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UNITED STATES GOVERNMENT

Memorandum

TO : Director of Communications

OCE-M76-339

DATE: 6 August 1976

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report--July 1976

1. Mr. accompanied by Messrs. attended meetings at on 30 June and 1 July 1976 to review the status of the ITS-W program. demonstrated the digital version of the Laserfax to be used for the ITS-W terminals and confirmed that a test link, using digital Laserfax, will be installed between and Headquarters by 20 October 1976.

2. On 30 June, a contract in the amount of \$553,249 was awarded to Raytheon Data Systems Company, Norwood, Massachusetts, for procurement of the first two wideband digital microwave links of the Headquarters Area Transmission System (HATS). These links will interconnect Headquarters and NPIC via a repeater site at Included in the contract price was an optional training package. System delivery is scheduled for June 1977.

3. Plans and specifications for installation of a secure voice and data grid at the Building were completed this month and forwarded to GSA for implementation.

4. The first running of the CDS Pre-Acceptance Test (PAT) was completed. This run-through of the PAT was an effort on the part of to correct problem areas prior to the formal PAT beginning. In a meeting with Representatives on 29 July, we were informed there were 18 outstanding software problems. The first CDS VDU operator course began on 6 July. The series of VDU training courses will continue until early September. reported an additional schedule slippage with final acceptance now scheduled for approximately 1 November.

5. The AFT project moved along the first stages of software design and system integration during the month. Mr. the AFT programmer, is at the facility in working with their personnel on the initial system design. An Optical Character Reader (OCR) and M-40 Teletype equipment were shipped to and technical discussions were held on the equipment features and interfacing requirements.

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25X1 Several M-40 KDP technical and documentation problems surfaced during the discussions which hopefully will be resolved during a joint [] trip to [] 25X1

25X1 6. On 20 July, the tandem switch preacceptance tests were resumed at the [] Company plant in Dallas, Texas. On 24 July, the tests were stopped after a total of 30 problems were identified. On 26 and 28 July, meetings were held with the [] and his staff to review the preacceptance test problems. 25X1 [] admitted that [] Company has made mistakes and stated that he wants to provide a switch that functions properly. He added that an eight-point action plan will be implemented to provide a systems analysis, the hiring of a telephone consultant and a full-time systems analyst, the addition of two fixed head discs to the system, restructuring of the interdata computer operating system and disc driver, 25X1 the development of a "specific performance" test procedure, monitoring of the [] bulk core development, and the submission of bimonthly status reports. A total of 5 3/4 months will be needed to complete these eight points. On 29 July, a letter containing the above mentioned points and a new schedule was received from [] and accepted. 25X1

25X1 7. The Headquarters shielded enclosure installation team arrived on site in [] 22 July, and the installation is progressing smoothly. The new shielded enclosure for [] is in shipping channels. 25X1

25X1 8. Difficulties have arisen in obtaining a couriered shipment of the new shielded enclosure door for the [] enclosure in [] We are investigating methods of alternative means for shipping, with appropriate inspection, when the door arrives on site. 25X1

25X1 9. The contractor is progressing on the finish work for the new [] T-Site. Headquarters power engineers are scheduled to arrive on site in early August to install the power bus duct and complete the installation of the new generators and switchgear. If all goes well, the plant will be fully operational in September.

25X1 10. Major items of equipment have been ordered out for shipment to [] for the eventual installation of a RTTY on-line station in the new [] 25X1

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25X1 11. The [] satellite again performed
 25X1 poorly with several spin-ups and periods of instability
 scattered throughout the month. Cut-over to the [] 25X1
 25X1 satellite commenced at 0800Z, 19 July. By the end of the
 month, there were 14 terminals operating with the [] 25X1
 25X1 satellite including the [] base stations: []
 [] which had previously been operating
 25X1 with the [] satellite. Several Atlantic terminals
 25X1 must continue to operate with the ailing [] satellite
 since they are too far out of the satellite antenna pattern
 to receive a useful signal level.

12. SC-1A terminals #0046 and #0047 were tested and
 25X1 accepted for delivery from [] 25X1
 25X1 [] The installation of an SC-1A terminal was started
 at []

25X1 14. []-The MUX units were received at T&I and
 rejected. After some design changes, in-plant tests
 indicate the units now meet specifications. One complete
 25X1 system has been received at T&I and will be checked immediately
 following the []

25X1 15. []-The vendor delivered the units one week
 behind schedule. The COTR ran in-plant checks before ship-
 ment and the units performed satisfactorily. Detailed tests
 at T&I will be performed during the first week of August.

25X1 16. SKYMUX--Six MX-113's were received at T&I, four of
 which have been accepted. One of these will be installed at
 25X1 [] during August. The first article wiring harness for
 []s MX-113's was received. Six each SKYMUX patch panels
 were received from ADC. After T&I they will be shipped to
 Quanta Systems completing the GFE for six first article RR-113
 SKYMUX racks.

17. A sample PC card which provides keep-alive capability
 for the 651S-1 was received. The field was informed that Collins
 has converted to LED readouts on all new 651S-1's. All old
 units in our system will be modified for LED's, and we are

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examining the possibility of converting all units to the new keep-alive circuit as well.

18. The audio lease between [] was checked and did not meet specifications. The phone company is working on this problem.

25X1

19. Thirty-eight modified TLC-1's have been received from CED. They are being tested at [] and will be shipped to the field.

25X1

20. Mr. [] returned from his survey of radiation levels in South America.

25X1

21. Covert Engineering Division, Requirements Support Branch, realigned its personnel and changed its procedure for handling both operational and engineering projects. The objective is to increase their capability to respond more readily to operational requirements and to reduce the impact of operational requirements on each of the engineers.

22. July was an extremely busy month for operational requirements. [] terminals and forty-eight pieces of ancillary equipment were shipped compared to [] and 120 respectively for the entire third quarter of last calendar year. Thirty-nine SOR's and cables were completed in July compared to a total of 70 for the entire quarter of last year. The overdues on the suspense list hit a new low with two overdues out of 35 operational requirements and one overdue out of twelve non-operational requirements.

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23. Two internal production projects were initiated this month. Eleven CU-108 Control Units were requested, and 40 TA-7 alignment tools were produced. Additionally, two working models of a miniature version of the SV-8 are being prepared and an RS-200 microphone headset is being interfaced to the SV-8. A preliminary action plan for the CU(X)-37 universal control unit was prepared.

24. The Class A evaluation of the SOUTHCOM SC-130 tactical transceiver was completed in July. The evaluation report is being prepared for forwarding to COD.

25. Preliminary preparation of bid packages for external production of 75 RT-59A units was started in late July. The first 50 RT-59A units are being produced in-house.

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25X1 26. [] was provided with four GFE items for a
CY/K-3 contract.

25X1 27. SKYLINK Terminals were shipped to [] and 25X1
[] during July. Another Terminal is being processed
25X1 for shipment to [] during August. MSB and TSB personnel
are in the process of assembling seven SKYLINK Installation
Kits at the [].

25X1 28. Mr. [] reported to MSB on 26 July
25X1 to replace Mr. [] who will report to OL on
9 August for reassignment. Ms. [], OL 25X1
careerist, reported on 26 July for one-month OJT. Mr. [] 25X1
[] was assigned to TSB for training in the Repair &
Return Section.

29. Requisitions for the first month of the TQ are
below average. Only 45 requisitions have been processed
for direct procurement and stock replenishment. There have
been 181 field requisitions processed and 128 Headquarters-
initiated requisitions for field stations have been processed.

25X1 30. TSB welcomed their first COOP student this month,
Mr. [] who was assigned to the Repair & Return
Maintenance Section.

25X1 31. There was an increase in TECHREQ traffic and R&R
transactions this month with a total of 484 TECHREQS and
1,460 R&R transactions. Part of the R&R increase can be
attributed to the [] crisis which accounted for six
PRIORITY TECHREQS for SKYLINK support.

25X1 32. The SG-75 A to B modification program was implemented
this month with the shipment of six modified units, four to
[]

25X1 33. Mr. [] Engineering Tech, was trained
as an alternate TECHREQ Terminal Operator. The terminal is
now manned eight hours a day vice six with Mr. [] providing 25X1
coverage from 1430 to 1630 hours.



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