OD&E-0290-86
29 AUG 1986

MEMORANDUM FOR: Director of Information Technology

VIA: C/TCD/MSG/OD&E

FROM: [redacted] 25X1
Director of Development and Engineering

SUBJECT: Installation of LASERFAX Replacement System Prototype

1. Your assistance is requested for the installation of the Headquarters communications required for a demonstration of the LASERFAX Replacement System (LxR) Prototype. The prototype will demonstrate the feasibility of replacing the existing LASERFAX imagery transmission system with work stations capable of receiving, displaying, manipulating, and transmitting imagery with enhanced speed and quality. The installation and operation of the prototype is a highly visible, time critical project funded by the DDI with OD&E serving as the executive agent. [redacted] 25X1

2. The Headquarters work station will be installed in DI/OIR space in Room GH44. The installation of communications for the LxR prototype within the Headquarters building should be complete by 20 October 1986. The work station components are listed in Attachment 1 and the power and cooling requirements are listed in Attachment 2. An inspection of the proposed location was conducted with ESG/OIT personnel on 18 August and the facility appears to have adequate power and cooling. OD&E will provide a T1 microwave link, a KG-81, and the required modems in addition to the communication items listed in Attachment 1. The known support required from OIT is:

a. A location within a communications center for a KG-81 and two modems.

b. A line from the microwave termination point to the KG-81.

25X1 c. A line from the KG-81 location to workstation in GH-44. [redacted]

[redacted] [redacted] 25X1

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3. The Headquarters installation is being coordinated with ESG/OIT and preliminary discussions have already been held with [redacted] (communication issues) and [redacted] (COMSEC issues). ADP Security Procedures are being coordinated with Information Systems Security Division, Office of Security (ISSD/OS). [redacted]

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4. Point of contact for the LxR prototype installation is [redacted]

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[redacted]

Attachments:
As stated

CONCUR:

[redacted]

25X1

Chief, Telecommunications Division, OD&E

8/28/86
Date

OD&E-0290-86

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ODE/CSG/GED: [redacted] (21 Aug 86) 25X1

Distribution:
Orig --Addressee, w/atts
25X1 1 - [redacted] w/o atts
1 - TCD/MSG/OD&E, w/atts
1 - [redacted] GED/CSG, w/atts 25X1
1 - GED Chrono, w/o atts

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LASERFAX REPLACEMENT SYSTEM
PROTOTYPE CONFIGURATION

1. LxR Prototype: - Work Station Components

   a. SUN 2/160 Microcomputer with 71 MB disk
   b. 19 inch Landscape Color monitor (SUN equipment)
   c. Fujitsu Eagle 380 MB disk drive
   d. SORO Visor-D Continuous Tone printer
   e. MITEK 100T Laser Printer
   f. Imagitex 1085 Optical Scanner
   g. Eiconix Optical Scanner
   h. VME/Multibus Adapter, SUN 2/160-OPT-17
   i. Systek Datacom DCP8804-512, Communication Processor Board
   j. Coastcom D/I Multiplexer
      (1) 30036-003 Synchronous Data Channel Unit
      (2) 30012-001 Synchronous Data Channel Unit
   k. Avanti TS-2300 Interface Converter
   l. KG-81 Encryption Device, T-1 compatible

2. LxR Prototype will consist of 2 work stations. Each workstation will have one of each of the above components. The components occupy 40 sq. ft. including programmer's desk and equipment rack.

3. Approved open shelf storage will be available at both sites.

LASERFAX REPLACEMENT SYSTEM (LxR)
POWER AND COOLING REQUIREMENTS

1. Based on the data received from the contractors, the power requirements and heat production for an LxR work station are:

DEVICE	AMPS	POWER (watts)	HEAT (BTU/hr)
MONITOR	3	250*	850*
CPU	6	600*	2040*
IMAGE PRINTER	4	440*	1496*
DISK DRIVE	6	636*	2162*
SCANNER	5	575*	1955*
LASER PRINTER	8	850*	2890*
MULTIPLEXER	2	100*	340*
TOTAL	34	3451*	11733*

*estimate

2. The requirements assume single phase, 120 volt, 60 hertz power. The contractor suggests that two isolated, 20 amp circuits with single 20 amp locking plugs be provided. The equipment would then be plugged into power strips which would be provided by the contractor.