

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

BPA NO.

1. CONTRACT ID CODE

PAGE 1

OF 10

2. AMENDMENT/MODIFICATION NO. M014

3. EFFECTIVE DATE  
See block 16c.

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY CODE 3100

U.S. Nuclear Regulatory Commission  
Div. of Contracts, CMB3  
Attn: Adelis M Rodriguez, 301-492-3623  
Mail Stop TWB-01-B10M  
Washington, DC 20555

7. ADMINISTERED BY (If other than Item 6) CODE 3100

U.S. Nuclear Regulatory Commission  
Div. of Contracts  
Mail Stop TWB-01-B10M  
Washington, DC 20555

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

OAO CORPORATION  
Attn: Patricia Gagliemo-Prior  
5290 Shawnee Road  
Alexandria VA 22312

(X) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.  
GS35F4524G NRC-DR3307358T012

10B. DATED (SEE ITEM 13)

X 09-26-2007

CODE 074830209

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 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) Obligate: \$664,895.67 - see block 14 below for accounting information

**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 data, 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:

D. OTHER (Specify type of modification and authority) Mutual agreement of the parties

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return <sup>1</sup> \_\_\_\_\_ copies to the issuing office.

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

Reference Task Order 12, FSME and NMSS Systems, under Delivery Order DR-33-07-358.

The purpose of this modification is to update the statement of work, adding additional work related to LTS 2.0 thereby increasing the order ceiling and obligated amount. See page 2 for details.

Obligate: \$99,999.67 B&R:055-15-344-133 Job:F1124 BOC: 2574 Approp.: 31X0200.755 FFS: AA8550067 DUNS: 074830209

Obligate: \$564,896 B&R:055-15-344-133 Job:F1124 BOC: 2574 Approp.: 31X0200.755 FFS: AA8550068 DUNS: 074830209

All other terms and conditions remain the same.

Period of Performance: 9/26/2007-9/25/2010. (unchanged)

Obligated Amount: \$2,820,734.00 (changed)

Total order ceiling: \$2,820,734.01 (changed)

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) <b>PATRICIA GAGLIEMO-PRIOR</b> <b>SENIOR CONTRACTS NEGOTIATOR</b>	15B. CONTRACTOR/OFFEROR <i>Patricia Gagliemo Prior</i> (Signature of person authorized to sign)	15C. DATE SIGNED <b>5/18/10</b>	18A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Stephen Pool</b> <b>Contracting Officer</b>	18B. UNITED STATES OF AMERICA BY <i>Stephen Pool</i> (Signature of Contracting Officer)	16C. DATE SIGNED <b>5/14/10</b>
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NSN 7540-01-152-8070  
PREVIOUS EDITION NOT USABLE

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA - FAR (48 CFR) 53.243

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

JUN 03 2010

ADM002

**NRC-DR-33-07-358**  
**Task Order No. 012**  
**Modification No. 014**

The purpose of this modification is to update the statement of work (attached), adding additional work related to LTS 2.0 thereby increasing the order ceiling by \$664,895.68 from \$2,155,838.33 to \$2,820,734.01. See attached revised price schedule. This modification also increases the obligated amount by \$664,895.67 from \$2,155,838.33 to \$2,820,734.00.

The following is a summary of obligations from the date of award through the date of this action:

Award FY07 Obligation	\$110,000.00
Mod 1 FY08 Obligation	\$122,000.00
Mod 2 FY08 Obligation	\$122,377.00
Mod 3 FY08 Obligation	\$120,000.00
Mod 4 FY09 Obligation	\$94,000.00
Mod 5 FY09 Obligation	\$94,000.00
Mod 6 FY09 Obligation	\$70,000.00
Mod 7 FY09 Obligation	\$280,000.00
Mod 8 FY09 Obligation	\$200,476.61
Mod 9 FY09 Obligation	\$281,900.39
Mod 10 FY10 Obligation	\$130,000.00
Mod 11 FY10 Obligation	\$150,000.00
Mod 12 FY10 Obligation	\$220,000.00
Mod 13 FY10 Obligation	\$161,084.33
Mod 14 FY10 Obligation	\$664,895.67
<u>Total NRC Obligations</u>	<u>\$2,820,734.00</u>

Summary – Total Obligations by Job Code Number:	
F1044	\$474,377.00
F1124	\$2,346,357.00
<u>Total NRC Obligations</u>	<u>\$2,820,734.00</u>

All other terms and conditions remain the same.

**Task Order 12     Office of Federal and State Materials and Environmental Management Programs and The  
Office of Nuclear Material Safety and Safeguards Systems**

**A. Background**

This SOW provides for the general maintenance support necessary for the continued operation of systems supporting The Office of Federal and State Materials and Environmental Management Programs (FSME) and The Office of Nuclear Material Safety and Safeguards (NMSS).

FSME develops, implements and oversees the regulatory framework for industrial, commercial, and medical uses of radioactive materials, uranium recovery activities and the decommissioning of previously operating nuclear facilities and power plants. In addition, FSME conducts extensive environmental assessments in support of these regulatory functions. FSME's regulatory work protects public health and safety, provides for the common defense and security, and protects the environment. FSME implements these regulatory programs consistent with NRC's organizational values and in coordination with partners at other Federal agencies, the States, the NRC Regions and Tribal governments.

NMSS is responsible for regulating activities which provide for the safe and secure production of nuclear fuel used in commercial nuclear reactors; the safe storage, transportation and disposal of high-level radioactive waste and spent nuclear fuel; and the transportation of radioactive materials regulated under the Atomic Energy Act. NMSS ensures safety and security by implementing a regulatory program involving activities including licensing, inspection, assessment of licensee performance, events analysis, enforcement, and identification and resolution of generic issues.

Most of the systems covered under this SOW support the mission of FSME's Materials Safety and State Agreements (MSSA) division. MSSA is responsible for the oversight and programmatic direction of materials uses associated with medical, academic, and industrial uses of byproduct materials, including direction to the NRC Regions regarding these activities. MSSA responsibilities include, but are not limited to, the following:

- (1) Provide regional coordination, allegation coordination, enforcement coordination, and event review and follow-up for the office
- (2) Identify and resolve generic problems and policy issues
- (3) Develop policy and procedures for assessing regional performance of materials licensing and inspection activities and coordinate office participation in the Integrated Materials Performance Evaluation Program
- (4) Provide technical support for training of regional and Agreement State materials licensing and inspection staffs
- (5) Review programmatic activities and participate in the development of technical and policy operations for regulations, regulatory guides, and policy statements
- (6) Develop and implement technical and policy guidance related to sealed sources and devices for Headquarters, Regions, and Agreement States
- (7) Conduct safety evaluation of sealed sources and devices
- (8) Conduct the exempt distribution licensing and the generally licensed device registration programs

**NRC-DR-33-07-358**  
**Task Order No. 012**  
**Modification No. 014**

As such, MSSA maintains all licensing database management systems associated with the above activities, including the Sealed Source and Device Registry, the General License Tracking System, the Reciprocity Tracking System, and the Licensing Tracking System.

In addition to the above mentioned systems, both FSME and NMSS have the responsibility of tracking of resources and contract financial data, including the Regulatory Information Tracking System (RITS) and Technical Assistance Program Support System (TAPNM).

This SOW also covers the system that supports NMSS's Division of Spent Fuel Storage and Transportation (SFST). SFST develops and implements the agency's regulatory, licensing, and inspection program for the storage of nuclear reactor spent fuel and the domestic and international transportation of radioactive materials, serving as the agency lead in spent fuel storage and transportation activities.

Transportation Approval Package Information System's (TAPIS) main purpose is to support SFST's function by maintaining information about NRC certified packages and quality assurance programs used by companies involved in any facet of the transportation of nuclear material under 10CFR Part 71.

The database management systems mentioned above need periodic maintenance and operational support. In addition, changes to these systems are necessary to reflect minor changes in business requirements, such as additional management reports and updates to code tables. This task order provides the necessary support for the General License Tracking System (GLTS), Licensing Tracking System (LTS/1266), Reciprocity Tracking System (RTS/3615), Regulatory Information Tracking System (RITS), Region I Inspection Planning System (IPS), National Sealed Source and Device Registry System (NSSDRS), Transportation Approval Package Information System (TAPIS), Work Item Tracking System (WITS), and Technical Assistance Program Support System (TAPNM).

The NRC has obtained unlimited rights through a license agreement with the State of Ohio's Department of Health the Radiation Materials (RADMAT) system, a Government-Off-the-Shelf (GOTS) materials licensing solution developed for the Ohio State Department of Health. This product will serve as the base product for Web Based Licensing (WBL) implementation. The contractor will adopt the RADMAT system for internal NRC use by migrating the LTS data to the RADMAT environment and by configuring the system to initially serve as a replacement for LTS. This product will serve as initial replacement of the LTS system. Upon completing the migration, the contractor will create an environment had host the system until the system is moves to a permanent location.

**B. Scope**

The Contractor shall provide required support for the downloading of data for the NRC and its contractors and M&O support for the GLTS, LTS, LTS 2.0 RTS, IPS-RI, RITS, NSSDRS, TAPIS, WITS, and TAPNM to provide the following assurances:

- (1) Operational activities (e.g., year-end carryovers) are timely, properly implemented, and tested.
- (2) Identified program "bugs" are corrected and tested.
- (3) These systems continue to function properly in NRC's operating environment.
- (4) Perfective maintenance (e.g., generation of a new report) identified by users of the systems is properly implemented and tested.

- (5) Necessary documentation is updated and complete.
- (6) Hosting and support of LTS 2.0

The LTS system is scheduled to be replaced with the COTS product in the near future. The Contractor shall provide support in retiring and/or migration of the LTS system.

Examples of requests that might be submitted under this task order are provided in the attachment to this document.

**C. Statement of Work**

1. Maintenance

The Contractor shall be responsible for making necessary changes to ensure that identified problems with an application system are corrected and the system is returned to production in the shortest amount of time possible

a) System to Be Serviced

System Name	System Number	Owner/Users	System Acronym	Software	Platform	Allotted Level of Effort
Licensing Tracking System	1266	FSME	LTS	RAMIS, Assembler, VS-Cobol	Mainframe	1000 h/y
Licensing Tracking System 2.0	1266	FSME	LTS 2.0	ASP.NET	Web Microsoft	4600 h/y
General License Tracking System	B0041	FSME	GLTS	Powerbuilder, Sybase, OCR for Forms (COTS)	Client Server	3000 h/y
Reciprocity Tracking System	3615	FSME	RTS	Clipper, Blinker, dBasell+	PC/LAN	300 h/y
Regulatory Information Tracking System	1290	FSME	RITS	Cobol, DB2, ISPF, PL/1	Mainframe	300 h/y
Region I Inspection Planning System	9817		IPS-R1	Cobol, DB2, ISPF, QMF, Wylbur	Mainframe	125 h/y
National Sealed Source and Device Registry System	3516	FSME	NSSDRS	Powerbuilder, Sybase	Client Server	500 h/y
Transportation Approval Package Information System	1265	NMSS	TAPIS	DB2	Mainframe	300 h/y

Work Item Tracking System	3607	NMSS/FSME	NMSS/WITS	Clipper	PC/LAN	200 h/y
Technical Assistance Program Support System	1233	FSME/NMSS	TAPNM	DB2	Mainframe	00 h/y

The above estimates may change and are provided as guidance for planning and scheduling purposes.

b) Definitions

Maintenance—application systems maintenance shall include, but not be limited to, modification of code, tables, and data; creation of reports and queries; performing analysis and troubleshooting; and establishing and executing backups, restores, archives, and other systems housekeeping duties.

c) Initiation of Work

For system maintenance/retirement, each work request may be submitted by an email or written correspondence from the NRC TOM to the Contractor responsible for the upkeep of the application. The Contractor shall determine the magnitude of the work request and notify the NRC TOM by email or other written correspondence within 1 week of the request. The correspondence required of the Contractor depends on the magnitude of the work request.

d) Independent Action

Corrective maintenance work or data downloads requiring 16 hours or less to complete shall be accomplished by the Contractor without prior NRC TOM approval. For "fix-it-if-it-is-broken" work that is over 16 hours, the Contractor shall provide an email or other written estimate to the NRC TOM within 1 business day of receipt of the request. Upon NRC TOM approval, the Contractor is to immediately commence and complete requested work.

e) Work Actions Requiring Preapproval

For work consisting of modifications to code tables, data validation, troubleshooting (non-operations), backups, restores, archives, query value change, and the like, which require 32 hours or less to complete, the Contractor shall provide an email or other written estimate and scope to the NRC TOM within 1 business day of receipt of the request. Work will begin upon receipt of the emailed authorization from the NRC TOM.

For all other work requiring less than 40 hours to complete, the Contractor shall provide, within 1 week of the request, the estimated number of hours to complete the work and the estimated start and completion date. The work may be performed without further approval from the NRC TOM.

Work which will require over 40 hours to complete (code, document, and test) will require the Contractor to email or provide written correspondence with an assessment of the effort required and the earliest start and completion dates. The estimate is due within 1 week of receipt of the request. The NRC TOM shall review the Contractor's assessment and make a decision as to whether the work should be authorized and email the authorization response to the Contractor within 1 week of receipt.

Authorized actions shall be performed by the Contractor within 5 workdays of authorization, unless a longer time is approved by the NRC TOM.

## 2. Retirement and Migration

The Contractor shall be responsible for performing the activities that are necessary for proper retirement and/or migration of the LTS system. This activity shall include, but is not limited to, the following:

- Developing procedures (archive and restore)
- Testing procedures
- Migration
  - participate in developing and/or executing
    - Migration Plan
  - notify users of migration
  - conduct parallel operations as needed
  - notify all concerned; archive all records
  - provide data extracts as needed
- Software retirement
  - document plans for retirement
  - notify all users of plans and activities
  - conduct parallel operations
  - notify all concerned; archive records
  - keep data from retired product per guidance

The time allotted for the LTS level of effort in the maintenance section includes this activity.

The process for performing retirement/migration activity shall be the same as maintenance work (Section C.1.b-1.e).

## 3. Hosting Support

In February 2009, the NRC conducted alternatives analysis and selected the Radiation Materials (RADMAT) system, an existing GOTS materials licensing solution developed for the Ohio State Department of Health, as the base product for WBL implementation. On December 12, 2008, the NRC established a license agreement with the State of Ohio that granted the NRC full rights to the system at no cost. Under this task order, RADMAT will be adapted for internal NRC use by migrating the LTS data to the RADMAT environment and by configuring the system to initially serve as a replacement for LTS. The adopted version of RADMAT, is called LTS 2.0.

After the completion of data migration, the contractor shall provide temporary hosting, deployment testing, parallel testing, and user support.

### i. Establish Development/Testing Environments

- The contractor shall establish a development/testing environment for LTS 2.0. Note that the prerequisite of the environment purchase and installation is approval by the NRC.
- The contractor shall provide a detailed Integrated Project Schedule.

- ii. Obtain Development/Testing Environment Purchase Approval
  - o The contractor shall prepare and deliver, for NRC approval, procurement packages for all software products, infrastructure products.
- iii. Purchase/Receive Equipment for Development/Testing Environment
  - o The contractor shall purchase the products identified in the contract proposal that are required to establish the development environment.
- iv. Install Development/Testing Environment
  - o Following NRC approval, the contractor shall install and set up the NRC-approved development environment at the contractor's site. As part of the setup activity, the contractor shall perform any NRC-specific software configuration needed, as well as establishing connectivity and preparing the servers (e.g., hardening) to meet the hosting requirements. The contractor may use existing NRC equipment upon approval by NRC.
  - o In addition to hardening the development/testing environment, the contractor shall demonstrate through scan reports and other documentation that they have independently verified hardening prior to requesting NRC verification. The contractor shall repeat this independent verification after performing any corrective actions and prior to deploying any environment changes.
  - o The contractor shall also work with the NRC's Consolidate Test Facility (CTF) to verify the hardening of the servers meets NRC requirements. Issues discovered during this process must be resolved to the satisfaction of the NRC's Computer Security Office (CSO). This will be done by performing independent scans by the CTF which will be reviewed and delivered to the CSO for approval.
- v. Establish Production Environment
  - o The contractor shall establish the initial production operating environment for LTS 2.0. Note that the prerequisite of the environment purchase and installation is approval by the NRC.
  - o The contractor will provide a detailed Integrated Project Schedule.
- vi. Obtain Production Environment Purchase Approval
  - o The contractor shall prepare and deliver, for NRC approval, procurement packages for all software and infrastructure products.
- vii. Purchase/Receive Equipment for Production Environment
  - o The contractor shall purchase/receive the products identified in the contract proposal that are required to establish the production environment.
- viii. Install Production Environment
  - o Following NRC approval the contractor shall install and set up the NRC-approved production environment at the contractor's site. As part of the setup activity, the contractor shall perform any NRC-specific software configuration needed, as well as establishing connectivity and preparing the



servers (e.g., hardening) to meet the hosting requirements. The contractor may use existing NRC equipment upon approval by NRC.

- In addition to hardening the production environment, the contractor shall demonstrate through scan reports and other documentation that they have independently verified hardening prior to requesting NRC verification. The contractor shall repeat this independent verification after performing any corrective actions and prior to deploying any environment changes.
- The contractor shall also work with the NRC's CTF to verify the hardening of the servers meets NRC requirements. Issues discovered during this process must be resolved to the satisfaction of the NRC's CSO office. This will be done by performing independent scans by the CTF which will be reviewed and delivered to the CSO for approval.
- Upon successful completion of the CSO review, the equipment will be installed at the contractor's facility on Gude Drive, and connected to a subnet on the POE which will restrict access to the server components.

ix. Use Support

- Deployment Support
  - Deploy the LTS 20 system to the NRC Headquarters and all Regions
  - Migrate the current LTS database structure to the LTS 2.0 system
  - Deploy a current version of the LTS database to the users
  - Update system with changes approved during the parallel tests
- Parallel Testing Support
  - Support daily status meetings with LTS 2.0 users
  - Respond to user questions or comments on their experiences during the parallel testing.
  - Develop and test scripts to support synchronizing LTS with LTS 2.0
  - Run approved synchronization scripts daily to keep the systems in synch
  - React to user request to update LTS system to correct issues found during the parallel testing
  - Provide estimates for issues found during the parallel testing
  - Deploy fixes approved by the NRC task manager to meet user needs.
- User Support
  - Monitor the LTS 2.0 email box or SharePoint site for issues discovered during parallel testing
  - Research and provide clarification or changes to the LTS 20 system during parallel testing
  - Conduct Webinars as requested to support interactive dialogue with the users
  - Deploy updates to the testing infrastructure as approved by the NRC task manager
  - Capture new user requirements identified during the parallel testing and provide estimates for items to be considered during the parallel tests.

4. Freedom of Information Act (FOIA) Processing

The estimated level of effort for FOIA processing is 50 hours per year.

The Contractor shall provide time estimates within 1 day and extract reports and forward extracted data ("read-me" file, "data," "unzip" file, and "code value" files, if appropriate) to the FOIA Section via email within 2 days of the request.

If the request is for materials information and the LTS database, a copy of the LTS.CODES (standard file created by a contractor and provided once to FOIA Section) shall be copied to the same diskette.

The Contractor shall perform work needed to extract data that satisfies the FOIA requests using the appropriate databases. The Contractor shall perform data extraction from the source database and deliver resultant data in the format requested via email. This may include a special preparation for comma-delimited, database, or spreadsheet format. (NOTE: In the absence of any specific formatting request, the data shall be extracted in fixed-length record format.)

The Contractor shall be required to download the data to its PC, which may require that procedures be developed for running programs against the requested system.

The Contractor shall verify the transferred data against the source data for correctness of content and on the Contractor's PC for physical integrity.

If requested, the Contractor shall reformat the data into alternative output modes. This may require the creation of a comma-delimited format, creating a dBASE file or a similar PC database format, or a format compatible with other desktop software such as Microsoft Word, Excel, WordPerfect or Lotus 1-2-3.

If the data file is too large to fit onto a single 3.5" diskette, the Contractor shall compress the file using the utility PKZIP in a self-extracting format. This is primarily for the convenience of the requestor; however, it is also useful for expedited delivery to the FOIA Section.

The Contractor shall verify the compressed file within the utility by expanding it and validating the content for readability before delivery to the NRC.

The Contractor shall deliver a help file providing information on use of the file(s) being placed on the diskette to the FOIA Section. This, as well, shall include a detailed description of the extracted data field layouts, as well as an explanation of how to expand the compressed data file.

The Contractor shall transport the final data file, help file, and codes file to the FOIA Section via email for inclusion on the requestor's response diskette.

#### 5. Standard Work Approach

The Contractor shall establish a configuration management plan in accordance with Sections A and C of this delivery order.

The Contractor and the NRC TOM shall attend, as required, occasional meetings (average of 2 per month—the number of meetings may be higher than average when work is being performed or is more complex) to discuss the work and schedule.

The application's change log, as necessary, shall reflect the modifications made for each work request. All required documentation outlined in the NRC PMM and CMP shall be updated to reflect the modifications.

When performing work on the GLTS, the NSSDRS, or any other system developed in the PowerBuilder environment, the Contractor shall comply with the attached FSME/NMSS PowerBuilder programming standards, entitled, "Powerbuilder Software Development Standards." In cases of emergency maintenance or when the Contractor believes compliance with these standards would be impractical, the Contractor may request, by email, a task-specific waiver from the NRC TOM.

During the performance period of this contract, the Contractor shall maintain the build log for each system in a public/shared disk location accessible to the NRC TOM. This log shall be stored in a format accessible using products in the NRC standard desktop configuration (e.g., Corel Office or MS Office). The log shall contain the following information:

- system
- build number (nn.nn.nn)
- date build was created
- description of work related to build (e.g., Change Proposal titles and/or brief descriptions from Problem Reports)
- Reason for build (e.g., internal contractor testing, pre-delivery regression testing, independent verification and validation (IV&V) review, CM check-in)

Where possible, this build number shall be included in the system interface (e.g., splash screens and Help->About). The Contractor shall include the build number in all correspondence and forms related to delivery and deployment of each build. The Contractor shall assign a new build number every time the system is delivered to the NRC, including deliveries for pre-acceptance testing, requirements clarification, demonstrations, or IV&V reviews. The Contractor shall also assign a new build number to the version tested while generating the acceptance test log for delivery to the NRC before CM check-in. The Contractor may assign a new build number every time the system is recompiled or a build is generated, even for internal testing. For a given work effort (group of Problem Reports and Change Proposals), the Contractor shall assign build numbers associated with the prior (current production) version until the final build is delivered for CM check-in. For example, if the current production version is build 02.02.14, the Contractor shall use the numbers 02.02.15-02.02.99 before preparing the final build for CM check-in. Using this example, the final build would be 02.03.00 or 03.00.00, if the NRC deemed it a significant upgrade.

Before beginning work on a given build, the Contractor shall review the RequisitePro and/or ClearQuest data and ensure that all Problem Reports and Change Proposals related to the build are in the appropriate Rational data store and that they have been updated to associate them with the target build. The target build shall be the version number agreed to by the NRC TOM and will always have 00 in the third part.

When performing work on any PC or LAN-based system (including client server) covered under this task order, the Contractor shall use the Rational Robot and TestManager tools for functional testing. The Contractor shall follow the "FSME/NMSS Automated Functional Testing Standards," consulting the NRC TOM as needed for guidance on test coverage.

For each maintenance build on systems covered by automated testing, the Contractor shall develop one or more Robot scripts to demonstrate that the issues (Problem Reports and Change Proposals) related to the given build were successfully addressed. Before recording these scripts, the Contractor shall refresh the database using the database image from the January 11, 2006, production database dump, then replaying the prevailing suite of regression test scripts. The Contractor shall not modify any of the NRC regression test scripts or other scripts once delivered to the NRC without explicit NRC direction to do so.

Note: Currently, only the GLTS is covered by automated testing.

**D. Place of Performance**

Performance of this task order shall be accomplished primarily at the Contractor's facilities. Access to the NRC facilities shall be provided as required for the contractor's personnel during normal working hours for the duration of this task order.

**E. Schedule of Deliverables**

a) System Maintenance

<b>Deliverable</b>	<b>Responsibility</b>	<b>Delivery Schedule</b>
Email the NRC TOM with details of work request.	FSME/NMSS staff or authorized alternate	As necessary
Email (or other written correspondence) to the Contractor for an assessment of the work request.	NRC TOM	Within 2 days of receipt of work request, Contractor ticket, or email for the NRC TOM for fix or other work.
Email (or other written correspondence) to the NRC TOM with an assessment of effort required and the earliest start and completion dates.	Contractor	Within 1 week after receipt of work request requiring less than 40 hours, but greater than 16. Not required for work requests less than 16 hours.
Review Contractor assessment and email authorization response to the Contractor.	NRC TOM and FSME/NMSS Lead User or authorized alternate	Within 1 week after receipt of Contractor's assessment of effort
Completion of the authorized work (including prototyping, testing, deployment, installation, and training).	Contractor	Within a period of time specified either by the Contractor in the estimate response or as negotiated with the NRC TOM
Update the Contractor Biweekly Status Report for Requested Perfective Maintenance	Contractor	Biweekly, as required.
Build log, assigning build identification numbers to all FSME/NMSS systems covered by this task order.	Contractor	No later than 14 days after award of this modification
Test log report from Rational TestManager showing successful completion of regression testing on product (e.g., build being delivered). Note: Only applies to systems for which the NRC	Contractor	Before submission for NRC acceptance testing and configuration management check-in

has provided a suite of regression test scripts.		
Draft Rational Robot script(s) demonstrating successful completion of work on all Change Proposals or Problem Reports covered by a given system build	Contractor	At least 10 days before delivery of build for NRC acceptance testing
Comments and/or acceptance notification regarding review of draft Rational Robot script(s) demonstrating successful completion of work on all Change Proposals or Problem Reports covered by a given system build	NRC	No more than 7 days after receipt of the draft scripts
Final Rational Robot script(s) demonstrating successful completion of work on all Change Proposals or Problem Reports covered by a given system build	Contractor	At time of submission of build for NRC acceptance testing and configuration management check-in
Test log report from Rational TestManager showing successful completion of the Robot script(s) demonstrating successful completion of work on all Change Proposals or Problem Reports covered by a given system build	Contractor	Before submission for NRC acceptance testing and configuration management check-in
System build and all related artifacts for IV&V review to ensure compliance with prevailing programming standards and work specifications	Contractor	As requested by the NRC TOM or specified in project schedules

b) FOIA Processing

Once the request is received from FSME, the Contractor shall respond to the FOIA request within 2 business days. If any problem occurs which interferes with this basic requirement, the NRC TOM should be immediately notified.

The FOIA requestor will be notified by the FOIA Section if any FOIA request requires in excess of 1 hour for data extraction. Under this task order, no work will be done if the estimation exceeds 1 hour without prior FOIA Section authorization.

**F. Expertise/Skills**

The Contractor shall provide personnel with the following skills:

- Working experience with and knowledge of the applications listed under this task order
- Experience and knowledge in working with the NIH mainframe, ISPF, TSO, CLIST, IBM9370, XEDIT, CMS, COBOL, CLIPPER 5x (and associated libraries), PowerBuilder, Sybase System, OCR for Forms, and RAMIS II
- Working experience with and knowledge of a client server development tool(s)
- Working experience and knowledge of HTML, Web graphics preparation, and other Web development tools approved for use at the NRC
- Knowledge of the Rational Suite Enterprise package, specifically the Robot and TestManager testing tools, ClearQuest defect/change management tool, and RequisitePro requirements management tool.
  - Robot and TestManager: Staff supporting testing of maintenance work on PC, LAN, of client server systems shall be able to run existing Robot scripts and interpret the test logs. At least one member of the Contractor's staff shall also be capable of recording, debugging, and editing Robot scripts.
  - ClearQuest: Staff supporting maintenance of any FSME/NMSS system covered under this task order shall be capable of using ClearQuest to retrieve information regarding logged defects. Staff supporting logging of defects or changes (as directed by the NRC) shall be capable of entering defect reports into ClearQuest.
  - RequisitePro: Staff supporting maintenance of any FSME/NMSS system covered under this task order shall be capable of using RequisitePro to retrieve information regarding logged requirements.

#### **G. Task Order Manager**

The manager for this task order is Menelik Yimam, (301) 415-0200.

Data Needed for FSME/NMSS-01 for Systems Maintenance

Emergency Help

For example, a request for a new docket did not work. The docket provided had already been used 3 months ago. This had to be investigated immediately to make sure the database was not corrupt.

Ad Hoc Reports

Occasionally new reports are needed because of changes in budget policy, fees requirements, or the like. If these reports require arithmetic calculations, help will be needed from the Contractor.

Modify/Add/Delete Fields

The LTS analyst has the ability to add new reviewer codes. If a number is entered in error, the Contractor must delete.

Modify Lookup Tables

New isotope—Samarium-154  
New program code—future rule changes may require

QA of Existing Fields

*Uploads/Downloads*

When a State becomes an Agreement State, a mass change of status is required. Incorrect data may occur (e.g., GLTS did not consider Massachusetts an Agreement State)

System Repairs

*Add/Modify Standard Reports*

It may be necessary to add or modify standard reports for the following reasons:

- management changes regarding statistical information
- modification for rule changes
- administrative changes (e.g., fees)
- Need for incremental committing of funding

**RTS**

Listed below are two examples of perfective maintenance:

- (1) Add fields for license expiration date, docket number, and inspection report number
- (2) Add ability to search by reference number for multiple locations

Clarifications:

Guidance: The regulations provide for revisions of NRC Form 241 for additional work locations or clients or for changes to the radioactive material or work activities that differ from the information submitted on the initial Form 241. Revisions to Form 241 require a fee payment. However, providing the Regional office information that clarifies or deletes specific locations or work sites, work site contacts, or dates of work are categorized as clarifications and do not require a fee.

Problem: Licensees provide their whole client list with the initial Form 241 submission and then send in clarifications to avoid the revision fees. This has resulted in a significant increase in the number of clarifications processes; however, the RTS does not track clarifications, so only an estimated number exists.

Solution: Revise the RTS to add the ability to count the number of clarifications performed.

Revisions:

Guidance Revisions to Form 241 require a fee payment.

Problem: Licensees send in a revision request with the fee payment. The revision request may require that several items be revised in the RTS. The RTS is designed to count each change as a revision, resulting in the RTS counting several revisions for each fee payment. Therefore, LFARB is unable to reconcile the number of actual revision requests received with fees collected to the number of revisions performed in the RTS.

Solution: Devise a way to allow the RTS to count the revision without counting each change made to the reciprocity information for that revision.