

**ORDER FOR SUPPLIES OR SERVICES**

**IMPORTANT: Mark all packages and papers with contract and/or order numbers.**

BPA NO.

1. DATE OF ORDER <b>AUG 14 2009</b>	2. CONTRACT NO. (if any) NRC-42-07-481	6. SHIP TO:	
3. ORDER NO. 0062	MODIFICATION NO.	a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
4. REQUISITION/REFERENCE NO. 42-07-481T062 09748162012		b. STREET ADDRESS Attn: Sally Adams, 301 415 0209	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn:Kala Shankar 301-492-3638 Mail Stop TWB 01-B10M Washington, DC 20555		c. CITY Washington	e. ZIP CODE 20555

7. TO:		f. SHIP VIA	
a. NAME OF CONTRACTOR N J NUMARK ASSOCIATES INC NUMARK ASSOCIATES		8. TYPE OF ORDER	
b. COMPANY NAME		<input type="checkbox"/> a. PURCHASE	<input checked="" type="checkbox"/> b. DELIVERY
c. STREET ADDRESS 1220 19TH ST NW STE 500		REFERENCE YOUR _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON		Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
e. STATE DC	f. ZIP CODE 200362444		

9. ACCOUNTING AND APPROPRIATION DATA 925-15-171-111; Q-4012; 252A; 31X0200 OBLIGATE: \$75,000 DUNS: 788247377	10. REQUISITIONING OFFICE NRO
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11. BUSINESS CLASSIFICATION (Check appropriate box(es))						12. F.O.B. POINT N/A
<input checked="" type="checkbox"/> a. SMALL	<input type="checkbox"/> b. OTHER THAN SMALL	<input type="checkbox"/> c. DISADVANTAGED	<input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED			
<input type="checkbox"/> d. WOMEN-OWNED	<input type="checkbox"/> e. HUBZone	<input type="checkbox"/> f. EMERGING SMALL BUSINESS				

13. PLACE OF		14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	16. DISCOUNT TERMS
a. INSPECTION	b. ACCEPTANCE			

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	Issuance of Task Order 62 under Contract No. NRC-42-07-481  Title: "Technical Assistance in SER Production work for EPR Bell Bend Nuclear Power Plant SCOL"  Period of Performance: 08/17/2009 - 05/16/2011 Estimated Reimbursable Cost:\$301,588 Fixed Fee: \$21,111 Total Cost Plus Fixed Fee: \$322,699  Funding in the amount of \$75,000 is being provided  See continuation page				See CONTINUATION Page	

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT	19. GROSS SHIPPING WEIGHT	20. INVOICE NO.		17(h) TOTAL (Cont. pages)  17(i). GRAND TOTAL
	21. MAIL INVOICE TO:				
	a. NAME U.S. Nuclear Regulatory Commission Payment Team, Mail Stop T-9-H-4				
	b. STREET ADDRESS (or P.O. Box) Attn: (NRC-42-07-481 Task Order 62)				
	c. CITY Washington	d. STATE DC	e. ZIP CODE 20555	\$75,000.00	

22. UNITED STATES OF AMERICA BY (Signature) <i>Kala Shankar</i>	23. NAME (Typed) Kala Shankar
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TITLE: CONTRACTING/ORDERING OFFICER

CONTINUATION PAGE

In accordance with Section G.4, Task Order Procedures, of Contract No. NRC- 42-07-481, this definitizes Task Order No. 62. The effort shall be performed in accordance with the attached Statement of Work.

Task Order No. 62 shall be in effect twenty one months from date of award, with a cost ceiling of \$322,699. The amount of \$301,588 represents the estimated reimbursable costs, and the amount of \$21,111 represents the fixed fee.

The amount obligated by the Government with respect to this task order is \$75,000, of which approximately \$70,093 represents the estimated reimbursable costs, and the amount of \$4,907 represents the fixed fee.

The issuance of this task order does not amend any terms or conditions of the subject contract.

Your contacts during the course of this task order are:

Technical Matter: Sally Adams  
Project Officer  
301-415-0209

Contractual Matters: Kala Shankar  
Contract Specialist  
301-492-3638

Acceptance of Task Order No. 62 should be made by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist at the address identified in Block No. 5 of the OF 347. You should retain the third copy for your records.

ACCEPTANCE: 

NAME

President  
TITLE

8/14/09  
DATE

## TASK ORDER STATEMENT OF WORK

JCN Q-4012	Contractor Numark Associates, Inc.	Task Order No. NRC-42-07-481 (62) <b>revised</b>
Applicant PPL Bell Bend LLC	Design/Site EPR / Bell Bend Nuclear Power Plant	Docket No. 5200039
Title/Description Development of EPR SCOL Template and Technical Assistance in SER Production for Bell Bend Nuclear Power Plant SCOL		
TAC No. RX0628	B&R Number 925-15-171-111	SRP or ESRP Section(s) 1 thru 19
NRC Task Order Project Officer (PO) Sally Adams 301-415-0209 Sally.Adams@nrc.gov		
NRC Technical Monitor (TM) Tarun Roy 301-415-0493 Tarun.Roy@nrc.gov		

### 1.0 BACKGROUND

Subsequent Combined Operating License (SCOL) 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 SCOL applications based on information furnished by the applicants pursuant to 10 CFR 52.79, "Contents of Applications Technical Information." 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, SRP (NUREG-0800) is available for the guidance of 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 designs and sites for nuclear power plants. The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews.

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).

### 2.0 OBJECTIVE

There are two parts to this task order:

(i) First part of the task order is to obtain technical expertise from the contractor to develop templates for the SERs pertinent to the SCOL applications in the EPR Design Center. It is expected that the contractor will start with the Calvert Cliffs SER developed against Task Order number 46. The deliverables from this part will be the draft templates for each of the 19 chapters of the SCOLA.

(ii) Second part of the task order is to obtain contractor's services to integrate the technical input received from the staff technical reviewers into the SER SCOL templates developed under first part (i). The deliverables for this part (ii) will be completed and technically edited, formatted draft Preliminary Safety Evaluation Report (PSER) to be utilized by the NRC staff for documenting the results of the staff review of the Bell Bend SCOL application. The contractor will utilize design details and system description provided by the applicant in the application, guidance

provided in SRP (NUREG 0800) and RG-1.206, and other reference documentation in preparing the deliverables.

### 3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks/Standards	Scheduled Completion *	Deliverables
<p>1. REQUIREMENT: Become familiar with Bell Bend SCOL application.</p> <p>Standard: Written confirmation that familiarization is complete; this task is for familiarity and not for evaluation.</p>	* 5 days after authorization of work.	Written confirmation that assigned personnel have reviewed the applicable documentation.
<p>2. REQUIREMENT: Participate in an orientation/kick-off meeting with the NRC staff to discuss the scope of the work, expectations and contract management. Establish an agreed upon schedule that is consistent and aligned with the NRC's ENTERPRISE PROJECT MANAGEMENT (EPM) program.</p> <p>Standard: Attendance by individuals designated by NRC.</p>	* Two weeks after authorization of work.	N/A
<p>3. REQUIREMENT: Prepare SER Templates for each SCOL SER Chapter utilizing the information provided in the COLA applications and the guidance included in SRP (NUREG-0800), including all Branch Technical Positions (BTPs), RG-1.206 and other reference documentation listed in the SRP for each chapter.</p> <p>Standard: Completed Draft SCOL SER Templates for each chapter will be coordinated with NRC. The final SCOL SER Templates will incorporate any comments, changes and/or modifications proposed by staff.</p>	* Per the direction of the Technical monitor	Draft Templates for SCOL SERs
<p>4. REQUIREMENT: 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 ENTERPRISE PROJECT MANAGEMENT (EPM).</p>	* Four Weeks after award of Task Order.	Project Plan and tentative schedule for Part (i) and (ii) deliverables.
<p>5. REQUIREMENT: Phase 'A' input {e.g., Preliminary Safety Evaluation Report (PSER), request for additional information (RAI's) and supplemental RAI's, technical evaluation and conclusions} incorporated into corresponding template, PSER edited, formatted and revised based on updated SER User Guide.</p>	* Each Chapter PSER shall be completed within two weeks after final Chapter input by NRC provided to contractor.	Chapter SER using templates and PSER input each SCOL chapter.
<p>6. REQUIREMENT: Appendices (See Attachment 2) list of open items by Chapter (to be incorporated into SER Chapter1)</p>	* Two weeks prior to completion of last SCOL SER Chapter with open items.	Included in Item 5 above (phase A)
<p>7. REQUIREMENT: Phase 'B' SER input (e.g. responses to open items and confirmatory items) incorporated into corresponding draft advanced final SER.</p>	* Two weeks prior to completion of last SCOL SER Chapter with open items.	Draft Advanced Final SER

Tasks/Standards	Scheduled Completion *	Deliverables
8. REQUIREMENT: Phase 'D' SER 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 instructions 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.

As a minimum, qualified personnel used to perform technical evaluations shall 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 assign a contractor project manager (PM) to oversee the effort and ensure the timely submittal of quality deliverables. The PM will also ensure 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. Each personnel assigned to this contract is subject to the NRC technical monitor's (TM's) approval. This includes any proposed changes to personnel during the life of the task order.

#### **5.0 REPORTING REQUIREMENTS**

##### **Task Order Progress Report**

The contractor shall submit 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 for. The specific requirement for Task 3 deliverables should be addressed as number of chapters completed. 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 NRC/NRO/DNRL Projects licensing assistant (LA) who will manage 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.

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 not the applicant, to discuss open items in an attempt to obtain additional information or reach resolution.

At the completion of Task 5 (phase 'A'), 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), submit updated appendices (see Attachment 2) that contain a summary of the review results and the updated report completed under this task.

At the completion of Task 7 (phase 'B'), 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 8 (phase 'D'), 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 Safety Evaluation Reports (SERs). The draft SERs will serve as input to the NRC staff's SERs which will document the NRC's technical, safety, and legal basis for approving the COL application. The draft SERs 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 SERs, 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 draft SERs format is described in the SER Template User Guide Revision 3, 4/24/2009 located in Share Point under General SER Templates.

The contractor is responsible for structuring the draft SERs format to follow Federal and agency standards for publications. The current agency word processing standard is Microsoft Word. 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.

In all correspondence, include identifying information: JCN No.: Q-4012; Technical Assignment Control No. (TAC): RX0628; Task Order No. 062; the Licensee: PPL Bell Bend LLC; and the Site: Bell Bend Nuclear Power Plant.

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, 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 shall 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. 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. Copy of SCOL sections and relevant Appendices from the SCOL application on CD-ROM

#### **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 FY09 hours	Level of Effort FY10 hours	Level of Effort FY11 hours
1. Familiarity with Bell Bend Project	Project Manager	10	0	0
2. Participate in kick off meeting, scope of work	Project Manager	30	0	0
3. SCOL SER chapter templates by chapters (total of 19 chapters)	Technical Staff Editor	40	0	0
	Document Specialist	245	0	0
4. Project Plan, Biweekly status reports and administrative support	Technical Staff Editor	70	50	0
	Document Specialist	20	10	0
5. Phase 'A' SCOL PSER	Technical Staff Editor	190	110	0
	Document Specialist	400	250	0
6. Appendices	Technical Staff Editor	20	20	0
	Document Specialist	30	30	0
7. Phase 'B' draft advanced final SER	Technical Staff Editor	125	75	0
	Document Specialist	190	120	0
8 Phase 'D' draft final SER	Technical Staff Editor	10	10	10
	Document Specialist	40	40	30
Task 1-8	Project Manager	60	45	20
Task 1-8	Admin. Support	120	180	5



Task(s)	Labor Category	Level of Effort	Level of Effort	Level of Effort
		FY09 hours	FY10 hours	FY11 hours
Total =2605		1600	940	65

**Note: Refer Table 2, Page 6 of contractor's technical proposal for the agreed to level of effort.**

## **9.0 PERIOD OF PERFORMANCE**

The projected period of performance is 21 Months from date of task order award.

## **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:**

Explanations and understandings of 4 Phase SCOLA Safety Review Process applicable to all SCOLA's:

The 4-phase approach is developed by modifying or eliminating two steps in the current 6-phase approach, a portion of Phase 2 (issuance of a Safety Evaluation Report (SER) with Open Items (OI) and Phase 3 (meeting with the Advisory Committee on Reactor Safeguards (ACRS) on the SER w/OI). The phases of the 4-Phase current approach will be as follows:

- Phase A – Preliminary Safety Evaluation Report (PSER), Requests for Additional Information (RAIs) and Supplemental RAIs
- Phase B – Advanced Final SER without Open Items
- Phase C – ACRS Meeting on Advanced Final SER
- Phase D – Final SER

The level of effort for Task 3 (SCOL SER chapter templates) is based on the 19 chapters and it will take, on the average, 15 hours to integrate, format, edit each chapter.

The level of effort for Task 5 (Phase 'A') is based on the 19 chapters and it will take, on the average, 80 hours to develop necessary Phase 'A' SCOL integration of each chapter.

The level of effort for Task 7 (Phase 'B') is based on the assumption that this task will be approximately 1/3 of the effort of Task 4 as the scope is limited to additional content based on responses to open items and other supplemental information.

The level of effort for Task 8 (Phase 'D') is based on the 19 chapters and it will take, on the average, 5 hours to develop necessary Phase 'D' 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"