

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

BPA NO.

1. CONTRACT ID CODE

PAGE 1

OF PAGE 1

2. AMENDMENT/MODIFICATION NO.  
M007

3. EFFECTIVE DATE  
See Block 16C.

4. REQUISITION/PURCHASE REQ. NO.  
FFS: N/A

5. PROJECT NO. (If applicable)

6. ISSUED BY  
CODE 3100  
U.S. Nuclear Regulatory Commission  
Div of Contracts  
Mail Stop TWB-01-B10M  
Contract Management Branch No. 3  
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  
Contract Management Branch No. 3  
Washington, DC 20555

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

SOUTHWEST RESEARCH INSTITUTE  
  
6220 CULEBRA ROAD  
  
SAN ANTONIO, TX 78238-5166

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.  
NRC-02-06-021

10B. DATED (SEE ITEM 13)  
09-29-2006

CODE

FACILITY CODE

X

**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) N/A

**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.

X 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)

**E. IMPORTANT:** Contractor  is not,  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.)

To delete Attachment J-1 Statement of Work and replace it with the revised Attachment J-1 Statement of Work (attached

DUNS#: 007936842

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)

R. B. Kalmbach  
Executive Director, Contracts

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Valerje M. Whipple

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

15C. DATE SIGNED

02/09/2009

16B. UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

16C. DATE SIGNED

1/28/09

STANDARD FORM 30 (REV. 10-83)

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

FEB 18 2009

ADM002

STATEMENT OF WORK

PROJECT TITLE: TECHNICAL ASSISTANCE FOR FUEL CYCLE FACILITY LICENSE APPLICATION REVIEWS AND CONSTRUCTION INSPECTIONS

NRC TECHNICAL  
PROJECT MANAGER: Valerie D. Williams 301 492-3118  
NRC TECHNICAL ASSISTANCE  
PROJECT MANAGER: Brenda J. DuBose 301 492-3247

JOB CODE: J5590

Fee-recoverable Yes

**1.0 Background**

Louisiana Energy Services (LES) and the United States Enrichment Corporation, Inc. (USEC) each have submitted to the U.S. Nuclear Regulatory Commission, a license application for a gas centrifuge uranium enrichment facility. On December 12, 2003, LES submitted a license application and environmental report. USEC submitted a license application to the NRC for the American Centrifuge Plant on August 23, 2004. The NRC staff's review was completed during Summer 2006. General Electric (GE)-Hitachi announced that it would construct a laser-based uranium enrichment facility. It is anticipated that NRC will receive its license application in April 2009. In preparation for receipt of the license application, staff is currently reviewing and assessing the adequacy of the seismic, structural design, and tornado and high wind hazard evaluations performed by GE Hitachi in support of its license application and environmental report. Additionally, a license application for AREVA NC Eagle Rock Uranium Enrichment Facility arrived on December 30, 2008. This licensee will initially require an acceptance review and, later, further licensing review, development of a Safety Evaluation Report with construction on the facility planned to begin in 2011. NRC staff was informed in June 2008 of International Isotopes intention to build a United States-based, depleted uranium deconversion facility. The license for this facility is anticipated in calendar year 2009.

The NRC uses the regulations in 10 CFR Parts 20, 30, 40, 51, 70, and 76 to perform a licensing review of these enrichment facilities. Specifically, the regulations require that for uranium enrichment facilities a mandatory formal hearing is conducted under 10 CFR Part 2, Subpart G; and the applicants must receive a license before any construction can begin.

The NRC staff is also responsible for the oversight of the licensed activities performed at uranium enrichment facilities. An important element of the fuel cycle facility oversight program is the inspections conducted by the NRC staff to ensure that licensees are complying with NRC's regulatory requirements. The NRC staff's inspection program for these facilities will be implemented during construction, pre-operation, and commercial operation.

## 2.0 Objective

The NRC requires technical expertise to assist with the licensing and inspection program and activities for the fuel cycle facilities in the areas of seismic, structural design, and tornado and high wind hazards. The objective of this Statement of Work (SOW) will be accomplished through multiple tasks described in detail on individual task orders.

## 3.0 Period of Performance and Level of Effort

The work under this contract is estimated to be issued through approximately one (1) to four (4) task orders. The Period of Performance shall be a Base Period of one year and an Option Period of four years. The average task order is expected to have a period of performance of approximately 48 months and a level of effort of approximately 0.3 FTE per year. The period of performance and level of effort could vary substantially depending on the individual task order scope of work. Several task orders could be assigned simultaneously.

## 4.0 Scope of Work

The NRC oversight process includes, but is not limited to, the following activities: application acceptance review, license application reviews, planning and conducting inspections, evaluation and documentation of inspection results, enforcement activities, and review of the licensee's performance. The NRC requires technical assistance in performing inspection activities of fuel cycle facilities in the areas of seismic, structural design, and tornado and high wind hazards. Specifically, contractor support is required to assist with the LES, USEC, General Electric-Hatohi, AREVA NC Eagle Rock, and International Isotopes facility, as well as any other facilities that may arise.

The contractor will provide the personnel, materials, and facilities necessary to perform the work ordered by the NRC under an individual task order. Detailed work assignments will be described in the individual task order that will specify the objectives, level of effort, period of performance, scope of work, and deliverables. The following are typical types of tasks that may be assigned under the contract:

- Provide technical support in the areas of geotechnical engineering, structural engineering, and seismology;
- Provide technical support for the fuel cycle facilities inspection program in the areas of the contractor expertise.
- Provide technical support with the verification of the final design of the fuel cycle facilities.

## 5.0 Technical Skills and Expertise

The staff is seeking individuals with expertise in the areas of civil engineering, structural mechanics and engineering, seismology, geotechnical engineer, tectonics, and structural geology. The individuals should have knowledge of the NRC applicable regulations and guidance under 10 CFR Parts 20, 30, 40, 51, 70, 76, and the applicable license applications.

## 6.0 Meetings and Travel

Specific requirements for meetings and travel will be specified in each task order issued under the contract. However, for planning purposes, it is expected that meetings will be held at the proposed facility for LES and USEC in Lea County, New Mexico, and Piketon, Ohio. AREVA NC and International Isotopes have proposed facilities in Bonneville County, Idaho; and GE Hitachi's plan includes a facility in New Hanover County, North Carolina; In addition, meetings will also be held at NRC Headquarters in Rockville, Maryland; and NRC Region II Office located in Atlanta, Georgia. The travel costs will be estimated based on the scope of work described in each task order.

Additional meeting(s) between the contractor and the NRC staff, the applicant/licensee, and possibly the licensee's architectural/engineering firm may be required. Intervening teleconference(s) and discussions via e-mail with the NRC staff and the applicant to discuss the technical evaluations may also be required.

## 7.0 Task Order Procedures

When a requirement within the scope of work for this contract is identified, the Contracting Officer will transmit to the contractor a Request for Proposal (RFP) that includes the following task order information, as appropriate:

- (i) Objective
- (ii) Period of Performance and Level of Effort
- (iii) Scope of Work
- (iv) Meetings and Travel
- (v) Deliverables and Schedule
- (vi) Technical Skills and Expertise
- (vii) Reporting Requirements
- (viii) Applicable Special Provisions

The contractor will deliver a written proposal that provides technical and cost information to the Contracting Officer by the specified date in the RFP. When the Contracting Officer verbally authorizes the work, the contractor will proceed with performance of the task order subject to the monetary limitation established in the task order awarded by the Contracting Officer.

## 8.0 Reporting Requirements

### Monthly Status Letter Reports

The contractor will provide a Monthly Status Letter Report (MLSR) to the NRC Technical Assistance Project Manager (TAPM), NRC Technical Program Monitor (TPM), the Contracting Officer, the NMSS/FCSS/SPB Branch Chief, and the NMSS/PMDA Division Director. The MLSR is due within fifteen (15) calendar days after the end of the report period. The MLSRs will include the following information for each individual task order:

*Technical Progress Report*

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The contractor will provide a Technical Progress Report identified by the title of the project, the contract number, task number, job code, Financial Identification Number (FIN), program manager and/or principal investigator, contract period of performance, and the period covered by the report. Each report must include the following information for each task order:

- (i) A description of the efforts completed during the period and milestone(s) reached or, if missed, an explanation must be provided
- (ii) Any problems or delays encountered or anticipated, and the recommendations for resolution
- (iii) A summary of progress to date
- (iv) Plans for the next reporting period

### *Financial Status Report*

The contractor will provide a Financial Status Report identified by the title of the project, the contract number, task number, job code, the period covered by the report, the contract period of performance, and the FIN. Each report must include the following information for each task order and the base contract:

- (i) Total estimated contract amount
- (ii) Total funds obligated to date
- (iii) Total costs incurred this reporting period
- (iv) Total costs incurred to date
- (v) Detail of all direct and indirect costs incurred during the reporting period for each task order
- (vi) Balance of obligations remaining
- (vii) Balance of funds required to complete the task order

### Final Task Reports/Deliverables

Except as otherwise stated in each task order, for each assigned task, the contractor will provide three (3) copies to the NRC TPM, one (1) copy to the NRC TAPM, and one (1) copy to the Contracting Officer. As a minimum, each final report must include the following information:

- (i) The financial identification number (FIN), contract number, job code, and task number
- (ii) A restatement of the task to which the Final Task Report/Deliverable is responding
- (iii) A description of the assumptions used in the analysis
- (iv) A description of any caveats regarding methods, data availability, or other matters that apply to each factor
- (v) An appendix with any computations that may be needed for explanation or illustration and a bibliography of any data sources

A draft version of the Final Task Report/Deliverable will be submitted to the TAPM (i.e., one copy) and TPM (i.e., three copies) prior to completion of the task to allow review and comments by the NRC staff. Detailed reporting schedules will be established for each task order.

**9.0 Deliverables and Schedule**

Deliverable items will be specified in each task order and may consist of written reports, briefing notes, viewgraphs, charts, tabulations, and other forms of presentation, as appropriate. All deliverable items will be provided in both hard copy and electronic versions.

The schedule for each task, various subtasks, and deliverable items will be outlined in each individual task order.

**10.0 NRC Furnished Material**

NRC will provide the following information to the contractor as appropriate:

- (i) License application and ISA Summary
- (ii) Applicants' responses to RAIs
- (iii) Applicable correspondence between the NRC and the applicant
- (iv) Applicable hearing documents
- (v) Applicable NRC regulations and guidance material
- (vi) Other applicable information and documents necessary to perform the requested tasks under each task order

**11.0 NRC Technical Assistance Project Manager and Technical Project Monitor**

NRC TAPM for this contract is:

Brenda J. DuBose  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Material Safety and Safeguards  
Program Planning, Budgeting, and Program Analysis Staff  
Mail Stop: EBB-1-D2M  
(301) 492-3247  
[Brenda.DuBose@nrc.gov](mailto:Brenda.DuBose@nrc.gov)

NRC TPM for this contract is:

Valerie D. Williams  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Material Safety and Safeguards  
Division of Fuel Cycle Safety and Safeguards  
Mail Stop: EBB-2-C40  
(301) 492-3118  
[Valerie.Williams@nrc.gov](mailto:Valerie.Williams@nrc.gov)

Technical instructions may not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. The NRC TPM is responsible for providing technical guidance to the contractor regarding staff interpretations of the technical aspects of regulatory requirements along with copies of relevant documents when requested by

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the contractor. All work products must be reviewed and approved by the NRC TPM before they are submitted as final documents. All technical direction given to the contractor must be consistent with the work scope and schedule. The NRC TPM is not authorized to unilaterally make changes to the approved work scope or schedule or give the contractor any direction that would increase costs over approved levels.