

2. AMENDMENT/MODIFICATION NO. 0015 3. EFFECTIVE DATE See block 16c. 4. REQUISITION/PURCHASE REQ. NO. NRO-11-299 Dated: 07/25/2011 5. PROJECT NO. (if applicable)

6. ISSUED BY CODE 3100 U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Morie Gunter-Henderson 301-492-3646 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 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-42-07-481 0041 10B. DATED (SEE ITEM 13) 09-22-2008

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) 2011-25-17-4-118 Q4159 252A 31X0200 Obligate: \$80,000.00 FSS# 113679 DUNS: 788247377 NAICS Code: 541990

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 Between the Parties X

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.) The purpose of this modification is to (1) increase the level of Effort by 1,353 hours thereby increasing the ceiling by \$147,050.00 as seen in the attached revised SOW; (2) Extend the Period of Performance through 09/30/2012 and (3) add incremental funding in the amount of \$80,000.00.

Task Order Ceiling Amount: \$940,896.00 (changed)
Total Obligated Amount: \$873,846.00 (changed)
Period of Performance: 09/22/2008 - 09/30/2012 (changed)

ALL OTHER TERMS AND CONDITIONS REMAINS UNCHANGED.

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 15B. CONTRACTOR REFEROR (Signature of person authorized to sign) 15C. DATE SIGNED 9/15/11 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Morie Gunter-Henderson Contracting Officer 16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer) 16C. DATE SIGNED 9/16/11

SUNSI REVIEW COMPLETE

TEMPLATE - ADM001

SEP 16 2011

ADM002

The purpose of this modification is to add additional Level of effort in the amount of 1353 hrs as seen in the attached revised statement of work, reflect a subsequent increase to the ceiling; and add incremental funds in the amount of \$80,000.00 accordingly; the subject task order is hereby modified as follows:

Paragraph 2, page 2 of 2 under the base task order 41, is hereby deleted in its entirety and replaced with the following:

“Task Order No. 41 shall be in effect from 09/22/08 through 09/30/2012 with a cost ceiling of \$940,896.00. The amount of \$879,342.00 represents the estimated reimbursable costs, and the amount of \$61,554.00 represents the fixed fee.

Paragraph 3, page 2 of 2 under the base task order 41, is hereby deleted in its entirety and replaced with the following:

“The amount obligated by the Government with respect to this task order is \$873,846.00 of which \$816,678.00 represents the estimated reimbursable costs, and the amount of \$57,168.00 represents the fixed fee.”

A summary of obligations for this task order from the award date through the date of this modification is as follows:

Total FY08 Obligated:	\$265,000.00
Total FY09 Obligated:	\$125,000.00
Total FY10 Obligated:	\$ 253,000.00
Total FY11 Obligated:	<u>\$ 230,846.00</u>
Total NRC Obligations:	\$ 873,846.00

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED AND IN FULL FORCE AND EFFECT.

**MODIFICATION
TASK ORDER STATEMENT OF WORK**

JCN Q-4159	Contractor Numark Associates, Inc.	Task Order No. NRC-42-07-481 (41 Mod 15)
Applicant AREVA NP Inc	Design/Site EPR	Docket No. 05200020
Title/Description Integration of EPR SER Template Data for AREVA DC Application		
TAC No. RX0550	B&R Number 2011-25-17-4-118	SRP or ESRP Section(s) 1 thru 19
NRC Task Order Project Officer (PO) Meghan Blair	301-415-5242	Meghan.Blair@nrc.gov
NRC Technical Monitor (TM) Tanya Ford	301-415-1194	Tanya.Ford@nrc.gov

This increase to the ceiling and schedule extension relates to changing NRC requirements. Additional time and resources are needed to provide SER Integration. Further, additional assistance provided to identify to DNRL EPR Projects technical issues require resolution. Editing requirements have been significantly increased by the NRC, as a result of lessons learned, over the Level 1 technical editing requirement specified in the original SOW. Also work currently required has been increased by approximately 25% over the original SOW due to restructuring of Chapter 3, 7 and 15 into two or more groups.

This level of effort increase is due to the original level of effort and complexity of work being underestimated.

1.0 BACKGROUND

Design Certification (DC) and Combined License (COL) Applications are submitted pursuant to Section 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 DC and COL Applications based on information furnished by applicants pursuant to 10 CFR 52.47 and 10 CFR 52.79 respectively. Applicants also utilize the guidance pertaining to the contents of the applications included in RG-1.206 in preparing their applications.

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 contractor's services to integrate the technical input for the staff technical reviewers into the SER DC 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 EPR DC application.

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.
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 DC.
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 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.

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, need to be 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-4159; Technical Assignment Control No. (TAC), RX0550; Task Order No.: 41; the licensee: AREVA; and, the site: N/A.

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

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). See Attachment 1 in the base contract SOW for the guidelines for developing 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.

Prior to the start of Task 5 (phase 4), the NRC will submit a Phase 4 document to Numark for processing. When a P4 Word document resolving an Open and or Confirmatory Item is sent to Numark for processing, it is expected that the following will occur:

1. Numark will provide technical editing of the Open or Confirmatory Item response.
2. Technical editing of Open or Confirmatory Item write ups will be sent back to NRC as Microsoft (MS) Word files (clean version [RO] and a redline strikeout [RSO]) versions. These files do not require:
 - a. cover sheet
 - b. table of contents
 - c. list of figures
 - d. list of tables
 - e. MS Word "keep together" for all items ("Keep together" can be used if text is hanging at the end of a line.)
 - f. footer page numbering changes
 - g. changes in section numbering
3. The following text editing will be performed at NRC:
 - a. format / styling
 - b. text consistency
 - c. abbreviations/acronyms used first time in chapter
 - d. reference confirmation

Note: The P4 Word document(s) resolving an Open or Confirmatory Item could be a single paragraph or a set of paragraphs from the P2 safety evaluation with no open items.

At the completion of Task 5 (phase 4), submit a Technical Evaluation Report (TER), for each Sub-section of the SER, as described in item 2 above.

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 DC 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, One person, one day working meeting to kickoff project and contractor orientation.*
- b. One person, per 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. Electronic optical Storage media of US-EPR DC SER templates and PSERs.
- b. CD-ROM containing the Final Safety Evaluation Report of the DCD and original staff input (technical evaluation and conclusion)

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)	Level of Effort FY-11 (hours)	Level of Effort FY-12 (hours)
1. Project Plan	Project Manager	60	60	0	0	0
2. Phase 1 integration	Technical staff Editor	80	75	0	0	0
	Document specialist	100	270	0	0	0
3. Phase 2 updated draft SER with open items	Technical Staff Editor	40	80	40	10+165	100
	Document specialist	60	125	136	30+325	325
	Technical specialist				150	200
4. List of appendices and open items to be incorporated into Chapter 1	Technical staff Editor	10	30	100	100	
	Document specialist	25	60	200	100	
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	50	20	
	Technical staff Editor	0	10	140	90	
	Document Specialist	0	20	230	75	

Task(s)	Labor Category	Level of Effort FY-08 (hours)	Level of Effort FY-09 (hours)	Level of Effort FY-10 (hours)	Level of Effort FY-11 (hours)	Level of Effort FY-12 (hours)
6. Phase 6 SER input as provided by technical staff incorporated into draft final SER	Technical Staff Editor	0	10	60	20	
	Document Specialist	0	20	170	20	
Task 1 – 6	Project Manager	250	600	180	70+40	36
Task 1 – 6	Administrative Support	620	1355	210	50	12
Meetings			255			
Total: 6395		1245	2990	1516	585+680	673

9.0 PERIOD OF PERFORMANCE

The period of performance is extended until September 30, 2012.

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, 100 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, 40 5 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, 10 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.

It is understood that the scope of the review consists of conference calls with the NRC staff and the applicant to discuss open items in an attempt to obtain additional information or reach resolution.

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," Rev. 4 July 1998
5. 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-references
- H - Technical Specifications and cross-references
- I - Initial Test Program Test cross-references
- J - 10 CFR 20.1406, Minimization of Contamination cross- references
- K - Generic Issues cross-references
- L - Report on Advisory Committee on Reactor Safeguards (ACRS) (supplied by NRC)