

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE 1

OF PAGES 2

2. AMENDMENT/MODIFICATION NO.
M006

3. EFFECTIVE DATE
See Block 15c.

4. REQUISITION/PURCHASE REQ. NO.
NMS-11-033 FAIMIS: 111768

5. PROJECT NO. (if applicable)

6. ISSUED BY CODE 3100
U.S. Nuclear Regulatory Commission
Div. of Contracts
Attn: Valerie Whipple
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)

SOUTHWEST RESEARCH INSTITUTE INC

6220 CULEBRA RD

SAN ANTONIO TX 782385100

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
NRC-02-06-021 T003

10B. DATED (SEE ITEM 13)
09-26-2008

CODE 007936842

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)

B&R: 50-11-38-4-149 JC: J5590 APPN: 31X0200 BOC: 252A FAIMIS: 111768 \$20,000

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

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

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 1 copies to the issuing office.

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

PLEASE SEE ATTACHED PAGES 2 FOR MODIFICATION DETAILS.

DUNS: 007936842 NAICS: 541990 PSC: R421

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)

Valerie M. Whipple
Contracting Officer

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

15C. DATE SIGNED

04/08/2011

16B. UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

16C. DATE SIGNED

4/8/11

NSN 7540-01-152-8070
PREVIOUS EDITION NOT USABLE

SUNSI REVIEW COMPLETE

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

TEMPLATE - ADMIN

APR 11 2011

ADMIN

The purpose of this modification is to (1) increase the level of effort by 182 hours, from 871 hours to 1,053 hours (see attached, revised Statement of Work), (2) to increase the ceiling by \$31,338, from \$151,853 to \$183,191, and (3) to incrementally fund the task order in the amount of \$20,000, from \$151,853 to \$171,853.

Ceiling: Of the 183,191 ceiling amount, \$170,830 represents the estimated cost (including facility capital) and \$12,361 represents the fixed fee for this task order.

Obligated Amount: Of the \$171,853 obligated amount, \$159,492 represents the estimated cost (including facility capital) and \$12,361 represents the fixed fee for this task order.

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

FY08 obligation amount:	\$20,000
FY09 obligation amount:	\$57,000
FY10 obligation amount:	\$74,853
FY11 obligation amount:	<u>\$20,000</u>
Cumulative Total:	\$171,853

This modification obligates \$20,000 in FY11 funds.

All other terms and conditions of this task order remain unchanged.

STATEMENT OF WORK
Task Order #3

PROJECT TITLE: SUPPORT FOR REVIEW OF GE-HITACHI FACILITY
LICENSE APPLICATION

JOB CODE: J5590

NRC PROJECT MANAGER: Brenda J. DuBose (301) 492-3437

NRC TECHNICAL MONITOR: Timothy C. Johnson (301) 942-3121

DCOKET NUMBER: 70-7016

1.0 Background

In April 28, 2008, General Electric-Hitachi (GEH) announced that it would construct a laser-based uranium enrichment facility in Wilmington, North Carolina, based on technology developed in Australia by Silex, Ltd. The facility would have a capacity of between 3 and 6 million Separative Work Units (SWU). GEH indicated that it would submit a license application for the facility by the end of 2008.

NRC staff will use 10 CFR Parts 40, 51, and 70 regulations as the basis for licensing the uranium enrichment facility. Regulations require that for uranium enrichment facilities, except laboratory-scale facilities designed or used for experimental or analytical purposes only, the preparation of an Environmental Impact Statement (EIS) is required. Also, there will be a mandatory hearing and there may be formal contested hearings conducted under 10 CFR Part 2, Subpart G. NRC must issue its license before any construction can begin. NRC staff will use NUREG-1520, "Standard Review Plan for the Review of a License Application for a Fuel Cycle Facility," as the basis for its review.

2.0 Objective

The objective of this task is to provide technical support to the NRC staff in reviewing and assessing the adequacy of the seismic, structural design, and tornado and high wind hazard evaluations performed by GEH in support of its license application and environmental report. The adequacy of the analyses should be based on 10 CFR Parts 40, 51, and 70. NUREG-1520, "Standard Review Plan for the Review of a License Application for a Fuel Cycle Facility," will also be used as the basis for the review.

3.0 Level of Effort

The estimated level of effort for this task order is 0.6 FTE. The increase to the level of effort will allow for: (1) additional hours needed for the structural review of the submittals on the GE building IROFS issue and (2) hearing support.

4.0 Period of Performance

The period of performance of this task order shall begin upon award and will expire on September 30, 2011.

5.0 Scope of Work

Review the seismic, structural design, and tornado and high wind analyses presented in the LES license application and environmental report. Consistency used in this Statement of Work refers to consistency with the regulations, with state-of-the-art analysis methods, and with the conclusions drawn from the data.

Subtask 1: In accordance with the requirements in 10 CFR Parts 40 and 70 and NUREG-1520, review the seismic, structural design, and tornado and high wind hazard analyses presented in the GEH license application and environmental report. Prepare Requests for Additional Information (RAIs), as needed, to document areas where additional information from the applicant is required to complete the licensing review. Review the applicant's response to the RAIs.

Activity 1 Review Plan

Prepare a draft and final review plan to describe the seismic, structural design, and tornado and high wind hazard reviews to be performed. Discuss the criteria to be used in assessing the adequacy of the applicant's analysis in the review plan.

Activity 2 Overall Issues

1. Have all significant issues related to defining the seismic, structural design, and tornado and high wind hazard areas been addressed in the application and environmental report?
2. Have Items Relied on for Safety (IROFS) boundary packages related to seismic, structural design, and tornado and high wind hazards been prepared consistently with the regulations and LES commitments in the Safety Analysis Report and supporting calculations in the Integrated Safety Analysis Summary?
3. For the seismic area, are the results consistent with the overall approaches defined in NRC regulations and LES commitments in the Safety Analysis Report and supporting calculations in the Integrated Safety Analysis Summary?

For the structural design area, are the results consistent with overall NRC approaches for evaluating:

(a) loads and load combinations (i.e., are all applicable loads (e.g., seismic, tornado, wind, flood, explosion, thermal, gravity (dead and live)) included and are the load combinations appropriate;

(b) codes and standards;

(c) structural design approaches (e.g., elastic vs. inelastic, soil-structure interactions, etc.);

(d) approaches to transform natural phenomena into loads;

(e) aircraft hazards;

For the tornado and high wind hazard area, are the results consistent with the overall approach defined in NRC regulations for: (a) mean and median hazard definitions (i.e., likelihood vs. magnitude); and (b) uncertainties.

4. Assist NRC staff in determining whether the performance requirements of the Integrated Safety Analysis in 10 CFR 70.61 are met.
5. Are there any limitations in using the results of the applicant's and contractor's evaluations for the proposed site?

Activity 3 Meetings and Conference Calls

As needed, participate in meetings and conference calls with NRC and the applicant to discuss the technical evaluations.

- Subtask 2: Prepare draft and final input to the NRC's Safety Evaluation Report to document the review and analyses performed in the seismic, structural design, and tornado and high wind hazard areas.
- Subtask 3: Provide hearing support, as needed. Review the contentions admitted by the NRC's Atomic Safety Licensing Board (ASLB) that are related to seismic, structural design, and tornado and high wind hazard issues at the proposed site of the GEH enrichment facility and other contentions as identified by NRC staff. Review other hearing documentation related to the admitted issues. As requested, research and prepare documents needed by NRC Office of the General Counsel staff for hearing briefs and other ASLB submittals. Provide oral testimony as needed to support NRC documentation related to the admitted contentions as identified by NRC staff. Provide testimony, as needed, for the mandatory hearing.
- Subtask 4: Assist NRC inspectors as needed during on-site inspections to Wilmington, North Carolina or unidentified contractor facilities. Three inspections per year are anticipated, in addition to 5 trips per year to NRC HQ.

6.0 Travel Requirements

NRC anticipates that during each year of the task order period, 5 trips to NRC Headquarters in Rockville, Maryland, and 3 trips to the facility site in Wilmington, North Carolina, or as yet unidentified contractor facilities will be necessary to perform inspections and discuss technical issues applicable to the seismic, structural design, and tornado and high wind hazard areas. Should it be determined that travel to an unidentified facility is required, a modification to the task order will be issued by the NRC Contracting Officer. These meetings are expected to last 2 days each and will consist of 2 contractor staff.

7.0 NRC Furnished Material

NRC staff will provide copies of GE-Hitachi application and environmental report, responses to NRC Requests for Additional Information, applicable NRC regulations, and applicable guidance materials.

8.0 Contractor Acquired Material

The contractor will obtain specialty subcontractors as necessary.

9.0 Deliverables and Schedule

Deliverable	Completion Date
Deliverable 1: Prepare and provide to responses for Requests for Additional information (Ref: Subtask 1)	1 month after receipt of responses for additional information
Deliverable 2: Prepare and provide Draft Review Plan (Ref: Subtask 1, Activity 1)	6 weeks after the task order is awarded given discussions with NRC staff and licensee begin immediately following the receipt of task order
NRC to provide comments to the contractor on the Draft Review Plan	4 weeks after the receipt of the Draft Review Plan
Deliverable 3: Prepare and provide Final Review Plan (Ref: Subtask 1, Activity 1)	3 weeks after receipt on NRC Comments on Draft Review Plan
Deliverable 4: Provide draft input for the Safety Evaluation Report (Ref: Subtask 2)	3 weeks after receipt of responses to Requests for Additional Information
NRC to provide comments to the contractor on the Draft Safety Evaluation Report	4 weeks after the receipt of the Draft Safety Evaluation Report

Deliverable 5: Provide final input for the Safety Evaluation Report (Ref: Subtask2)	1 month after receipt of comments from NRC
Deliverable 6: Prepare documents as needed for hearing briefs and other ASLB submittals. (Ref: Subtask 3)	As needed.

The schedule for deliverables is subject to change. The NRC will notify the contractor prior to any changes to this schedule.

The NRC staff will review and provide comments to the contractor on the submitted draft reports and documents. Upon receipt of the comments, the contractor shall address each comment and revise the report, as needed, to address NRC input.

11.0 Technical Direction

Timothy C. Johnson is designated as the NMSS Technical Project Monitor (TPM) for this task. Brenda J. DuBose is designated as the NRC Technical Assistance Project Manager (TAPM). The NMSS TPM is responsible for providing technical guidance to the performing organization regarding staff interpretations of technical aspects of regulatory requirements along with relevant documents when requested by the performing organization. All work products must be reviewed and approved by the NMSS TPM before they are submitted as final documents. All technical direction given to the performing organization must be consistent with the work scope and schedule. The NMSS TPM is not authorized to unilaterally make changes to the approved work scope or schedule or give the performing organization any direction that would increase costs over approved levels.