

1. In accordance with Master Contract NAS5-98144, C.7, Technology Refreshment Process, the technology refreshment services referenced below is hereby incorporated into this Delivery Order at a fixed price of \$10,782.65.

SWR #	Subject	Amount
EAEB 2NET 00	Cable Plant Expansion in B1210 for NASA/CRSP	\$10,782.65

2. SWR EAEB 2NET 00

The contractor shall provide the labor (including, but not limited to, engineering, configuration management, user coordination/scheduling, wiring/cabling and equipment installation) and materials necessary to install (10) dual Cat5 cable from the network hub in room 120 to room 146 and terminate in the Panduit box under the floor and install (16) duplex multimode fiber jumpers from the network hub in room 120 to room 146 and terminate in Panduit outlet box under the floor in B1201 for NASA/CRSP as identified in OAO proposal dated June 28, 2002.

a. The contractor shall perform the following tasks:

- 1) Install (10) dual Cat5 wires from network hub in room 120 to room 146 and terminate in Cat5 jacks and place in (5) Panduit boxes under the floor.
- 2) Install (16) duplex multimode fiber cables from network hub in room 120 to room 146 and terminate in (16) duplex fiber inserts and place in (8) Panduit boxes under the floor.
- 3) Install (1) LGX fiber panel in existing equipment cabinet in room 120.
- 4) Install (1) pack of 1000ST fiber panels and 32 multimode ST couplers in LGX fiber panel that was installed in item (3) above.
- 5) Terminate all fiber into ST connectors and place in fiber inserts under the floor in room 146 and in the 1000ST fiber panels in the LGX panel in room 120.
- 6) Terminate (20) Cat5 4-pair wires on 110 wiring blocks in room 120 next to existing network cabinet.
- 7) Install (13) single gang faceplates e/w (1) blank module on the Panduit boxes that were installed in item (1) & item (2) above.
- 8) Test and label fiber cables at both ends.
- 9) Test and label Cat5 wires at both ends.

b. The contractor shall provide the following material:

- 1) 4,500 FT of 4-pair Cat5 Plenum wire (CMP-00424BEL-5U-06)
- 2) 3,600 FT of duplex multimode fiber cable (370-949-FDDI-02)
- 3) 64 each P2020C-C-125 multimode ST connectors (118974)
- 4) 64 each cool cure consumables (142172)
- 5) 32 each C2000A couplers (088987)
- 6) 20 each 110C-4 connectors for 110 wiring blocks (073039)
- 7) 16 each IMO II PCB fiber insert (162979)
- 8) 13 each IMO II PCB blank module (148027)
- 9) 13 each IMO II PCB singlegang faceplates (148025)

- 10) 13 each Panduit outlet boxes (205872)
- 11) 10 each IMO II PCB dual T568A Cat5 jacks (148034)
- 12) 1 pack 1000ST panels for LGX (106730)
- 13) 1 each LST1U-072/7 termination shelf (106722)

c. Schedule: The completion of this effort shall be (4) four weeks after the receipt of a signed Modification.

3. Part II "Contract Administration Data", Item 4, is revised as indicated below to incorporate the increase of \$10,782.65 for these infrastructure upgrades:

4. TOTAL DELIVERY ORDER VALUE (through Mod No. 44)

Ordered Seats/Service Levels (Attachment A)	\$2,500,948.15
Catalog Actuals	\$87,819.69
Specialized Services	\$2,250.00
Infrastructure Upgrades	\$1,068,075.51
Sub-total	\$3,659,093.35
Less credits	(\$353.95)
Less retainage not earned	(\$19,691.57)
Sub-total	\$3,639,047.83
Seats/Service levels projected through 11/30/04	\$12,883,620.84
Total Estimated Delivery Order Value:	\$16,522,668.67

4. Part V "Technology Infusion (Infrastructure Upgrades)", Item 2 is modified to include the subject infrastructure upgrades. The signed date and completion date will be completed in a future infrastructure upgrade modification.

Mod. No.	Description of Work	Date Signed	Completion Date	Modification Value
44	EAEB 2NET 00 Cable Plant Expansion in B1210 for NASA/CRSP			\$10,782.65

5. Payment Schedule: Invoicing and Payment for this modification will be made in accordance with Master Contract NAS5-98144, FAR 52.212-4: Commercial Items (May 1997) (Modified).

6. Reporting requirements: The contractor shall provide monthly status reports to the SSC Alternate DOCOTR, with a copy to the DOCO. These reports shall include, as a minimum, installation progress, and potential problem areas.

7. In consideration of the modification agreed to herein as complete equitable adjustment for the changes set forth, the Contractor hereby releases the Government from any and all liability under this delivery order for further equitable adjustments attributable to such facts or circumstances giving rise to these changes.
8. All other terms and conditions of this Delivery Order remain unchanged and in full force and effect.