

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

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

BPAND

1. DATE OF ORDER MAR 01 2013		2. CONTRACT NO. (if any) NRC-HQ-12-C-42-0107		8. SHIP TO:	
3. ORDER NO. T005		4. REQUISITION/REFERENCE NO. RPPA: NRO-13-057 FAIMIS: 131162		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Mail Stop: TWB-01-B10M Washington, DC 20555				b. STREET ADDRESS	
7. TO:		c. CITY Washington		d. STATE DC	e. ZIP CODE 20555
a. NAME OF CONTRACTOR NUMARK ASSOCIATES, INC		DUNS: 788247377 DUNS+4:		f. SHIP VIA	
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 1220 19TH ST NW STE 500				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY 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. 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.	
d. CITY WASHINGTON	e. STATE DC	f. ZIP CODE 200362444			
9. ACCOUNTING AND APPROPRIATION DATA B & R: 2013-25-17-4-107; Job Code: Q4012; ROC: 252A APPN: 31X0200; DUNS: 788247377; FAIMIS: 131162; Obligated Amount: \$5,000.00		10. REQUISITIONING OFFICE NRO			
11. BUSINESS CLASSIFICATION (Check appropriate boxes) <input checked="" type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT N/A	
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
a. INSPECTION	b. ACCEPTANCE			16. DISCOUNT TERMS N/A	

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 No. 5 under contract No. NRC-HQ-12-C-42-0107 Title: "Review of Calvert Cliffs RCOL in the Areas Relating to Geotechnical Engineering (SRP 2.5.4 and 2.5.5)" Period of Performance: 03/01/2013 through 09/30/2014 Estimated Reimbursable Cost: \$41,321.00 Fixed Fee: \$2,551.00 Total Cost Plus Fixed Fee: \$43,872.00 Funding in the amount of \$5,000.00 is being provided Pearllette Merriweather is the Contracting Officer on this Task Order See Continuation Pages						
18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)	
21. MAIL INVOICE TO:							
a. NAME Department of Interior / NBC NRCPayments_NBCDenver@NBC.gov b. STREET ADDRESS (or P.O. Box) Attn: Fiscal Services Branch - D2770 7301 W. Mansfield Avenue c. CITY Denver d. STATE CO e. ZIP CODE 80235-2230 PHONE: FAX:							
22. UNITED STATES OF AMERICA BY (Signature) 						23. NAME (Typed) Sheila Bumpass Contracting Officer TITLE: CONTRACTING/ORDERING OFFICER	17(i) GRAND TOTAL \$43,872.00

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION NOT USABLE

Updated June 10, 2008 (REV. 2/2012)
PRESCRIBED BY GSA/FAR 48 CFR 53.213(f)

SUNSI REVIEW COMPLETE

MAR 05 2013

ADM002

TEMPLATE - ADM001

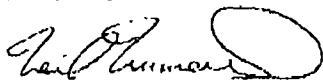
In accordance with contract NRC-HQ-12-C-42-0107, this definitizes Task Order No. 05. The effort shall be performed in accordance with the attached Statement of Work.

Task Order No. 5 shall be in effect for nineteen months from the date of award, with an order ceiling of \$43,872.00. The amount of \$41,321.00 represents the estimated reimbursable cost and the amount of \$2,551.00 represents the fixed fee.

The amount currently obligated by the Government with respect to this task order is \$5,000.00

Acceptance of task Order No. 5 should be made by having an official, authorized to bind your organization, execute three copies of this document in the space provide 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

Neil J. Numark

TITLE

President

DATE

3/1/13

TASK ORDER STATEMENT OF WORK

JCN Q-4012	Contractor Numark Associates, Inc.	Task Order No. 5
Applicant Unistar	Design/Site US EPR / Calvert Cliffs	Docket No. 5200016
Title/Description Review of Calvert Cliffs RCOL in the Areas Relating to Geotechnical Engineering (SRP 2.5.4 and 2.5.5)		
TAC No. RX0670	B&R Number 2013-25-17-4-107	SRP or ESRP Section(s) 2.5.4 and 2.5.5
NRC Task Order Project Officer (PO)		
Christine Briggs	301-415-2713	Christine.Briggs@nrc.gov
NRC Contracting Officer Representative (COR)		
Weijun Wang	301-415-1175	Weijun.Wang@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 prepared 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 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.

An Environmental Safety Review Plan (NUREG-1555) is prepared 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).

As part of **Task Order 64 under JCN Q4012**, Numark provided technical assistance related to the Site Safety review of the Calvert Cliffs COL application sections 2.5.4 and 2.5.5, which included participating in development of Requests for Additional Information (RAIs), reviewing responses to RAIs, participating in site audits, performing independent confirmatory analysis and preparing draft technical evaluation reports (TER). These accomplishments relate to subtasks 1 through 5 in Task Order 64 of JCN Q4012. Numark will continue the technical

assistance under this new agreement to complete the remainder of subtasks 6 and 7. This includes: review additional information from supplemental RALs, review additional material from other sources, finalize the TER, and support Advisory Committee on Reactor Safety (ACRS) and Atomic Safety Licensing Board (ASLB) meetings as required.

2.0 OBJECTIVE

The objective of this task order is to obtain technical expertise from the contractor to assist the NRC staff in determining whether the subject COL application meets appropriate regulatory requirements. Specifically, technical assistance is required to assist the staff in determining the adequacy of the geotechnical site characterizations of the Calvert Cliffs COL application sections 2.5.4 and 2.5.5.

3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks/Standards	Scheduled Completion	Deliverables
6. REQUIREMENT: Review the applicant's response to the open items identified as a result of the design audit (Tasks 4 & 5). Identify any unresolved issues and prepare Technical Letter Report. STANDARD: Complete Technical Letter Report	*Three weeks after receipt of responses to the open items	Technical Letter Report
7. REQUIREMENT: As needed and requested by the staff, provide technical support to the staff during related ACRS meetings and hearing proceedings. STANDARD: Ensure presentation materials are reviewed and approved by NRC staff.	TBD	Prepare Presentation Materials. Attend Meetings, if required

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

The Contracting Officer Representative 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:

- Senior Geotechnical Engineer/Consultant with broad and in depth knowledge of field and laboratory methods for identifying static and dynamic engineering properties of soil and rock, analyses of response of soil or rock to static and dynamic loadings, liquefaction potential, static and dynamic bearing capacity and settlement of soils and foundations, seismic/dynamic lateral earth pressure on foundation and wall, slope stability, and subsurface material improvement techniques.

One Senior Geotechnical Engineer/Consultant is needed for this task order.

The contractor shall provide a contractor project manager (PM) to oversee the effort, 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 Contracting Officer Representative's (COR'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 bi-weekly 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. The report shall be sent via e-mail to the NRC COR, Task Order Project Officer (PO) and CO.

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 COR 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 COR, and then deliver the final version of the deliverable. When mutually agreed upon between the contractor and the COR, 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 or other word processing software approved by the COR. For each deliverable, the contractor shall provide one hard copy and electronic copy to both the PM and the COR. 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), RX0670 Task Order No.: 5 ; the licensee: UniStar; and, the site: Calvert Cliffs

1. At the completion of Task 6, submit a TLR that contains a summary of the findings from the responses and resolutions of the open items, and determine if there is any unresolved open item.

6.0 MEETINGS AND TRAVEL

Two one-person, two-day meetings, if needed, for hearing and ACRS meeting.

7.0 NRC FURNISHED MATERIAL

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

- a. CD-ROM containing Calvert Cliffs COLA Sections and the relevant Appendices from the application.
- b. CD-ROM containing the Final Safety Evaluation Report of the DCD.

8.0 LEVEL OF EFFORT

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

Task(s)	Labor Category	Level of Effort (hours)	
		FY-13	FY-14
6	Sr. Geotechnical Engineer/Consultant	50	
7	Sr. Geotechnical Engineer/Consultant		60
Task 1-7	Project Manager	23	8
Task 1-7	Admin Support	12	8
Total		85	76

9.0 PERIOD OF PERFORMANCE

The period of performance is from March 1, 2013 to September 30, 2014.

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 6 is based on the need to resolve 5 open items and it will take, on the average, 4 hours to review and resolve each open item, and prepare a TLR.

The level of effort in Task 7 is based on requiring two trips to NRC headquarters.

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 with the NRC staff and the applicant, to discuss open items in an attempt to obtain additional information or reach resolution.

The primary deliverable, or output of this regulatory review, shall be the Technical Letter Report (TLR). The TLR contains a list of "Requests for Additional Information (RAIs)" and a summary of any confirmatory analysis performed.

Attachments:

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

Attachment 1
Outline, format, and sample for the TER (draft SER input)

X.Y.Z Title of Section

X.Y.Z.1 Regulatory Criteria

Develop an outline that follows the format and topics presented in the AREAS OF REVIEW section of the appropriate SRP section. This information will correspond to the SRP sections that are the subject of this Task Order. For each unique SRP review area contained in the TER, the contractor should specify the acceptance criteria that were used for its review. Summarize the applicable regulations and other regulatory references, including regulatory guides, generic letters, or NRC staff positions, that are relevant to this topic.

Technical reviewers are encouraged to use the descriptions of acceptance criteria from previously issued Safety Evaluation Reports for completed design certifications (e.g., NUREG-1793 for the AP1000 Final Safety Evaluation Report) when applicable.

X.Y.Z.2 Summary of Technical Information

Describe the key technical points that were made in the application. It is not necessary to restate the application verbatim or to address all the details in the application.

X.Y.Z.3 Technical Evaluation

Document the contractor's evaluation of the application against the relevant regulatory criteria. The evaluation should support the contractor's conclusions as to whether the regulations are met. State what the contractor did to evaluate the applicant's submittal. The contractor's evaluation may include verification that the applicant followed applicable regulatory guidance, performance of independent calculations, and validation that the appropriate assumptions were made. The contractor may state that certain information provided by the applicant was not considered essential to the contractor's review and was not reviewed by the contractor. While the contractor may summarize the information offered by the applicant in support of its application, the contractor should clearly articulate the bases for its conclusions.

Contractor should provide a clear and concise description of any request for additional information (RAIs). The description should include a justification of the requested information that the requested information is not provided in the application and is absolutely needed to determine or confirm whether the relevant regulatory requirements (articulate specific requirements) have been met. The contractor should discuss its technical evaluation of the licensee's response to the RAIs and determine whether it is acceptable. The contractor should clearly articulate the bases for its acceptance or rejection. If the RAI response is not acceptable, it will be classified as an 'open item'. All open items will be resolved in Phase 3.

X.Y.Z.4 Conclusions

Summarize the contractor's conclusions regarding the application, including words such as the following. As set forth above in Sections X.Y.Z.2 and X.Y.Z.3 of this report, [provide specific bases for conclusions that follow]. Accordingly, the staff concludes that the application meets [or, if applicable, does not meet] the relevant requirements of 10 CFR Part XX and is [or, if applicable, is not] acceptable.

X.Y.Z.5 References