER CENT OF FUNDS EXPENDED - 100%

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.

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 ☒ YES ☐ NO

IF YES, CHECK TYPE

☒ COST ☒ AWARD FEE ☒ PERFORMANCE ☐ DELIVERY

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

OVERALL PERFORMANCE OF CONTRACTOR

1. ☐ OUTSTANDING
2. ☐ EXCELLENT
3. ☐ VERY GOOD
4. ☒ ABOVE AVERAGE
5. ☐ AVERAGE
6. ☐ MINIMUM ACCEPTABLE
7. ☐ UNSATISFACTORY

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

☒ CLOSE OUT

☐ OTHER *(Specify)*

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		X	MANUALS		X
DRAWINGS AND SPECIFICATIONS		X	FINAL REPORT	X	
PRODUCTION AND/OR OTHER END ITEMS		X	SPECIAL TOOLING		X
			OTHER GOVERNMENT PROPERTY		X

DATE OF LAST CONTACT WITH CONTRACTOR

25X1

FORM 12-67 1897 PREVIOUS EDITION ☐ UNCLASSIFIED ☒ CONFIDENTIAL ☐ SECRET (12-36)

NARRATIVE REPORT ☐ INTERIM ☒ FINAL

1. In FY 1965, Contract [redacted] "Multiple Image Integration Study," was initiated with [redacted] in two phases. Work effort under Phase I concluded in early 1967 that a much reduced scope for Phase II was indicated. In April 1967, three tasks costing [redacted] (Plus award fee) were substituted for Phase II, under the heading "Image Correlation Test Programs." These were intended to support the design of the prototype Automatic Stereo Scanner [redacted] In November 1967, the contractor delivered the three final report [redacted] for Phase II.

2. The disposition of Phase I was delayed by contractual discussions and correspondence concerning allocable charges. In April 1968, the Office of Logistics informed the contract officer that the funds for Phase II were inadvertantly deleted as the result of a contract amendment in May 1967. Following resolution of the contract dispute, in June 1969, this Division made note of this deletion in NPIC/TSSG/DED-1628-69 to Ch/SC&PS and requested that the contractor be reimbursed from any available source for the approved invoices.

3. Through oversight during the drawn-out contractual discussions and other difficulties with the related [redacted], a Final Inspection Report on [redacted] was never completed, and the contractor has not received a fee. The contract amendment for Phase II specifies an award fee schedule from 6% to 10%, with cost and performance incentives. To the best of my knowledge, no cost overruns occurred on Phase II. My overall performance award evaluation is GOOD, which carries a 9% fee under the contract amendment for Phase II. I certify that all deliverable items under Phase II were received by NPIC/TSSG/RED on 14 November 1967, and request that the contractor receive an appropriate fee.

4. The following descriptions summarize in more detail my evaluation of the three tasks conducted by [redacted] on Phase II:

Task 1 - Distortion Feedback Servo Loop Stability

a. This task employed a set of transparencies (with varying contrast and image content) and an [redacted] PDP-1 computer/scanner to generate simulated correlation error signals. Under this task, a new computer program was developed which was operated upon by these simulated signals to reduce the "error" to a negligible level.

b. The results of this task were mixed. Measured pull-in ranges in this simulation varied from 19% to 100%. Since the design goal of 10% was subsequently reconfirmed by [redacted] the usefulness of these simulated results to the stereo scanner is debatable. A May 1968 [redacted] report on Contract [redacted] confirms this. Several other inconclusive results are relieved by one quite useful conclusion; namely, that a system removing translation errors before acting on the other distortions would provide greater pull-in range and stability. This sequencing has since been applied to the Stereo Scanner and to the High Precision Stereo Comparator correlation system. Finally, the report provides information about the effect of the raster spot size in the correlation system phototube.

Task 2 - Registration Correction Accuracy

a. This task was intended to derive test data with which to evaluate the magnitude of "averaging" errors when measuring with an automatic image registration system.

b. The results indicated that the registration precision of the experimental EROS correlator is something better than ±7 microns at photo scale; however, the correlator itself cannot be used as means to derive measurements of building heights, when only first order transformation capability is present in the system. Considering the difficulty of implementing the EROS, [redacted] has done a good job of studying the effects of averaging registration. (continued)

Continuation of Inspection Report #998485 (Phase II Image Correlation Test Program - [redacted]

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Task 3- Image Dissector Scan Distortion

a. This task consisted primarily of the modification of the video system breadboard previously assembled to aid in the design of the Automatic Stereo Scanner (Contract [redacted]

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b. Preliminary data in this task resulted in an early decision to implement the closed loop servo system in the Automatic Stereo Scanner.

5. Total Authorized Funds: Phase II - [redacted] plus award fee. 25X

25X [redacted]

Project Monitor
TSSG/RED/SRB