

2. AMENDMENT/MODIFICATION NO. 107	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE John F. Kennedy Space Center, NASA Procurement Office – ODIN –OP-OS-ODIN Kennedy Space Center, FL 32899		7. ADMINISTERED BY (If other than Item 6) CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) OAO Corporation 7375 Executive Place Seabrook, MD 20706-2278	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. NAS5-98144/CC90300B
		10B. DATED (SEE ITEM 13) December 1, 2001
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
XX	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR CLAUSE 52.212-4 CONTRACT TERMS AND CONDITIONS-COMMERCIAL ITEMS, (c) CHANGES
	D. OTHER (Specify type of modification and authority)

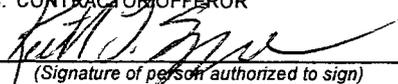
E. IMPORTANT: Contractor is not, is required to sign this document and return **1** copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

KENNEDY SPACE CENTER --- ODIN SERVICES
Technology Infrastructure Upgrade: Firing Room Voice Communication System Upgrade

Change in Delivery Order Price: \$596,551.41 (INCREASE)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Keith L. Spencer Sr. Contracts Manger	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Marjorie Ann Nelson Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 14 Apr 2004
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 4/14/04

1. The purpose of this modification is to incorporate the infrastructure upgrade for the acquisition of the Firing Room (FR) Voice Communication System at an increased price of \$596,551.41 in the firm fixed price of the Delivery Order. The upgrade shall replace aging and discontinued equipment and relocate the telephone termination from the Test Conductor area of the Firing Room to 3R15 and 3P15 areas.
2. Description of Services: The ODIN Contractor shall provide the Siemens HiPath 4000 system including the hardware, software, assembly, installation, and activation of the telephone system to include, but not limited to, the following requirements:
 - a. Cable Plant requirements
 - i. Telephone wire replacement to be category 5 cable
 - ii. Abandon old cables in place; new cables to be installed over existing cables
 - iii. New cables will not cross other Firing Rooms
 - b. Termination Area
 - i. Terminate FR-1 and FR-2 phones in 3P15
 - ii. Terminate FR-3 and FR-4 phones in 3R15
 - c. Power
 - i. End item power provided from the switch in 1P3
 - d. Point to Point System
 - i. Point to Point phones consolidated in new phone system switch
 - ii. Priority over other traffic except 911
 - iii. No longer than 20 ms delay in initiating call on other end of circuit
 - e. Switch Reliability
 - i. Internally redundant
 - ii. Individual Line Downtime: 13 minutes per year
 - iii. System Downtime: 0.6 minutes
 - f. End Item Instrument Size
 - i. Phone must physically fit in the majority of locations where the old phone fit.
 - g. Phone Features
 - i. Hold button
 - ii. Group pickup
 - iii. Conference/Transfer
 - iv. Ringer off button to disable ringer in terminal count
 - v. Provide access to record phones (7-3901/3)
 - vi. End items share lines
 - vii. Most phone numbers remain same
 - h. Service Classes
 - i. Meet or exceed systems that it is replacing
 - ii. Patch phone numbers in OMR/OSR to prime Firing Room
3. Reporting Requirement: The ODIN Contractor shall provide weekly status reports to the DOCOTR with a copy to the DOCO. The report shall include, but not limited to, identification of known or potential problem areas.
4. Upon Government acceptance of the Siemens Hi-Path 4000 system, the system upgrade will become part of the KSC IT infrastructure environment. The ODIN Contractor shall operate and maintain the HiPath system in accordance with the same service conditions and restore to service as any KSC ODIN managed infrastructure.

5. The ODIN Contractor shall be responsible for any necessary modifications to the ODIN security plan to incorporate the HiPath system. This shall be accomplished prior to the scheduled installation and activation date.
6. The ODIN Contractor shall implement this upgrade effort without impacting its other activities or activities of other contractors at the Center.
7. Schedule: Each Firing Room will be upgraded in phases so not to impact an entire Firing Room at one time. The period of performance shall be completed no later than **September 30, 2004**.
8. 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).

Upon Government acceptance of the delivered systems, the ODIN Contractor may invoice in accordance with the following milestone payment schedule:

- | | |
|--|--------------|
| i. Upon delivery and Government acceptance of the system hardware and software | \$277,165.99 |
| ii. Completion of the upgrade effort | \$319,385.42 |

9. Delivery Order Part II, Item 4 is revised to include the increase of \$596,551.41 for this infrastructure upgrade.
10. Delivery Order Part V “Technology Infusion (Infrastructure Upgrades)”, Item 2 is modified to include subject infrastructure upgrade:

Mod. No	Description Of Work	Date Sign	Completion Date	Modification Value
107	Firing Room Voice Communication System Upgrade	(tbd)		\$596,551.41

11. 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 adjustment attributable to such fact or circumstances giving rise to these changes.
12. All other terms and conditions remain unchanged