

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

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2. AMENDMENT/MODIFICATION NO. 0001

3. EFFECTIVE DATE MAY 27, 2009

4. REQUISITION/PURCHASE REQ. NO. 42-07-481T046M001 NRO 09748146012

5. PROJECT NO.(If applicable)

6. ISSUED BY CODE 3100 U.S. Nuclear Regulatory Commission Div. of Contracts Attn:Kala Shankar 301-492-3638 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)

N J NUMARK ASSOCIATES INC NUMARK ASSOCIATES, INC.

1220 19TH ST NW STE 500 WASHINGTON DC 200362444

CODE 788247377

FACILITY CODE

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-42-07-481 0046

10B. DATED (SEE ITEM 13)

X

09-22-1908

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.

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:

X D. OTHER (Specify type of modification and authority) Pursuant to FAR 52.243-2, Changes Cost-Reimbursement ALT 1 Mutual Agreement of Both Parties

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.)

The purpose of this modification is to 1) increase the task order ceiling by \$75,060 from \$284,850 to \$359,910 to reflect the additional level of effort; 2) incorporate the revised SOW and 3) extend the period of performance.

Task Order Ceiling Amount: \$359,910 (changed)

Total Obligated Amount: \$220,000 (unchanged)

Period of Performance: 09/22/2008 - 12/31/2010 (changed)

See continuation page

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)

Neil J. Numark, President

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

Kala Shankar Contracting Officer

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

15C. DATE SIGNED

5/27/09

16B. UNITED STATES OF AMERICA

BY Kala Shankar (Signature of Contracting Officer)

16C. DATE SIGNED

5/26/09

The purpose of this modification is to 1) incorporate the revised statement of work to reflect an increase to the Level of Effort; 2) increase the task order ceiling to reflect the additional level of effort; and 3) extend the period of performance. Accordingly, the subject task order is hereby modified as follows:

Paragraphs 2, page 2 of 2 under the base task order 46, is hereby deleted in its entirety and replaced with the following:

Task Order No. 46 shall be in effect from 09/22/08 through 12/31/2010 with a cost ceiling of \$359,910. The amount of \$336,364 represents the estimated reimbursable costs, and the amount of \$23,546 represents the fixed fee.

A summary of obligations for this task order, from award date through the date of this action is given below:

Total FY08 Obligation Amount:	\$220,000.00
Total FY09 Obligation Amount:	<u>\$ 0.00</u>
Cumulative Total of NRC Obligations:	\$220,000.00

\*\*\*ALL OTHER TERMS AND CONDITIONS OF THE SUBJECT TASK ORDER  
REMAIN UNCHANGED\*\*\*

### TASK ORDER STATEMENT OF WORK

JCN Q-4012	Contractor Numark Associates, Inc.	Task Order No. NRC-42-07-481 (46 Mod 1)
Applicant UNISTAR	Design/Site EPR Calvert Cliffs	Docket No. 05200016
Title/Description EPR Calvert Cliffs SER Technical Assistance in SER Production Work		
TAC No. RX0566	B&R Number 925-15-171-111	SRP or ESRP Section(s) 1 thru 19
NRC Task Order Project Officer (PO) David D'Abate	301-415-0667	David.DAbate@nrc.gov
NRC Technical Monitor (TM) Tarun Roy	301-415-0493	Tarun.Roy@nrc.gov

#### 1.0 BACKGROUND

Combined Operating License (COL) Applications are submitted pursuant to Part 52 of Title 10 of the *Code of Federal Regulations* (10 CFR 52), "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants." The U.S. Nuclear Regulatory Commission (NRC) reviews COL Applications based on information furnished by electric utility companies pursuant to 10 CFR 52.79, "Contents of Applications Technical Information."

A Standard Review Plan (NUREG-0800) is **available to provide** guidance to staff reviewers in the Office of New Reactors in performing safety reviews of applications to construct or operate nuclear power plants and the review of applications to approve standard designs and sites for nuclear power plants. The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews.

The staff publishes the results of these reviews in a Safety Evaluation Report (SER).

#### 2.0 OBJECTIVE

The objective of this task order is to obtain **technical expertise** from the contractor to integrate the technical input received from the staff technical reviewers into the SER COL templates previously developed by the contractor. The deliverables from the contractor will be the completed and technically edited; formatted draft SER with open items will be utilized by the NRC staff for documenting the results of the staff review of the Calvert Cliffs COL application.

**An Environmental Safety Review Plan (ESRP) (NUREG-1555) is available for the guidance of staff reviewers in performing environmental reviews of applications related to nuclear power plants. The ESRPs are companions to regulatory guides that address siting and environmental issues. As with NUREG-0800, the purpose of the ESRP is to assure the quality and uniformity of environmental reviews.**

The staff publishes the results of these reviews in a Safety Evaluation Report (SER).

#### 3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks/Standards	Scheduled Completion *	Deliverables
1. Develop Project Plan include: configuration and quality control, develop tentative schedule for deliverables based on review phase milestones contained within the project specific schedule in EPM.	Four Weeks after award of Task Order.	Project Plan and tentative schedule.

Tasks/Standards	Scheduled Completion *	Deliverables
2. REQUIREMENT: Phase 1 input (e.g., Preliminary Safety Evaluation Report (PSER), technical evaluation and conclusions) incorporated into corresponding template, PSER edited, formatted and revised based on updated SER User Guide.	Each Chapter PSER shall be completed within two weeks after final Chapter input by NRC provided to contractor.	Chapter PSER using templates and PSER input by Chapter for the COL.
3. REQUIREMENT: Phase 2 SER input (e.g., responses to requests for additional information) incorporated into corresponding Draft SER with open items.	Each Draft Chapter SER with open items shall be completed within two weeks after final Chapter input by NRC is provided to contractor.	Draft SER with open items.
4. REQUIREMENT: Phase 2: Appendices (See Attachment 2) list of open items by Chapter to be incorporated into SER Chapter 1	Two weeks prior to completion of last SER Chapter with open items.	Included in Item 3, above.
5. REQUIREMENT: Phase 4 SER input (e.g., responses to open items and confirmatory items) incorporated into corresponding draft advanced final SER.	Two weeks after advance final Chapter input by NRC provided to contractor	Draft Advanced Final SER
6. REQUIREMENT: Phase 6 FSER input as provided by technical staff incorporated into draft final SER.	Two weeks after final Chapter input by NRC provided to contractor	Draft Final SER

\*These Work Schedules are subject to change by the NRC Contracting Officer (CO) to support the needs of the NRC Licensing Program Plan (LPP).

The Technical Monitor may issue technical instruction from time to time throughout the duration of this task order. Technical instructions must be within the general statement of work delineated in the task order and shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. The contractor shall refer to Section G.1 of the base contract for further information and guidance on any technical directions issued under this task order.

Any modifications to the scope of work, cost, or period of performance of this task order must be issued by the CO and will be coordinated with the NRO Project Officer.

#### **4.0 TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED**

As specified in the base contract, the contractor shall provide individuals who have the required educational background and work experience to meet the objectives of the work specified in this task order. Specific qualifications for this effort include:

As a minimum, qualified personnel to perform technical evaluations, proficient in MS word formatting features, technical editing, and the performance of NRC legal reviews.

The contractor shall pursue IT2 clearance for access to NRC network, specifically ADAMS.

The contractor shall provide a contractor project manager (PM) to oversee the effort and ensure the timely submittal of quality deliverables so that all information is accurate and complete as defined in the base contract.

The NRC will rely on representations made by the contractor concerning the qualifications of the

personnel assigned to this task order, including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful. The resume for each professional proposed to work under this task order (contractor, subcontractor, or consultant) shall describe the individual's experience in applying his or her area of engineering specialization to work in the proposed area. The use of particular personnel on this contract is subject to the NRC technical monitor's (TM's) approval. This includes any proposed changes to key personnel during the life of the task order.

## **5.0 REPORTING REQUIREMENTS**

### **Task Order Progress Report**

The contractor shall provide a **semi-monthly** progress report summarizing accomplishments, expenditures, contractor staff hours expended, percent completed for each task under this task order, and any problems encountered by the contractor. Additionally a matrix should be added that includes of all sections received, reviewed (redlined) and sent back to the NRC. The report shall be sent via e-mail to the NRC TM, Task Order Project Officer (PO), CO and to the pre-designated NARP Projects licensing assistant (LA) whom will monitor correspondence for this project.

Please refer to Section F of the basic contract award document for contract reporting requirements.

### **Technical Reporting Requirements**

Unless otherwise specified above, the contractor shall provide all deliverables as draft products. The NRC TM will review all draft deliverables (and coordinate any internal NRC staff review, if needed) and provide comments back to the contractor. The contractor shall revise the draft deliverable based on the comments provided by the TM, and then deliver the final version of the deliverable. When mutually agreed upon between the contractor and the TM, the contractor may submit preliminary or partial drafts to help gauge the contractor's understanding of the particular work requirement.

The contractor shall provide the following deliverables in hard copy and electronic formats. The electronic format shall be provided in MS Word including Style, Formatting and Technical Editing or other word processing software approved by the TM. For each deliverable, the contractor shall add and profile files within ADAMS and provide electronic copy to the PM, the TM, and the LA. The schedule for deliverables shall be contained in the approved project plan for the task order effort.

In all correspondence, include identifying information: JCN No.: Q-4012; Technical Assignment Control No. (TAC): RX0566; Task Order No.: 46; the licensee: UniStar; and the site: Calvert Cliffs.

At the completion of Task 3, submit a Technical Evaluation Report (TER) that contains, for each Sub-section of the SER (see Attachment 1 for the outline, format and content of the report): a completed description of the information proposed by the applicant including the assumptions for the analysis, design, and references to consensus standards; review findings (including the basis for the findings), as a result of comparison with the review guidelines; and a list of "Requests for Additional Information" (RAIs).

At the completion of Task 4, submit a TER (see Attachment 1) that contains a summary of the review results and the updated report completed under Task 3 incorporating the findings from the resolution of the RAIs. Include a separate list of the remaining open items and the basis for such determination.

**At the completion of Task 5 (phase 4), submit a Technical Evaluation Report (TER) that**

contains, for each Sub-section of the SER (see Attachment 1 for the outline, format and content of the report): a description of the information proposed by the applicant including the assumptions for the analysis, design, and references to consensus standards; review findings (including the basis for the findings), SER input (e.g., responses to open items and confirmatory items) incorporated into corresponding draft advanced final SER.

At the completion of Task 6 (phase 6), submit a TER (see Attachment 1 for the outline, format and content of the report) that contains a summary of the review results and the updated report completed under FSER input as provided by NRC technical staff incorporated into draft final SER. Provide technical support to prepare for ACRS meetings.

The primary deliverables, or output of this regulatory review, shall be the updated and properly formatted draft Final Safety Evaluation Reports (FSERs). The draft FSERs will serve as input to the NRC staff's SERs which will document the NRC's technical, safety, and legal basis for approving the COLA application. The draft FSERs must provide sufficient information to adequately explain the NRC staff's rationale for why there is *reasonable assurance* that public health and safety is protected. The draft SERs, and ultimately the FSERs, should be written in a manner whereby a person with a technical (non-nuclear) background and unfamiliar with the applicant's request could understand the basis for the staff's conclusions.

The contractor is responsible for structuring the draft SER format to follow Federal and agency standards for publications and the requirements of 'Development of EPR SER Templates for DC and COL Applications' (Task Order 17). The contractor must use the latest agency-designated version of this agency standard. The word processing source file and electronic "print" file in Portable Document Format (PDF) should be automated, structured, and reusable (i.e., applies templates, contain automatic bookmarks, and have "live" Web links). The contractor must consider long-term use and revision when establishing styles. This will be evidenced by styles that are constructed for ease of use and that apply automated functions. The contractor must provide a style sheet itemizing the specifications for each style or tag applied in the word processing program. For example, the style sheet will note the name of the style, formatting details, and the specific functions of and use for each style.

The contractor should acquire NRC network/ADAMS access and provide accessible, archival-quality, print-ready, Web-enabled DOC source files that meet Federal and agency requirements for publications. These source files are entered in ADAMS and on finalization by the NRC TM, will be converted by ADAMS into Web-enabled PDFs. The printed version is to be made from the electronic file. Alternatively, on an interim basis while the contractor is pursuing IT2 clearance, the contractor will provide accessible, archival-quality, print-ready, Web-enabled PDF and DOC source files that meet Federal and agency requirements for publications. The print and electronic copies must match (suggestion: print the paper copy from the PDF, which is generated from the MS Word DOC file).

Electronic files should be –

1. Accessible: Comply with Section 508 of the Rehabilitation Act (check the accessibility); accessible to screen readers; high contrast in black and white and, if any color is used; such information conveyed with color shall be conveyed equally well when color is not available.
2. Archival: Generate PDF using PDF/A format, an international standard for archival PDF; embed fonts; update/delete metadata.

3. Print-ready: Min. 600 dpi (1200 dpi recommended) for high-quality, professional printing; include print disclaimers for any scanned or pixelated images; the PDF should be an entire document, including cover, inside cover, title page, Form 335, etc. (see NUREG-1757).
4. Web-enabled (electronic): Bookmarks for navigation (generated by MS Word with the heading styles applied); live links to Web sites (entire URL must be active); meet NRC Web publication standards; enabled for Fast Web view; match agency-wide electronic standards (<http://www.nrc.gov/site-help/e-submittals.html>).

Specifically, the MS Word file should use:

1. Styles
2. Automated formatting (no manually tabbed columns)
3. Linked bookmarks or anchors for the table of contents or other document guides that jump to specific sections of the text
4. Headers and other structural markup
5. Abbreviation list
6. List and link figures, equations, tables, etc.
7. Formatted tables with simple columns (do not nest tables, mark column headers if possible)
8. Embedded fonts and objects

Suggestions for file names:

1. Use ASCII letters (a-z, A-Z), digits (0-9), underscores and hyphens (“\_” and “-”).
2. Do not use spaces, quotation marks, diacritic marks or other special/non-printing characters.
3. Reserve the period (“.”, full stop) for the file extension at the end of the filename.

## **6.0 MEETINGS AND TRAVEL**

- a. One person, one day working meeting to kickoff project and contractor orientation.\*
- b. **Three**, One person, one day working meetings at NRC headquarters to review deliverables.\*

\*At the discretion of the NRC TM, meeting may be conducted via telephone or video conference.

## **7.0 NRC FURNISHED MATERIAL**

The following NRC furnished materials will be provided to the contractor together with SOW:

- a. Copy of the Calvert Cliffs COL application.
- b. COL template.

## **8.0 LEVEL OF EFFORT**

The estimated level of effort in professional staff hours apportioned among the tasks and by labor category is as follows:

Task(s)	Labor Category	Level of Effort FY-08 (hours)	Level of Effort FY-09 (hours)	Level of Effort FY-10 (hours)
1. Project Plan	Project Manager	60	60	0
2. Phase 1 integration	Technical staff Editor	180	170	0

Task(s)	Labor Category	Level of Effort FY-08:(hours)	Level of Effort FY-09:(hours)	Level of Effort FY-10:(hours)
	Document specialist	340	330	0
	Subject Matter Expert	40	40	0
3. Phase updated draft SER with open items	Technical staff Editor	100	100	40
	Document specialist	180	170	0
4. List of appendices and open items to be incorporated into Chapter 1	Technical staff Editor	40	40	50
	Document specialist	60	60	0
5. Phase 4 SER (e.g. responses to open items and confirmatory items) incorporated into corresponding draft advanced final SER	Subject Matter Expert	0	20	20
	Technical staff Editor	0	10	40
	Document Specialist	0	20	130
6. Phase 6 SER input as provided by technical staff incorporated into draft final SER	Technical Staff Editor	0	10	40
	Document Specialist	0	20	130
Task 1 – 6	Project Manager	100	90 110	30 80
Task 1 – 6	Admin. Support	120	120 150	30 80
Total = 2550		1220	4180 1310	450 610

## 9.0 PERIOD OF PERFORMANCE

The projected period of performance is 28 Months from date of task order award.  
**The deliverable for the completed RCOL final TER is December 31, 2010.**

## 10.0. OTHER APPLICABLE INFORMATION

### a. License Fee Recovery

All work under this task order is fee recoverable and must be charged to the appropriate TAC number(s).

### b. Assumptions and Understandings:

The level of effort for Task 2 is based assumption that there will be approximately 19 chapters and it will take, on the average, 75 hours to integrate, format, edit each chapter.

The level of effort for Task 3 is based on the assumption that this task will be approximately one-third the effort of Task 2, as the scope is limited to additional content based on RAI responses and through normal staff concurrence.

The level of effort for Task 4 is based on the assumption that there will be approximately 19 chapters and it will take, on the average, 10 hours to develop necessary appendices and contents.

**The level of effort for Task 5 is based on that there will be 19 chapters and it will take, on the average, 8 hours to integrate, format, edit each chapter.**

**The level of effort for Tasks 6 are based on that there will be 19 chapters and it will take, on the average, 8 hours to develop necessary appendices, contents and draft final SER.**

It is assumed that the contractor has access to the NRC furnished material available on the Internet.

In addition to general document quality standards, the contractor should meet the standards in –

1. U.S. Government Printing Office (GPO) Style Manual
2. NUREG-0650, Rev, 2, "Preparing NUREG-series Publications"
3. NUREG-1379, "NRC Editorial Style Guide"
4. NUREG-0544, "NRC Collection of Abbreviations"
5. [www.plainlanguage.gov](http://www.plainlanguage.gov)
6. Section 508 of the Rehabilitation Act

Attachments:

1. Outline, Format, and Content for the TER Input
2. Appendices

Attachment 1

Outline of the TER

General Discussion

The Proposed TER will consist of:

- 1) Staff input (Technical evaluation and conclusion) integrated into SER template.
- 2) Red-line strike out of Staff input (Technical evaluation and conclusion)
- 3) Original staff input (technical evaluation and conclusion)

One TER will be provided for each chapter of the SER (19 total)

One separate TER will be provided for all the appendices.

Attachment 2

List of Appendices

- A - Chronology
- B - References
- C - Abbreviations
- D - Principal Contributors (supplied by NRC)
- E - Chronology of NRC'S Request for Additional Information (RAI)
- F - Combined License Action Items
- G - ITAAC Cross-Reference
- H - Technical Specifications Cross-Reference
- I - Initial Test Program Cross-Reference
- J - 10 CFR 20.1406, Minimization of Contamination Cross- Reference
- K - Generic Issues Cross-Reference
- L - Report on Advisory Committee on Reactor Safeguards (ACRS) (supplied by NRC)