

AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT

CONTRACT ID CODE PAGE 1 OF 3 PAGES

2. AMENDMENT/MODIFICATION NO: **043**
 3. EFFECTIVE DATE: **See block 15c below.**
 4. REQUISITION/PURCHASE REQ NO: **JRM96194 dtd02/02/00**
 5. PROJECT NO (if applicable):

6. ISSUED BY
 U.S. Nuclear Regulatory Commission
 Division of Contracts & Property Mgmt.
 Contract Management Branch No. 3
 Mail Stop - T-712
 Washington, DC 20555-0001

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

SBA/SYTEL, Inc.
 6430 Rockledge Drive, STE. 400
 Bethesda, MD 20817
 Principal Investigator: James C. Kronz
 Phone No. (301) 770-0386

(X) 9A. AMENDMENT OF SOLICITATION NO

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
Con# NRC-33-96-194

10B. DATED (SEE ITEM 13)

CODE **TIN:52-1542248**

FACILITY CODE

X **04-08-1996**

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 of 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 ACKNOWLEDGMENT 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)
 B&R:010-15-522-120, JOB CODE: J1004, BOC: 252A
 APPN NO: 31X0200.010 OBLIGATE: \$150,000

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

(X) 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)

C THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF

X D OTHER (Specify type of modification and authority) **Bilateral. CHANGES-COST-REIMBURSEMENT (8/87) and mutual agreement of the parties.**

E. IMPORTANT: Contractor is not, is required to sign this document and return 3 copies to the issuing office.

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

See the attached continuation pages.

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 CONTRACTING OFFICER (Type or print)
Judy L. Schaefer
Director of Contracts

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
 Donald A. King
 Contracting Officer

15B. CONTRACTOR/OFFEROR
Judy L. Schaefer
 (Signature of person authorized to sign)

15C. DATE SIGNED
 4/6/00

16B. UNITED STATES OF AMERICA
 BY *Donald A. King*
 (Signature of Contracting Officer)

16C. DATE SIGNED
 04-03-2000

B/7

NRC-33-96-194
SBA #0353-96-0-06041
Modification No. 40
Page 3 of 3

- (3) Appendix A of the contract, Attachment 4, is revised by adding subsection I which allows for additional work required by the government to support the NRC's Continuity of Operations Planning and Implementation. The work shall be completed within the ceiling increase associated with the additional work (Task 5) of this modification and Sytel's proposal, dated 03/20/00.

A summary of obligations under this contract, from date of the award through this modification, is given below:

Total FY 96 obligations	\$ 7,185,877.40
Total FY 97 obligations	\$ 6,816,453.00
Total FY 98 obligations	\$ 5,964,494.00
Total FY 99 obligations	\$ 7,807,720.15
Total FY 00 obligations	\$ 6,030,000.00
 Cumulative Total of NRC Obligations	 \$33,804,544.55

This modification obligates FY00 funds in the amount of \$150,000.

All other terms and conditions of the contract remain the same.

STATEMENT OF WORK FOR Task 5 FOR CONTRACT NRC-33-96-194

Enclosure 1

**U.S. NUCLEAR REGULATORY COMMISSION
OCIO, ITID**

Task 5

Statement of Work

**Task 5 under Contract NRC-33-96-194 to provide technical
support for USNRC Continuity of Operations Planning**

1 BACKGROUND

Presidential Decision Directive (PDD) 67, "Enduring Constitutional Government and Continuity of Government Operations," directed all Executive Branch departments and agencies, including the Nuclear Regulatory Commission (NRC), to develop Continuity of Operations (COOP) plans. Incident Response Operations (IRO) developed COOP plan for the NRC and submitted it, via SECY-99-243, to the Commission for approval. The staff further noted that, if needed, the plan could be implemented immediately with available resources "but with a limited initial capability."

In order to provide information technology (IT) resources during an emergency, the Continuity of Operations Plan assumes that the NRC White Flint North complex, as well as the nearby National Institutes of Health (NIH) Computer Center, may become unavailable for an extended period of time. The NIH Computer Center, operated by the Department of Health and Human Services, has its own contingency plans, which involve relocation to an alternative site. Within this worst-case scenario, NRC's IT resources would be limited to those located at its four regional sites and those used by resident inspectors.

NRC's existing IT infrastructure is critically dependent on hardware, software, and personnel primarily located at Headquarters and the surrounding area. Loss of the entire White Flint North complex would have a profound impact on the agency's computer and wide area network. The current infrastructure design employs widespread redundancy internally, but this redundancy would be destroyed in the loss of the entire White Flint North complex.

Under the loss of White Flint North scenario, the following would occur:

- a. Region-to-Region data links, which are routed through Headquarters, would be lost. This includes the ability to exchange files and electronic mail between regions.
- b. All Internet access would be lost. Internet access is currently provided by Headquarters through a link at NIH. NRC would no longer have the ability to send or receive electronic mail over the Internet. Web browser and server access would also be lost.
- c. Essentially all agency applications (e.g., ADAMS) would be lost. Redundant, off-site systems do not yet exist for major agency-developed applications.

By permanently placing redundant hardware and software at a regional office, region-to-region data links and Internet connectivity could be maintained under the loss of White Flint North scenario. Furthermore, an improved network infrastructure would provide connectivity for backup agency systems, should they be available. The switchover to region-based wide area network should be accomplished within a few hours following notification of a COOP event.

NRC organizations involved in this effort are the Office of the Chief Information Officer (OCIO), Incident Response Operations (IRO), and Region IV.

2. OBJECTIVE

The objective of this task is to provide design, planning, testing, implementation, integration, and operation of the IT infrastructure component of the Agency's Continuity of Operations (COOP) plan.

3. GENERAL REQUIREMENTS

3.1 Wide Area Network (WAN)

The current Wide Area Network will not support connectivity between the Regions if a disaster incapacitates the NRC Headquarters complex. To ensure the continuation of communications, alternate connectivity is required. This connectivity may be met by provisioning switched virtual circuits between each of the Regional Offices and Region IV. A benefit of using this approach is that the circuits do not incur a monthly charge (or minimal monthly rate). Therefore, the NRC would only pay for these circuits during testing or in the event of an actual emergency.

3.2 E-Mail

If a disaster incapacitates the NRC Headquarters complex, the current E-Mail system would continue to support the exchange of E-Mail within a Region, but not between Regions. To preserve the ability to send and receive inter-region E-Mail, virtual circuits (SEE WAN above) may be required and, to permit Internet E-Mail, a second Internet gateway may be required in Region IV.

Additionally, the functionality of the Novell Directory Structure (NDS) must be preserved. Without NRC Headquarters, replicas of the root partition would be invalid and disable the functionality of the E-Mail system. To keep inter-region network functionality, NDS must be duplicated in one or more regions.

3.3 Internet

The current Internet/firewall system will not provide the Internet connectivity or the security for the Regions if a disaster incapacitates the NRC Headquarters complex. To ensure that this capability exists, the NRC will require an additional Internet gateway at Region IV. The following capabilities should be considered:

- (a) Internet access circuit (from Region IV),
- (b) Firewall router,
- (c) Intrusion Detection System (IDS),
- (d) Countermeasures/sniffer system,
- (e) SMTP mail gateway,
- (f) Proxy server, and
- (g) DNS/DHCP server.

4. SCOPE OF WORK

4.1 Phase I. Planning and Design

- 4.1.1 Baseline Capability: The contractor shall assess the existing network and determine its residual capability under the loss of White Flint North scenario. Assumptions: Case 1: prolonged loss of personnel, Case 2: prolonged loss of local power or telecommunications infrastructure, Case 3: physical loss of NRC Headquarters

equipment and facilities. The Contractor shall provide a Baseline Capabilities Report which addresses residual capability in each case.

4.1.2 Configuration Change Recommendations: The contractor shall assess the residual network (Baseline Capabilities) and determine configuration changes (if any) which can be made to the current or residual network to establish Regional intercommunications under COOP conditions. The contractor shall provide a Configuration Change Recommendation Report.

4.1.3 COOP Network Design : The contractor shall design a COOP Network which provides E-mail, NDS and Internet capabilities at Region IV and a WAN that supports regional intercommunications. The contractor shall provide a COOP Network Design Report which includes hardware and software components and costs.

4.1.4 Application Developer Guidelines: The contractor shall develop guidelines for use by NRC application developers which explain the impact of the reconfigured NRC WAN under COOP conditions. The contractor shall provide an Application Developer Guidelines Report.

4.2 Phase II. Implementation

4.2.1 Implementation Plan. Upon design (see 4.1.3 COOP Network Design) approval by the Project Officer, the contractor shall provide an Implementation Plan describing the steps required to acquire, test, deploy, install, integrate and place the design components in operational status. The contractor shall include information on warranty periods for procured equipment and information on third party maintenance agreements that should be established when warranties expire. The Implementation Plan shall include a deployment schedule.

4.2.2 Upon Implementation Plan approval, the contractor shall procure necessary hardware, software and telecommunications services and implement the project at Region IV and other regions as necessary.

4.2.3 Operating Procedures: The contractor shall provide an Operating Procedures Report which describes how network functions are transferred to or assumed by Region IV and what actions are required by the other regions when functions are transferred. Additionally, the Report shall contain procedures for periodic testing of the COOP capability and a means for determining operational status.

4.2.4 Recurring Costs The contractor shall provide a Recurring Costs Report itemizing the annual recurring costs of operation (i.e., hardware and software maintenance, support).

4.3 Phase III. Operational Support and Maintenance

The contractor shall operate and maintain the COOP at Region IV until the contract expiration date, April 7, 2001. The contractor shall provide transition training to the follow-on contractor.

5. SCHEDULE

The delivery dates for reports and the deployment schedule referred to in this task will be as mutually agreed to by the NRC Project Officer and contractor Program Manager. The will be accomplished no later than seven (7) days after the issuance of the contract modification. The existing Primavera management system shall be used by the contractor to schedule milestones for this task. Work on this Task shall be completed prior to 7 April 2001.

6 DELIVERABLES

DUE DATE

1. Baseline Capabilities Report	5/31/2000
2. Configuration Change Recommendation Report	6/30/2000
3. COOP Network Design Report	8/31/2000
4. Application Developer Guidelines Report	9/29/2000
5. Implementation Plan	11/30/2000(Est.)
6. Operating Procedures Report	See attachment A to Sytel proposal.
7. Recurring Costs Report	See attachment A to Sytel proposal.

7 TECHNICAL SKILLS REQUIRED

To be determined by the contractor (See the basic contract).

8 MEETINGS

The contractor shall meet with the Project Officer as noted in the basic contract to discuss project progress.

9 TRAVEL

Travel to Region IV will be required to implement this task (estimated four (4) trips with three (3) persons each) and may be required to the other three regions to install, test and configure infrastructure equipment/software (estimated one (1) trip with one (1) person).

10 INSPECTION AND ACCEPTANCE

See the Basic Contract.

11. PERSONNEL SECURITY REQUIREMENTS

See the Basic Contract.