

UNITED STATES GOVERNMENT

Memorandum

TO : Director of Communications

OCE-M76-237
DATE: 4 June 1976

25X1 FROM :
Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report -- May 1976

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1. The contractor continued to indicate that he was experiencing difficulties in completing his equipment set-up for the Tandem Switch tests. A contractual amendment has been forwarded to the contractor establishing 7 June as the date to restart testing.

2. Funds in the amount of \$460K were provided for HATS on 14 May. Finishing touches were applied to the specifications which were subsequently forwarded to OL/PD on 18 May. The RFP was in the hands of the four prospective bidders by 21 May. A pre-bidders' conference is to be held on 3 June, and final responses are due on 11 June.

3. Frequency and telephone number assignments for two attache case mobile radio telephones intended for the D/CO were received from C&P Telephone Company via IRAC. The sets were programmed for the assigned telephone numbers, demonstrated, and issued to the D/CO.

4. Planning for secure voice and data for firmed up considerably during this period, and many long-lead time equipments were placed under procurement action. Final completion of the system is projected for October.

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5. A contract for \$261,283 was awarded to on 20 May for Phase II-A of the ITS-W system. This contract will result in the fabrication of breadboard and engineering prototype ITS-W terminals. Option B included in Phase II-A will provide for a digital Laserfax Model 600 modified for use with a KG-34 operating at 1.544 Mbps. This system will be installed as an operational test bed in the Washington, D. C., Area, five months ARO.

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6. The CDS preacceptance test plan was approved. Action was taken to purchase, subject to acceptance, some of the system hardware under the lease/purchase option of the contract. CDS operator and analyst training requirements were reviewed and plans were made to provide the necessary training courses.

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7. The technical evaluation of the AFT proposals were completed on 10 May. Clarification questions were submitted to the remaining four bidders allowing a response date of 1 June. A Compuscan OCR and M-40 Teletype, AFT components, were interfaced and are being used to program the OCR.

25X1 8. Error-control and modulation tests, begun in April, were continued on the [] HF path. The data acquired from these tests are being reduced for detailed analysis; however, the initial results of time-diversity modem operation shows a significant improvement in Character Error Rate (CER) over conventional FSK operation.

25X1 9. With the successful completion of the six-month training course, Messrs. [] were accepted and transferred to the AutoSpec career panel.

25X1 10. The [] satellite performed poorly during the month. Several spin-ups and long periods of large gain variations were noted. The [] satellite continued to operate without failure and base stations [] remained with that space segment for the entire month. Testing of the [] satellite continues; cutover for the [] should occur in mid-June.

25X1 11. The [] SC-1A installation was completed during the month. However, activation has been delayed until the antenna shed is redesigned to reduce excessive attenuation. A site survey at [] was also completed.

25X1 12. SC-1A terminals 0042 and 0043 were successfully tested and accepted for delivery at the manufacturer's plant []. The tests demonstrated the highest values of G/T ever achieved with the SC-1A, due to the new LNR paramp. Acceptance tests were also successfully completed on the PSK Demod Automatic Reacquisition Kit.

25X1 13. The SKYMUX program is progressing satisfactorily. Testing of the first article MX-113 multiplexer in all SKYMUX configurations is complete; additional testing is being conducted to verify proper operation with various mixes of KW-7's and KW-26's over both local and HF tail-end circuits. A rough draft of the production Acceptance Test Procedure has been received, and delivery of the first six production units is scheduled for 6 June. An additional 40 units have been ordered to satisfy the requirement for [] SKYMUX installations.

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14. The new CU-113 crypto control unit has been successfully tested on a 75-baud HF circuit at [redacted]. The test was run to determine the feasibility of using the KG-13 as a backup crypto device for RTTY circuits.

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15. The [redacted] shielded enclosure door problem at [redacted], which was caused by [redacted] has been resolved by a Ray Proof expert.

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16. Local and overseas distribution of the [redacted] Manual was completed during the month.

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16. A revised proposal from [redacted] was received for the production of 125 CK-42's. A management plan was developed, approved, and implemented. The first two milestones have been completed as scheduled with a contract award scheduled for 3 June 1976 when the Contracting Officer and the COTR will visit [redacted].

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17. COD advised CED on 26 May to proceed with refurbishing the [redacted] equipment. Action was taken immediately to start this effort with [redacted].

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18. Delivery and acceptance of 150 BS-59C units from [redacted], was completed in May. Also delivered and accepted were 100 BC-59B units from [redacted] and 75 RP-59A units from [redacted] of which four were rejected.

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19. Bid specifications for the SV-8 UHF transmitter and receiver were assembled and sent to prospective contractors. A prebid conference is scheduled for 1 June with the bid conference on 14 June. This will allow bid awards later in the month.

20. We were advised by OTS during the month that they are not recommending the [redacted] RS-711 signaling system for production. Their recommendation is for production of the [redacted] system.

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21. Procurement action was initiated for an Automatic Test Equipment (ATE) which will be installed at the Technical Support Branch, [redacted]. The system selected after several years of market research is the General Radio Model 1792-D. This system is computer controlled and is designed to test analog, digital, and hybrid printed circuit boards. The GR-1792-D can also be programmed to perform other testing

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procedures. A smaller companion ATE will also be procured for installation at the vault, [redacted] where it will be used to test crypto boards. The new Automatic Test Equipment will eventually absorb the workload now being performed by FIXIT, plus other functions. FIXIT has been in use for a number of years and has done a fine job but is now becoming very difficult to support due to bankruptcy and contract termination of its manufacturer, Systemation, Inc.

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22. The first shipment of SG-75A exciters was received from the field for the white noise modification to a Model "B." All printed circuit boards were tested by FIXIT and marginal components were replaced. These units were modified, aligned, and inspected for specifications. All units modified to date have met or exceeded original manufacturer's "specs." A schedule is now being prepared for field exchange.

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Distribution:

Original - D/CO; DD/CO; OC-EXA; OC-P&B; OC-IC (Archives)
1 - OC-O; OC-O/D
1 - OC-S; OC-CS