

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE 1

OF 1

2. AMENDMENT/MODIFICATION NO. MOD 3

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO. FAIMIS: 111280 NRR-11-071

5. PROJECT NO. (if applicable)

6. ISSUED BY

CODE 3100

7. ADMINISTERED BY (if other than Item 6)

CODE 3100

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

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

6220 CULEBRA RD

SAN ANTONIO TX 782385166

CODE D&B:007936842

FACILITY CODE

(X) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-03-10-078 NRC-03-10-078T001

X 10B. DATED (SEE ITEM 13) 07-02-2010

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.

12. ACCOUNTING AND APPROPRIATION DATA (If required) B&R: 2011-x0200-20-11-4-149 JC: J4388 BOC: 252A APPN: 31X0200.020 FAIMIS: 111280 \$0

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

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

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority) MUTUAL AGREEMENT OF THE PARTIES

E. IMPORTANT: Contractor is not, X 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.)

The purpose of this modification is to revise the Statement of Work to remove work related to St. Lucia Unit 2 which will be covered under Task Order Four (4). Therefore, the Statement of Work is deleted in its entirety and replaced with the attached, revised Statement of Work.

DUNS: 007936842 NAISC: 541690 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 Whipple Contracting Officer

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

15C. DATE SIGNED

3/9/2011

16B. UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

16C. DATE SIGNED

3/9/11

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 - ADM001

MAR 16 2011

ADM002

## MODIFIED STATEMENT OF WORK

Project Title: Technical Assistance for the Development of an Environmental Assessment for the St. Lucie Unit 1 Nuclear Power Plant Extended Power Uprate Licensing Action, U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation

JOB CODE:	J-4388
TASK ORDER:	1
B&R NUMBER:	2011-x0200-20-11-4-149
NRC ISSUING OFFICE:	Office of Nuclear Reactor Regulation
NRC PROJECT OFFICER (PO):	Brandon Cherry – (301) 415-3154 <a href="mailto:Brandon.Cherry@nrc.gov">Brandon.Cherry@nrc.gov</a>
TECHNICAL PROJECT MANAGER (TPM):	Richard Bulavinetz – (301) 415-3607 <a href="mailto:Richard.Bulavinetz@nrc.gov">Richard.Bulavinetz@nrc.gov</a>
FEE RECOVERABLE:	YES
TAC NUMBER:	ME3699
DOCKET NUMBER:	50-335
PERIOD OF PERFORMANCE:	Until March 31, 2011
TYPE OF CONTRACT: PERFORMING ORGANIZATION	Cost Plus Fixed Fee, Task Ordering Center for Nuclear Waste Regulatory Analyses (CNWRA hereafter Center)

### 1.0 BACKGROUND

The U.S. Nuclear Regulatory Commission (NRC) staff reviews applications from nuclear power plants for licensing actions. The licensing actions can range from simple administrative changes to their license, requests for exemptions from NRC regulations, to complex technical changes related to all aspects of the operation of the plant (i.e., nuclear safety, security, emergency preparedness, nuclear fuel, fire protection, radiation protection, quality assurance, maintenance, radioactive waste, non-radioactive waste, accident consequences, and power uprates).

The NRC staff performs an environmental assessment (EA) on the licensing actions in accordance with the requirements in 10 CFR Part 51, Subpart A – National Environmental Policy Act (NEPA) – Regulations Implementing Section 102(2).

The NRC staff is seeking assistance with the preparation of a complex EA for a request for an extended power uprate (EPU) from a nuclear power plant.

## **2.0 OBJECTIVE**

The objective of Task Order No. 1 (TO 1) is to obtain assistance with the preparation of the complex EA for the St. Lucie Unit 1 (St. Lucie) nuclear power plant EPU licensing action, including a preliminary meeting with the Center and obtaining related necessary information (e.g., requests for additional information to the licensee, and any site-specific information), to ensure that a thorough evaluation is performed. The St. Lucie Unit 1 nuclear power plant is located on Hutchinson Island in St. Lucie County, approximately 4.0 miles southeast of Fort Pierce, Florida.

## **3.0 STAFFING**

The staff assigned by the Center for Nuclear Waste Regulatory Analyses (the "Center") to the St. Lucie Unit 1 TO should have a general understanding of the range of issues covered by NRC EAs as outlined in the NRC's Office of Nuclear Reactor Regulation Office Instruction LIC-203, Revision 2. Center staff should have experience in the technical and regulatory aspects necessary for evaluating the environmental impacts for the broad range of licensing actions from nuclear power plants in the following areas: radiological and human health; land use; water use; air resources; ecology; threatened, endangered, and protected species and essential fish habitat; historical and cultural resources; socioeconomics and environmental justice, and cost-benefit analysis.

## **4.0 SCOPE OF WORK AND DELIVERABLES**

The Center shall prepare a complex EA for the EPU licensing action for the St. Lucie Unit 1 nuclear power plant licensed by the NRC.

The work conducted under Task 2 (below) shall be subject to the project management requirements as described in Section 5.0 of this Statement of Work (SOW).

### **4.1 TASK 1: MEETING TO PLAN TASKS 2 & 3**

The Center's Project Manager (CPM) and one Subject Matter Expert (SME) shall first meet with the NRC Project Officer (PO) and Technical Project Manager (TPM) in the Center's office in Rockville, MD, for task planning of the work to be performed under this TO. The SME may participate via a teleconference call.

The level of effort for work under Task 1 for this kickoff meeting is four hours each for the CPM and SME.

### **4.2 TASK 2: COMPLETE COMPLEX ENVIRONMENTAL ASSESSMENT**

The steps and procedures for completing Task 2 for a complex EA are broken down into the following Subtasks: Collect and Review Information (Subtask 2A); Plan, Draft, and Complete a Complex EA (Subtask 2B); Preparation of Draft EA (Subtask 2B1); and Revise Draft EA to Incorporate NRC Comments (Subtask 2B2). Details of each subtask are outlined below.

A licensing action for increasing the authorized power level (i.e., extended power uprate) at the St. Lucie Unit 1 nuclear power plant is complex, and typically involves a moderate to lengthy EA discussion (i.e., approximately 20 – 30 pages depending on the magnitude of the proposed power increase). Detailed information is required to evaluate the environmental impacts of an extended power uprate.

The total level of effort for work under Task 2 to complete the St. Lucie Unit 1 EPU EA is as follows: 4 hours by the Center's CPM; 88 hours by the Center's SME; and 12 hours by the Center's Administrative staff.

The Center shall submit the draft St. Lucie Unit 1 EPU EA to the NRC TPM no later than 25 business days after receipt of the licensing action information from the NRC TPM, as specified in Subtask 2B1. The Center shall submit the revised St. Lucie Unit 1 EPU EA to the NRC TPM no later than 15 business days after receipt of the NRC TPM's comments as specified in Subtask 2B2.

#### Subtask 2A: Collect and Review Information

The NRC Technical Project Manager (TPM) shall provide the Center with the license action request (LAR) submitted by the licensee, Florida Power and Light (FPL), for the St. Lucie Unit 1 nuclear power plant and associated relevant documents.

The Center shall review the LAR documents to determine if the licensee provided adequate information needed for the EA. The Center shall identify and list areas that require additional information and provide that list to the NRC TPM.

The Center shall keep the NRC TPM informed (either via e-mail, phone call, or personal meeting) on a bi-weekly basis and describe the information reviewed under this task, including deficiencies found in the LAR, and describe the actions to be taken to complete the St. Lucie Unit 1 EPU EA in a timely manner. Within 10 business days after receipt of the LAR, the Center shall provide the NRC TPM with a list of the deficiencies, if any, of information provided in the LAR. The NRC shall review this list and communicate the deficiencies to the licensee. If a formal Request for Additional Information (RAI) is submitted to the licensee, the NRC will adjust the work schedule accordingly. The Center shall consider any coordination necessary to cover laws and regulations other than NEPA.

The level of effort for work under Subtask 2A to collect and review information for the St. Lucie Unit 1 EPU licensing action is approximately 24 hours performed by the Center's SME.

#### Subtask 2B: Plan, Draft and Complete a Complex Environmental Assessment

The scope of work under Subtask 2B shall involve planning, drafting, and completion of the St. Lucie Unit 1 EPU EA to evaluate the impacts of the proposed licensing action. The effort shall consist of Subtasks as described below.

Subtask 2B work shall be initiated concurrently with Subtask 2A. The level of effort for work under Subtask 2B to plan, draft and complete the St. Lucie Unit 1 EPU EA is as follows: a total of 4 hours by the Center's CPM; 64 hours by the Center's SME; and 12 hours by the Center's Administrative staff.

Unless directed otherwise by the NRC TPM, the Center shall concurrently (with Subtask 2A) begin work on Subtask 2B1.

#### Subtask 2B1: Preparation of Draft Environmental Assessment

Using the information provided by the NRC TPM (i.e., license action, related supplemental information, and the licensee's response to any RAIs), the Center shall follow LIC – 203, Revision 2, "Procedural Guidance for Preparing Environmental Assessments and Considering Environmental Issues," in preparation of the draft St. Lucie Unit 1 EPU EA. Deviations from the outline shall be approved by the NRC TPM. The NRC TPM shall provide several complex EAs which show examples of the types of licensing actions submitted by nuclear power plants for the Center to follow, including EPU EAs. The Center shall focus the discussion on the human health and environmental issues that will be potentially impacted by the licensing action.

The Center shall submit the draft St. Lucie Unit 1 EPU EA to the NRC TPM no later than 25 business days after receipt of the licensing action information from the NRC TPM, as specified in Task 2.

The level of effort for work under Subtask 2B1 to prepare the draft St. Lucie Unit 1 EPU EA is as follows: a total of 2 hours by the Center's CPM; 50 hours by the Center's SME; and 8 hours by the Center's Administrative staff.

#### Subtask 2B2: Revise Draft Environmental Assessment to Incorporate NRC Comments

The Center shall revise the draft EA based on the comments received from the NRC. The Center shall submit the revised EA to the NRC TPM no later than 15 business days after receipt of the NRC TPM's comments, and no later than March 31, 2011.

The level of effort for work under Subtask 2B2 to revise and complete the St. Lucie Unit 1 EPU EA is as follows: a total of 2 hours by the Center's CPM; 14 hours by the Center's SME; and 4 hours by the Center's Administrative staff.

An additional 20% level of effort is provided to the Center's CPM, SME, and Administrative staff under Task 2 for completion of the St. Lucie Unit 1 EPU EA as Task Order No. 1, to allow additional time for the Center staff to become familiar with the NRC's process for preparing a complex EA. Therefore, the total level of effort for work under Task 2 to complete the St. Lucie Unit 1 EPU EA is as follows: 5 hours by the Center's CPM; 106 hours by the Center's SME; and 15 hours by the Center's Administrative staff.

### 4.3 TASK 3: FINAL PRODUCTS

The Center shall provide the NRC with at least one paper copy of the Environmental Assessment for the completed St. Lucie Unit 1 EPU licensing action and 10 copies in CD format. Details are provided in Section 12 below. The level of effort for work under Task 3 to produce one paper copy and 10 copies in CD format for the St. Lucie Unit 1 EPU EA is 4 hours by the Center's Administrative staff.

## **5.0 PROJECT MANAGEMENT**

### Maintain Effective Communication with NRC Staff

The Center shall maintain effective communication with NRC staff to help coordinate and integrate EA preparation with NRC's technical and decision-making activities. For the duration of Task 2, the Center shall participate in a bi-weekly telephone call with the NRC's TPM to discuss the status of the EA.

If requested by the NRC's TPM, the Center's Team Leader and the NRC TPM shall participate in additional face-to-face meetings held in either the NRC's Rockville, Maryland, office or at the Center's Rockville office. The meetings will be of a short duration (typically 1-2 hours) and, when occasionally held, will substitute for the bi-weekly conference calls between the Center and the NRC. The Center's SME may participate via a teleconference call.

### Other Communication

The Center shall coordinate all necessary NRC communication (other than communications for the Project Officer) for Tasks 2 through the NRC's TPM.

### NRC Comments

The Center shall resolve all NRC comments through the NRC TPM when making revisions to any deliverable under this TO.

### Quality Assurance for the Project

The Center shall implement and maintain quality assurance requirements for the project in accordance with Section 14.0 of this SOW.

## **6.0 ACCEPTANCE CRITERIA**

The Center shall document the preparation of the St. Lucie Unit 1 EPU EA and maintain appropriate records. The draft EA and final EA shall provide sufficient detail to enable members of the public to generally understand the basis of the conclusions.

## **7.0 LEVEL OF EFFORT**

The total level of effort under Task Order No. 1 to complete one complex EA is as follows:

Task 1	04 hours management oversight 04 hours technical
Task 2	05 hours management 106 hours technical 15 hours administrative
Task 3	04 hours administrative

## **8.0 MEETINGS AND TRAVEL**

As requested by the NRC TPM and discussed under Task 1, the CPM shall meet with the NRC Project Officer (PO) and TPM at the NRC office in Rockville, Maryland, for a task planning meeting. The NRC TPM may choose to periodically meet with the Center at its office in Rockville to review the status of work and provide input into the project, as discussed in Section 5. No funds are required for travel, since the NRC's Headquarters office and the Center's Rockville office are located less than one mile apart from each other.

## **9.0 NRC FURNISHED MATERIAL**

The NRC TPM will provide the following materials to the Center at the beginning of Task 1:

- Licensee's license action request
- Copies of documents related to the license action request
- Copy of LIC – 203, Revision 2, "Procedural Guidance for Preparing Environmental Assessments and Considering Environmental Issues"
- Copies of completed EAs to be used as examples for format and content

The NRC TPM will provide the Center with new information and related documents to support the preparation of the EA on an as-needed basis.

## **10.0 CENTER-ACQUIRED MATERIAL**

No materials are expected to be acquired by the Center under this task order.

## **11.0 PERIOD OF PERFORMANCE**

The period of performance for this effort shall be for a four month period to commence on the effective date of the TO award, currently extended to March 31, 2011.

## **12.0 REPORTS**

Submittals for Task 2 by the Center shall be submitted via electronic mail with attachments consistent with the word processor in use at the NRC (Microsoft Word 2007), along with copies in portable document format (i.e., \*.pdf). At a minimum, the Center shall provide one paper copy and 10 CD copies of the Task 2 final EA to the NRC's PO and TPM. The EA provided by the Center shall be in a report form similar to the sample EAs provided to the Center by the NRC TPM.

## **13.0 TECHNICAL DIRECTION**

Richard Bulavinetz is the designated NRC TPM for this task order. Brandon Cherry is the designated NRC PO. Technical instructions may be provided to the Center during the duration of Task 2 of this TO. Technical instructions shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance.

Directions, if any, for changes in scope of work, cost, or period of performance will be issued by the NRC Contracting Officer.

#### **14.0 STANDARD WORK PRACTICES**

For all draft and final reports under this task order, the Center shall assure that an independent review of numerical computations and mathematical equations and derivations is performed by qualified personnel other than the original author(s) of the reports and other than the person who performed the original calculation. If the Center proposes to check less than 100 percent of all computations and mathematical equations and derivations in the report(s) (such as may be the case when there is a large number of routine, repetitive calculations), the Center must first obtain written approval from the NRC's TPM.

In addition, the final EA report under this TO, including those which do not contain numerical analyses must be reviewed by the Center's management and approved with two signatures. One signature must be from the Center's Task Leader, and one signature must be from a manager at a higher managerial level than the Task Leader.

When revisions for the reports are issued by the Center, a section must be included in the revised report to document dates of, reasons for, and scope of all changes made since the issuance of the first Center's approved report.

NRC has the option of appointing a Peer Group to review, comment upon, and recommend changes to the draft and final reports. The Center may recommend candidates for the Peer Group for approval by the NRC's TPM or PO.

In the occasion of dissent in the content of the final report, the dissenting party shall have the option of stating their viewpoints and findings in a section of the report. This section does not require the development of a formal quality assurance program nor does it require formal quality assurance program documentation or review.

APPENDIX A  
SCHEDULE AND DELIVERABLES

TASK	DELIVERABLE	SCHEDULE
1	Task Planning Meeting	Upon Agreement by NRC and the Center
2B1	Preparation of Draft Complex St. Lucie Unit 1 EPU Environmental Assessment	25 business days after receipt of Information from NRC
2B2	Revise Draft Environmental Assessment to Incorporate NRC Comments	15 business days after receipt of NRC TPM's comments
3	Provide Final Products	Provided upon completion of 2B2 and by March 31, 2011