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|--|--|--|--|-------|----------------|
| <b>CONTRACT INSPECTION REPORT</b>  |  | CONTRACT NO.<br><input type="text"/>   | TASK NO.<br><input type="text"/>                       |       |                |
| TO:<br>CONTRACT ADMINISTRATION & SETTLEMENT<br>BRANCH/PD/OL  |  | DATE<br><b>8 March 1966</b>  | INSPECTION REPORT NO. (If final, so state)<br><b>3</b> |       |                |
| NAME OF CONTRACTOR<br><input type="text"/>   |  | ESTIMATED COMPLETION DATE<br><b>1 April 1966</b>   |  |       |                |
| TYPE OF COMMODITY OR SERVICE<br><b>Phase 1 Design Study and Demonstration</b>  |  |  |  |       |                |
| THE CONTRACTOR IS ON SCHEDULE<br><input type="checkbox"/> YES <input type="checkbox"/> NO  |  | THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS <input checked="" type="checkbox"/> YES <input type="checkbox"/> 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 - <b>80% - Phase 1</b>  |  |  |  |       |                |
| PER CENT OF FUNDS EXPENDED - <b>80% - Phase 1</b>  |  |  |  |       |                |
| HAS AN INTERIM REPORT, FINAL REPORT, PROTOTYPE, OR OTHER END ITEM BEEN RECEIVED FROM THE CONTRACTOR DURING THE PERIOD? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If yes, give details on reverse side.)                             |  |  |  |       |                |
| HAS GOVERNMENT-OWNED PROPERTY BEEN DELIVERED TO CONTRACTOR DURING THIS PERIOD? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If yes, indicate items, quantity, and cost on reverse side.)   |  |  |  |       |                |
| <b>INCENTIVES</b>  |  |  |  |       |                |
| IS THIS AN INCENTIVE CONTRACT IF YES, CHECK TYPE<br><input checked="" type="checkbox"/> COST <input type="checkbox"/> PERFORMANCE <input type="checkbox"/> DELIVERY  |  | NOTE:<br>USE REVERSE SIDE FOR COMMENTS.<br>FINAL REPORT MUST CONTAIN INCENTIVE EVALUATION.   |  |       |                |
| <b>OVERALL PERFORMANCE OF CONTRACTOR</b>   |  |  |  |       |                |
| 1. <input type="checkbox"/> OUTSTANDING  | 3. <input type="checkbox"/> ABOVE AVERAGE      | 5. <input type="checkbox"/> BELOW AVERAGE  | 7. <input type="checkbox"/> UNSATISFACTORY             |       |                |
| 2. <input type="checkbox"/> EXCELLENT  | 4. <input checked="" type="checkbox"/> AVERAGE | 6. <input type="checkbox"/> BARELY ADEQUATE  |  |       |                |
| IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSATISFACTORY OR BARELY ADEQUATE, INDICATE REASONS ON REVERSE SIDE.   |  |  |  |       |                |
| <b>RECOMMENDED ACTION</b>  |  |  |  |       |                |
| <input checked="" type="checkbox"/> CONTINUE AS PROGRAMMED   |  | <input type="checkbox"/> WITHHOLD PAYMENT PENDING SATISFACTORY PERFORMANCE   |  |       |                |
| <input type="checkbox"/> TERMINATE   |  | <input type="checkbox"/> 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<br><b>11 February 1966</b>  |  |  |  |       |                |
| SIGNATURE OF INSPECTOR<br><input type="text"/>   |  |  | DIVISION<br><input type="text"/>                       |       |                |
| INSPECTOR'S EXTENSION<br><input type="text"/>  |  |  |  |       |                |

Approved For Release 2004/07/29 : CIA-RDP78B04770A000200010036-1

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Declass Review by NGA.

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NARRATIVE REPORT

 INTERIM FINAL

The feasibility report on Phase 1 which was received the later part of December 1965 was evaluated and while most of report was well presented, several important points seem to require further expansion.

On 13 February 1966, the monitor had a telephone conversation with [ ] the Project Engineer, in which [ ] was requested to provide supplemental material to their feasibility report.

1. Informed [ ] that we are worried about the optimum performance of the proposed Viewer/Printer. The monitor requested more information on the combined response.

a. Requested graphs and explanatory text. On the graph, plot percent up the side and frequency across the bottom. Plot the MTF curve and the S/N curve plus a combined response curve for the following bandwidths 1, 5, 10, 20, 25 megacycles. If [ ] can find a better way to portray it - fine. We want to show the total overall gain in the output over input taking into consideration all factors: MTF, S/N, loss through processing, gamma control, etc.

b. The proposed Viewer-Printer is based on an input of 100 lines/mm or less. [ ] was told that they must plan on handling material up to 200 lines/mm resolution.

2. The monitor requested any information [ ] had on the successful application of the Image disector and follow spot technique. They were informed that NPIC had an earlier contract for the production of an instrument employing this technique but the contractor was unable to deliver the item. They were informed that the time required per output print was not a significant factor, but output quality is of prime importance.

3. The [ ] report leaves the impression that only two steps of contrast are used in computing their image elements. They were informed that anything less than 10 steps is unacceptable. [ ] was requested to supply additional material on this item.

4. The report mentions 1 mil or 1.5 mil as the spot size for "painting on" the output. The monitor requested they supply material indicating the spot size of the pickup referenced to the film plane.

5. The monitor asked if there would be interlacing of scan lines in the order of 8 or 10 to 1 in order to get a 4000 line system? [ ] stated that he was not using this technique. In slow scan the proposed printer would paint on one scan line at a time, side by side. The monitor requested a write up of this be included in the report.

6. The monitor requested that [ ] supply addition material on the dynamic range of illumination or the brightness range.

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7. The monitor informed [ ] that the earlier contract had planned to use Image Disector WX-30029 and [ ] plans on WL-23111. The earlier study reported that to increase the Signal to Noise ratio they would have to decrease the aperture area or increase the aperture width. That contractor found that to decrease size by a factor of 3 to satisfy the resolution requirement would reduce the S/N by 3 or require an increase in illumination by 3. Operating around 20 megacycles would require an illumination increase of 400 times, which was impossible.

The monitor asked for backup material to indicate their instrument would have the proper illumination.

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8. [ ] was requested to supply text to show that they could attain the small spot size that the system would require.

9. With varying density of 3.0 to 0.1, the resolution would probably be degraded somewhat in the order of up to 5 to 1. [ ] was asked if this would mean that portions of their display would only be about 800 lines? Further write up was requested on this subject.

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[ ] stated they thought the study phase of this contract had been completed and that it might take some time to get [ ] permission to open the study again. The project monitor requested [ ] to present all the above requested material in the form of a supplement to their Feasibility Study.

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