

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1 CONTRACT ID CODE PAGE OF PAGES 1 2

2 AMENDMENT/MODIFICATION NO 011 3 EFFECTIVE DATE 02/15/02 4 REQUISITION/PURCHASE REQ NO CIO01182-16, -18 5 PROJECT NO (If applicable)

6 ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts and Property Mgt. Attn: Mark Flynn, MailStop T-7-I-2 IT Acquisition Management Branch Washington DC 20555 7 ADMINISTERED BY (If other than Item 6) CODE

8 NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) OAO Corporation ATTN: Harvard Hopkins Vice President 7500 Greenway Center Drive Greenbelt MD 20770 9A AMENDMENT OF SOLICITATION NO 9B DATED (SEE ITEM 11) 10A MODIFICATION OF CONTRACT/ORDER NO GS-35F-4524G NRC-33-01-182-001 10B DATED (SEE ITEM 13) X 06-18-2001

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) N/A

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) C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF D. OTHER (Specify type of modification and authority) FAR 212-4 and mutual agreement of the parties X

E. IMPORTANT: Contractor is not, X is required to sign this document and return 2 copies to the issuing office.

14 DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible) See page 2 for description of modification.

15A NAME AND TITLE OF SIGNER (Type or print) 15B CONTRACTOR/OFFEROR 15C DATE SIGNED 3/22/02 16A NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Mark Flynn Contracting Officer 16B UNITED STATES OF AMERICA BY Mark Flynn (Signature of Contracting Officer) 16C DATE SIGNED 2/15/02

BPA No. NRC-33-01-182
Order No. 1
Modification No. 11
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The purpose of this modification is to increase the delivery order ceiling by \$502,260.25 from \$13,117,282.17 to \$13,619,542.42 to add maintenance support to CLIN 15 and 16.

Under CLIN 15, maintenance support in the amount of 3,035 hours of OAO staff effort is added to support the National Sealed Source and Devise Registry System (NSSDRS), hereby added as a system to be supported under the CLIN, and to support maintenance requirements for NMSS internal and external web content in accordance with the attached revised statement of work (SOW) for the CLIN. NSSDRS system maintenance support was not included in the initial delivery order, as the system was in the development and production stage and was not ready for maintenance. The ceiling of the CLIN will be increased by \$216,165.75 to provide the additional support.

Under CLIN 16, database maintenance support in the amount of 2,580 hours of OAO staff effort is added to support the TRIM, RITS, GLTS, and STARFIRE systems hereby added as systems to be supported under the CLIN in accordance with the attached revised SOW for the CLIN. This system support was not included in the initial delivery order as these systems were in the development and production stage and were not ready for database maintenance. The ceiling of the CLIN will be increased by \$286,094.50.

Accordingly, this order is hereby modified as follows:

Under Section F.8, Consideration and Obligation, the first paragraph is deleted and replaced with the following:

"The total estimated amount (ceiling) of this order is \$13,619,542.42."

A revised version of Price Schedule pages 1, 1a, 8, 9 and 24, and SOW pages 114-125 and 242 are contained in Attachment 1 to this modification and hereby replace the corresponding pages in the order.

All other terms and conditions of this order remain unchanged.

This modification does not obligate funds.

Attachment:

1. Replacement pages

Attachment 1
Modification No. 11
NRC-33-01-182, Order No. 1

Replacement Price Schedule pages 1, 1a, 8, 9 and 24, and SOW pages 114-125 and 242 follow. Replace the corresponding pages in the order with the pages attached.

PRICE/COST SCHEDULE: PRICE/COST SCHEDULE SUMMARY (Inclusive of Modification 8)

CLIN No.	Ceiling - Year 1	Ceiling - Year 2	Total Ceiling
001	\$149,047.95	\$0.00	\$149,047.95
002	\$260,235.28	\$270,647.36	\$530,882.64
003	\$111,616.60	\$116,076.40	\$227,693.00
004	\$176,693.55	\$183,799.90	\$360,493.45
005	\$1,222,989.05	\$717,263.74	\$1,940,252.79
006	\$8,014.87	\$8,367.26	\$16,382.13
007	\$409,776.52	\$363,796.70	\$773,573.22
008	\$22,192.20	\$23,123.00	\$45,315.20
009	\$11,267.40	\$11,718.70	\$22,986.10
010	\$40,002.10	\$21,013.00	\$61,015.10
011	\$6,849.12	\$7,122.76	\$13,971.88
012	\$55,252.32	\$57,459.32	\$112,711.64
013	\$66,812.80	\$68,035.70	\$134,848.50
014	\$4,090.20	\$4,254.00	\$8,344.20
015	\$352,975.25	\$142,312.10	\$495,287.35
016	\$230,980.30	\$383,958.00	\$614,938.30
017	\$761,012.75	\$791,484.90	\$1,552,497.65
018	\$33,206.40	\$34,535.46	\$67,741.86
019	\$44,725.00	\$45,424.00	\$90,149.00
020	\$107,354.00	\$111,663.60	\$219,017.60
021	\$42,437.00	\$44,173.50	\$86,610.50
022	\$14,917.43	\$15,543.20	\$30,460.63
023	\$557,933.67	\$580,433.20	\$1,138,366.87
024	\$359,367.00	\$446,797.00	\$806,164.00
025	\$18,371.50	\$19,120.50	\$37,492.00
026	\$8,408.76	\$8,752.80	\$17,161.56
027	\$0.00	\$0.00	\$0.00
028	\$294,636.65	\$313,960.10	\$608,596.75
029	\$44,738.40	\$46,531.20	\$91,269.60
030	\$106,470.82	\$110,749.00	\$217,219.82
031	\$68,270.90	\$3,456.60	\$71,727.50
032	\$13,053.80	\$13,576.80	\$26,630.60
033	\$1,994.04	\$2,073.96	\$4,068.00

CLIN No.	Ceiling - Year 1	Ceiling - Year 2	Total Ceiling
034	\$0 00	\$0 00	\$0.00
035	\$216,532 95	\$0 00	\$216,532.95
036	\$118,960 23	\$0 00	\$118,960 23
037	\$1,059,290 65	\$1,651,841.20	\$2,711,131.85
TOTAL PRICE	\$7,000,477.46	\$6,619,064.96	\$13,619,542.42

CONTRACT LINE ITEM (CLIN) NO: 013 (Mod. 1)	DESCRIPTION:	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
	O&M Support for PC Integrated Events				
013(a)	Program Manager				\$6,009.50
013(b)	Application Systems Analyst Manager (<i>off-site</i>)				44,310.50
013(c)	Programmer 5				16,492.80
TOTAL CLIN 13 CEILING - YEAR 1					\$66,812.80

CONTRACT LINE ITEM (CLIN) NO: 014	DESCRIPTION:	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
	O&M Support for NUDOCS				
014(a)	Application Systems Analyst Manager				4,090.20
TOTAL CLIN 14 CEILING - YEAR 1					\$4,090.20

CONTRACT LINE ITEM (CLIN) NO: 015 (Mod. 11)	DESCRIPTION:	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
	O&M Support for NMSS Systems (includes CLIN 27 & 34)				
015(a)	Program Manager				\$24,038.00
015(b)	Project Manager				37,046.25
015(c)	Application Systems Analyst Manager				68,170.00
015(d)	Application Systems Analyst Programmer				55,390.00
015(e)	Analyst 2				3,836.00
015(f)	Programmer 5				12,885.00
015(g)	Analyst 5				71,920.00
015(h)	Analyst 1				0.00
015(i)	Analyst 3				0.00
015(j)	Document Coord.				0.00

CONTRACT LINE ITEM (CLIN) NO: 015 (Mod. 11)	DESCRIPTION: O&M Support for NMSS Systems (includes CLIN 27 & 34)	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
015(k)	Document Spec.				0.00
015(l)	Network Control Tech.				0.00
015(m)	Support Spec. 3				0.00
015(n)	Support Spec. 5				0.00
015(o)	Support Spec. 6				0.00
015(p)	Sr. Functional Analyst				62,440.00
015(q)	Technical Expert 1				0.00
015(r)	Technical Expert 2				17,250.00
015(s)	Technical Expert 3				0.00
015(t)	Technical Expert 4				0.00
TOTAL CLIN 15 CEILING - YEAR 1					\$352,975.25

CONTRACT LINE ITEM (CLIN) NO: 016 (Mod. 11)	DESCRIPTION: O&M Support for Data Base Administration	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
016(a)	Project Manager				9,879.00
016(b)	Technical Expert 1 (onsite)				152,468.00
016(c)	Technical Expert 2 (onsite)				64,800.00
016(d)	Support Specialist 3 (offsite)				1,833.30
016(e)	Travel				2,000.00
TOTAL CLIN 16 CEILING - YEAR 1					\$230,980.30

CONTRACT LINE ITEM (CLIN) NO: 015 (Mod. 2)	DESCRIPTION: O&M Support for NMSS Systems (Now includes CLIN 27 and CLIN 34)	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
015(c)	Application Systems Analyst Manager				73,381.50
015(d)	Application Systems Analyst Programmer				11,522.00
015(e)	Analyst 2				7,978.00
015(f)	Programmer 5				8,934.00
TOTAL CLIN 15 CEILING - YEAR 2					\$142,312.10

CONTRACT LINE ITEM (CLIN) NO: 016 (Mod. 11)	DESCRIPTION: O&M Support for Data Base Administration	EST. QTY.	UNIT	UNIT PRICE	CEILING AMOUNT
016(a)	Project Manager				10,274.00
016(b)	Technical Expert 1 (onsite)				158,559.20
016(c)	Technical Expert 2 (onsite)				211,218.00
016(d)	Support Specialist (offsite)				1,906.80
016(e)	Travel				2,000.00
TOTAL CLIN 16 CEILING - YEAR 2					\$383,958.00

CLIN 15 O & M Support for NMSS Systems

15.A Background

The Office of Nuclear Materials Safety and Safeguards (NMSS) is responsible for ensuring the public health and safety through licensing, inspection, and environmental reviews for all activities regulated by the Nuclear Regulatory Commission (NRC), except operating power and all non-power reactors, and for the safeguards technical review of all licensing activities, including export/import of special nuclear material, excluding reactors. Develops and implements NRC policy for the regulation of activities involving the use and handling of radioactive materials, such as: uranium recovery activities; fuel fabrication and development; medical, industrial, academic, and commercial uses of radioactive materials; safeguards activities; transportation of nuclear materials, including certification of transport containers, and reactor spent fuel storage; safe management and disposal of low-level and high-level radioactive waste; and management of related decommissioning. Safeguards responsibilities include developing overall agency policy, monitoring and assessing the threat to the environment including liaison with intelligence agencies as appropriate, and those licensing and review activities appropriate to deter and protect against threats of radiological sabotage and threats of theft or diversion of special nuclear material at fuel facilities and during transport. Identifies and takes action to control safety and safeguards issues for activities under its responsibility, including consulting and coordinating with international, Federal, State, and local agencies, as appropriate.

Most NMSS materials arena information systems support the mission of the Division of Industrial and Medical Nuclear Safety (IMNS), Materials Safety and Inspection Branch (MSIB). The MSIB 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 Regions regarding these activities. Their 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.
9. Maintain 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 MSIB systems, further NMSS responsibilities include, but are not limited to the following:

- b. Tracking of resource usage by licensee category
- c. Maintenance of database management systems supporting tracking of resources and contract financial data including the Regulatory Information Tracking System
- d. Maintenance of external worldwide web pages (Internet) for effective and timely communication with the general public and particularly those concerned with the materials strategic arena.
- e. Maintenance of internal web (Intranet) pages and applications for effective operational support and communications within the materials and waste arenas and with all other concerned personnel with access to the Intranet..

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 CLIN provides the necessary support for the General License Tracking System (GLTS), the Licensing Tracking System (LTS/1266), the Reciprocity Tracking System (RTS/3615), the Regulatory Information Tracking System (RITS), the Region I Inspection Planning System (IPS), and the National Sealed Source and Device Registry System (NSSDRS).

In addition to the system support, NMSS requires support in maintaining and adding necessary content to the parts, sponsored by NMSS, of the NRC external worldwide web site. Currently, all external web content is coded in the hypertext markup language (HTML). However, NMSS requires support using further web-based tools as these are approved for use in the NRC environment.

NMSS also requires similar support in maintaining and adding necessary content and functionality to the internal web (Intranet) areas sponsored by the office.

15.B Scope

The contractor shall provide required support for the downloading of data for NRC and NRC contractors, maintenance and operational support for the GLTS, LTS, RTS, IPS-RI, RITS, and NSSDRS. To provide assurance that:

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

The contractor shall provide required support for maintenance of NMSS-sponsored content (pages and interfaces) hosted on both the internal and external NRC webs. This support shall include all necessary preparation and formatting of text, graphics, and image files. The contractor shall ensure that all web maintenance work is performed in compliance with prevailing NRC web templates and standards for formatting and naming of web content.

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

15.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	System Acronym	Software	Platform	Allotted Level of Effort
Licensing Tracking System	1266	LTS	RAMIS, Assembler, VS-Cobol	Mainframe	500 hrs/yr
General License Tracking System	B0041	GLTS	Powerbuilder, Sybase	Client/Server	1,600 hrs/yr
Reciprocity Tracking System	3615	RTS	Clipper, Blinker, dBaseIII+	PC/LAN	300 hrs/yr

Regulatory Information Tracking System	1290	RITS	Cobol, DB2, ISPF, PL/1	Mainframe	300 hrs/yr
Region I Inspection Planning System	9817	IPS-R1	Cobol, DB2, ISPF, QMF, Wylbur	Mainframe	125 hrs/yr
National Sealed Source and Device Registry System		NSSDRS	Powerbuilder, Sybase	Client/Server	1,000 hrs/yr
Maintenance of NMSS internal and external web content	n/a	n/a	Prevailing HTML editors and web development tools approved by the NRC	Web	1,000 hrs/yr

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, troubleshooting and establishing and executing backups, restores, archives and other systems housekeeping duties.

c. Initiation of Work

For system maintenance, each work request may be submitted by an E-mail, or written correspondence from the NRC CLIN Manager to the contractor responsible for the upkeep of the application. The contractor shall determine the magnitude of the work request and notify the NRC CLIN Manager by E-mail or other written correspondence within one week of the request. The correspondence required of the contractor depends on the magnitude of the work request.

For web maintenance work, work requests may be submitted by an E-mail or written correspondence from the NRC CLIN Manager or an NMSS webmaster or web content sponsor who the NRC CLIN Manager has authorized as a requestor. The CLIN manager shall keep the contractor informed of all authorized web support requestors.

d. Independent Action

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

For web maintenance work, the contractor may complete individual tasks requiring 16 hours or less to complete if the request is received from the one of the NMSS webmasters. Requests received from others should be immediately forwarded to the CLIN manager, with a copy to the primary NMSS web master. For web work that is over 16 hours, the contractor shall provide an e-mail or written estimate to the CLIN manager within one business day of receipt of the request. Upon CLIN manager approval, the contractor is to immediately commence and complete the requested work.

e. Work Actions Requiring Pre-approval

For work consisting of modifications to code tables, data validation, troubleshooting (non- operations), backups, restores, archives, query value change, etc., which require 32 hours or less to complete, contractor shall provide an e-mail or other written estimate and scope to the CLIN manager within one business day of receipt of request. Work will begin within upon receipt of the e-mailed authorization from the CLIN manager.

For all other work requiring less than 40 hours to complete, the contractor shall provide, within one 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 CLIN Manager.

Work which will require over 40 hours to complete (code, document, and test), will require the contractor to E-mail or provide written correspondence with an assessment of the effort required and the earliest start and complete dates. The estimate is due within one week of receipt of request. The NRC CLIN Manager shall review the contractor's assessment and make a decision as to whether the work should be authorized, and E-mail the authorization response to the contractor within 1 week of receipt. Authorized actions shall be performed by the Contractor within five (5) workdays of authorization, unless a longer time is approved by NRC's CLIN Manager.

2. 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 e-mail 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 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 against the appropriate databases. The contractor shall perform data extraction from the source data base and deliver resultant data in the format requested via e-mail. 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 their 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 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 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 for 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 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 e-mail for inclusion on the requestor's response diskette.

3. Standard Work Approach

The contractor shall establish a configuration management control to ensure that development work is not compromised by any maintenance action. The contractor shall send an E-mail to the NRC CLIN Manager when maintenance work has been uploaded for user testing and approval (Prototype and Production).

The contractor and the NRC CLIN Manager shall attend, as required, occasional meetings (average of 2 per month - [higher when work is being performed and for more complex work]) to discuss the work and schedule.

The applications's change log, as necessary, shall reflect the modifications made for each work request. All required System Development and Life-Cycle Management (SDLCM) Methodology documentation shall be updated to reflect the modifications.

15.D Place of Performance

Performance of this task shall be accomplished primarily at the contractor facilities. Access to the NRC facilities shall be provided as required, for contractor Task Team personnel during normal working hours for the duration of this CLIN.

15.E Schedule of Deliverables

System Maintenance

Deliverable	Responsibility	Delivery Schedule
E-mail the NRC CLIN Manager with details of work request	Office of Nuclear Material Safety and Safeguards Staff (NMSS) or authorized alternate.	As necessary.
E-mail (or other written correspondence) contractor for an assessment of the work request	NRC CLIN Manager	Within 2 days of receipt of work request, Contractor ticket or e-mail from CLIN manager for fix etc.
E-mail (or other written correspondence) NRC CLIN Manager with an assessment of effort required and the earliest start and complete 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 E-mail authorization response to the Contractor	NRC CLIN Manager and NMSS Lead User or authorized alternate	Within 1 week after receipt of Contractor Assessment of Effort.

Deliverable	Responsibility	Delivery Schedule
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 CLIN Manager.
Update the Contractor Biweekly Status Report for Requested Perfective Maintenance	Contractor	Biweekly, as required.
User guide and other applicable documentation	Contractor	Within 25 days upon completion of the work request.
Review of User Guide and other applicable documentation.	NRC CLIN Manager, and NMSS Lead User or authorized alternate	Within 35 workdays after completion of the work request.
Final Documentation.	Contractor	Within 40 workdays after completion of the work request.
Diskette Containing a Copy of the Final User Guide	Contractor	Within 40 workdays after completion of the work request.

Web Maintenance

Deliverable	Responsibility	Delivery Schedule
Revisions to existing HTML documents (may include graphics and images)	Contractor	Delivery of appropriately named file, ready for posting, within two business days of receipt of all necessary information to complete the task
Authoring of new HTML documents (may include graphics or images)	Contractor	Delivery of appropriately named file, ready for posting, within three business days of receipt of all necessary information to complete the task
Other web maintenance tasks requiring less than 16 hours	Contractor	Completion within four business days of receipt of all necessary information to complete the task
E-mail the NRC CLIN Manager with details of work request	Office of Nuclear Material Safety and Safeguards Staff (NMSS) or authorized alternate.	As necessary.

Deliverable	Responsibility	Delivery Schedule
E-mail (or other written correspondence) contractor for an assessment of the work request	NRC CLIN Manager	Within 2 days of receipt of work request, Contractor ticket or e-mail from CLIN manager for maintenance
E-mail (or other written correspondence) NRC CLIN Manager with an assessment of effort required and the earliest start and complete dates	Contractor	Within 1 week after receipt of work request requiring greater than 16 hours.
Review Contractor Assessment and E-mail authorization response to the Contractor	NRC CLIN Manager and NMSS Lead User or authorized alternate	Within 1 week after receipt of Contractor 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 CLIN Manager.
Update the Contractor Biweekly Status Report for Requested Perfective Maintenance	Contractor	Biweekly, as required.
For web-based functional modules requiring documentation or user's guides, guidance under System Maintenance (above) applies	Contractor	See Above

FOIA Processing

Once the request is received from NMSS, the contractor shall respond to the FOIA request within 2 business days. If any problem occurs which interferes with this basic requirement, the NRC Task Manager 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 the data extraction. Under this CLIN, no work will be done if the estimation exceeds 1 hour without prior FOIA Section authorization.

15.F Expertise/Skills

The contractor shall provide personnel with the following skills:

1. Working experience with and knowledge of the applications listed under this CLIN.
2. Working experience with development in an NT 32 bit operating system.

3. Experience and knowledge in working with the NIH mainframe, ISPF, TSO, CLIST, IBM9370, XEDIT, CMS, COBOL, CLIPPER 5x (and associated libraries), PowerBuilder (v5.05 and 6.5), Sybase System 11.x and RAMIS II.
4. Working experience with and knowledge of a client-server development tool(s).
5. Working experience and knowledge of HTML, web graphics preparation, and other web development tools approved for use at the NRC.

15.G CLIN Manager

The manager for this CLIN is Joel Bristor, 415-8037.

15.H Level of Effort

The Government's estimated level of effort is 4,825 staff hours per year.

Data Needed for CLIN for Systems Maintenance (LTS, GLTS, RTS, & RITS)

Emergency Help

E.G., 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 data base was not corrupt.

Ad Hoc Reports

Occasionally new reports are needed due to changes in budget policy, fees requirements, etc. If these reports require arithmetic calculations, help is needed from the contractor.

Modify/Add/Delete Fields

LMS Analyst has ability to add new reviewer codes. If a number is entered in error, contractor must delete.

Modify Look-Up Tables

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

QA of Existing Fields

Uploads/Down loads

When a state becomes an Agreement State, a mass change of status is required
Incorrect data, i.e. GLTS did not consider MA as an Agreement State

System Repairs

Add/Modify Standard Reports

Reasons for Above:
Management Changes re Statistical Information
Modification for Rule Changes
Administrative Changes – e.g. Fees

Want Incremental Committing of Funding

RTS

Example 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 different 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 in order 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 we only have an estimated number.

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.

CLIN 16 O & M Support for Database Administration

16.A Background

The Nuclear Regulatory Commission (NRC) has taken the direction of re-engineering mainframe computer based systems using client-server technology. To date, the following systems are in production: RPS, PCRITS, PAYPERS C/S, CTACS, AMS, HFIS, OIMIS, EATS, PASS/PAM, OLTS, TRIM, RITS, GLTS, STARFIRE and NRCCC. These systems are being developed/maintained by the contractors under separate Task or SOW orders (one for each application). This statement of work identifies requirements for the Database Administration Support of the Sybase Adaptive Server Enterprise (ASE) and the databases installed at the NRC headquarters and regional sites.

16.B Scope

This SOW will define a baseline level of effort for Database Administration and Management activities associated with supporting Sybase RDBMS. The contractor shall provide the necessary on-site resources to provide comprehensive database administration services to OCIO/ADD to perform routine and specific services upon request to the production, test & acceptance, and the development database environments. The scope of this task is to utilize the COTS software in conjunction with AIX, SUN Solaris, NT and Sybase software to design, develop, implement, maintain, and support the NRC distributed database environment using SYBASE ASE and SYBASE Replication Server.

Typical routine activities will be done during normal work hours, i.e. 7 AM to 7 PM. Maintenance and enhancement activities will be done outside of prime use hours, i.e. before 7 AM or after 7 PM.

16.C Statement of Work

1. The contractor shall perform distributed database administration activities to ensure optimum database performance by monitoring and fine-tuning of the Sybase environment.
2. The contractor shall perform routine maintenance of the client-server database environment to ensure the system is up and running, accessible to users on a 12 hours/day basis. If the system fails, downtime is to be kept at a minimum.
3. The contractor shall perform database consistency check and database backup, review the execution log to determine the backup database is good to ensure a proper database recovery.

4. The contractor shall perform database administration activities to create databases, tables, indexes, stored procedures. Also to add SQL Server log in ids, database groups, database users and grant group and users permissions.
5. The contractor shall apply EBF and/or updated software release (SWR) to the Sybase environment.
6. The contractor shall install and/or upgrade Sybase ASE releases to the Sybase environment.
7. The contractor shall install and/or upgrade Sybase Replication Server to the Sybase Replication Server environment.
8. The contractor shall integrate Docs Open databases and/or software into the Sybase ASE environment with instructions from the application development contractor.
9. The contractor shall work with the application development staff to perform database and software migration from the development to the test & acceptance and to the production environment for enhancements to existing applications and for deployment of new applications.
10. The contractor shall support databases in the production environment.
11. The contractor shall support databases in the development, and in the test & acceptance environment, including databases which are developed in-house or computer-off-the-shelf purchased databases.
12. The contractor shall test and verify the connectivity between the new releases of Sybase Open Client, and ODBC with the Sybase ASE from the client workstation applications to determine the software upgrade validity.
13. The contractor shall perform emergency problem source identification and resolution.
14. The contractor shall perform hardware capacity planning and upgrade based on additional system requirements.
15. The contractor shall perform specific services upon request which to be determined at times of impact.
16. The contractor shall maintain and keep the information up-to-date for all server binders which contain information related to each RS/6000 computer, SUN computer, Sybase ASE, and databases resided in the Sybase ASE.

17. The contractor shall review current database support documentation and shall document the database administration functions which are not yet documented in the format that other database administrator will be able to follow and perform the task.
18. The contractor shall work with OCIO/ITID staff and its contractor to ensure the RS/6000 AIX Operating System, the SUN OS standards set by OCIO/ITID are followed, the interrelationship between AIX, and SUN OS support and Sybase database administration support is coherent, and the standards set by the OCIO Client-Server Committee will be adhered.
19. The contractor shall complete emergency work within 2 hours of notification, unless a longer time is approved by the NRC CLIN Manager. Non-emergency work shall be completed within 3 days of notification, unless a longer time is approved by the NRC CLIN Manager.
20. The contractor shall participate in the task of upgrading the workstation Open/Client software from version 11.1.1 to version 12.
21. The contractor shall perform SQL queries performance tuning for users and application developers with the approval from the CLIN Manager.
22. The contractor shall upgrade the Sybase ASE from release 11.9.2 to release 12, and the Sybase Replication server from release 11.5.1 to release 12 by March 31, 2002. The contractor shall develop an Upgrade Action Plan and modify server document binders to reflect the server new configuration.
23. The contractor shall document and support the STARFIRE/RPS/RITS interface 3 program.
24. The contractor shall develop a template to be used for the database administration support document.

16.D Client-Server Hardware/Software Platform

1. Hardware: IBM RS/6000 model H70, H80, P660, 595, 591, 590, 580, 570, 390, 370, and 360. Servers with single CPU are running AIX 4.2.1. Newer servers with multiple CPUs are running AIX 4.3.3. All servers will be upgraded to AIX 4.3.3 in the fiscal year 2002.
2. Hardware: Sun model 5500, 3500, and 450. The Sun OS is Solaris 2.6.
3. Software: Sybase ASE release 11.9.2, 12.0.0.3.

4. Software: Sybase Replication Server release 11.5.1 and 12.x.
5. Software: SQR Enterprise for IBM AIX.
6. Software: Peoplesoft bundle software for Sun OS.
7. Development software: PowerBuilder, Visual Basic, Delphi, Docs Open, MS Access, SQR Enterprise.
8. CASE software: ERwin.
9. Client workstation: 486/33 MHZ or better workstation with a minimum of 128 MB of RAM and 1 GB hard disk.
10. Client O/S software: Windows NT.
11. Client application software: PowerBuilder, Visual Basic, Delphi, Docs Open, MS Access, Peoplesoft.
12. LAN: Novell Netware 4.11 supporting multiple concurrent protocols: tcp/ip (OnNet) and IPX/SPX.

16.E Training

The contractor shall provide NRC Database Administrator training during implementation of revisions and follow-on Database Administrator training as necessary (in conjunction with system software upgrades, hardware changes, etc.) to ensure the ability of NRC Database Administrators to administer the revised systems.

16.F Expertise/Skills

The contractor shall provide two people on-site to support the NRC's Database Administration functions. The normal working hours for this delivery order will be from 6:30 AM to 6:30 PM. When required and needed, database administration functions will be performed outside the normal 7 AM to 7 PM work days and/or on the weekends. Staff should have knowledge and experience as follows:

1. Demonstrated ability to perform problem source identification and resolution.
2. Excellent communications and interpersonal skills.
3. Demonstrated ability to write and edit user documentation.

4. Demonstrated ability to revise/enhance client-server solutions including hardware, software, and communications.
5. Demonstrated ability to maintain an enterprise client-server database environment.
6. Knowledge of Unix, RS/6000 AIX, Sun Solaris, Windows NT, TCP/IP, IPX, LU6.2.
7. Knowledge of CASE technology (ERwin).
8. Knowledge of Structured Query Language (SQL) DML/DDDL, & Transact-SQL.
9. Knowledge of C, Unix scripts, SQR Enterprise, PowerBuilder, Visual Basic, Delphi, MS Access, Open Client, ODBC software.
10. Knowledge of Sybase ASE, Sybase Replication Server. Sybase Certified Professional on ASE 12 is required.
11. Knowledge of client-server connectivity through LAN, TCP/IP, Open Client, & ODBC.

16.G Travel

Database administration functions and training activities may require contractor travel to each of the NRC regional offices in King of Prussia, PA, Atlanta, GA, Glen Ellyn, IL, and Arlington, TX. Travel for one person to each site one time for a three day visit during the period of performance may be required.

16.H Reporting Requirements

It is anticipated that the NRC will conduct one meeting every two weeks with the contractor personnel. The meetings will be conducted at the NRC's Rockville, Maryland offices. No other unique reporting is required that exceeds that which would be presented in the Bi-weekly Status Report.

16.I Place of Performance

The contractor shall perform work onsite at NRC Headquarters.

16.K CLIN Manager

The manager for this CLIN is Tu T. Tran, 415-7119.

16.L Level of Effort

The Government's estimated level of effort is 3,760 staff hours per year.

The total estimated amount (ceiling) of this order is \$13,619,542.42.

The amount presently obligated with respect to this order is \$6,017,327.38. The Contracting Officer may increase this amount from time to time by unilateral modification to the order. The obligated amount shall, at no time, exceed the order ceiling. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated. Any work undertaken by the Contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk.

It is estimated that the amount currently allotted will cover performance of the effort through June 17, 2002.

9. FAR 52.232-7, "Payments under Time-and-Material and Labor-Hour Contracts"

FAR 52.232-7 is applicable and hereby incorporated into this order. The notification requirements of FAR 52.232-7 apply on a CLIN basis for this order.