

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
			1 14
2. AMENDMENT/MODIFICATION NO. M0002	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. NRO-16-0026	5. PROJECT NO. (If applicable) EWC
6. ISSUED BY US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP 3WFN-05-C64MP WASHINGTON, DC 20555-0001	CODE NRCHQ	7. ADMINISTERED BY (If other than Item 6)	CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ENERGY RESEARCH INC 6189 EXECUTIVE BLVD ROCKVILLE MD 208523901		(x) 9A. AMENDMENT OF SOLICITATION NO.	
		9B. DATED (SEE ITEM 11)	
		x 10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-HQ-25-14-E-0002 NRC-HQ-25-14-T-0002	
		10B. DATED (SEE ITEM 13) 09/30/2014	
CODE 621211259	FACILITY CODE		

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 ACKNOWLEDGEMENT 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) Net Increase: \$90,000.00
Accounting Info : 2016-X0200-FEEBASED-25-25D006-17-4-118-3002-251A

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

CHECK ONE 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. 52.243-2 Changes Cost Reimbursement
	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).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: This Supplemental Agreement is entered into pursuant to authority of: Mutual Agreement of the Parties
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ 0 _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

NRC-HQ-25-14-E-0002/NRC-HQ-25-14-T-0002 Mod. 2

The purpose of this modification is to: (1) increase the total estimated cost by \$148,999.64 from \$181,756.77 to \$330,756.41 to allow for additional work within scope; and (2) provide incremental funding in the amount of \$90,000.00 thereby increasing the total obligated amount from \$181,756.77 to \$271,756.77, and (3) extend the period of performance to December 31, 2017.

See additional pages for specific changes regarding this modification.

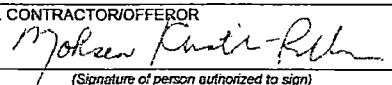

Period of Performance: 9/30/2014 to 12/31/2017 (changed)

Total Task Order Ceiling: \$330,756.41 (changed)

Total Obligated Amount: \$271,756.77 (changed)

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Mohsen Khatib-Rahbar, President	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SHARLENE M. MCCUBBIN
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 05/31/16
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 5/31/2016

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

TEMPLATE - ADMIN

SUNSI REVIEW COMPLETE

JUN - 7 2016

ADM002

NAME OF OFFEROR OR CONTRACTOR
ENERGY RESEARCH INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>All other terms and conditions remain unchanged. LIST OF CHANGES: (NRC purposes only) Reason for Modification : Supplemental Agreement for work within scope Period Of Performance End Date changed from 2016-09-29 00:00:00 to 2017-12-31 00:00:00 Total Amount for this Modification: \$148,999.64 New Total Amount for this Version: \$148,999.64 New Total Amount for this Award: \$330,756.41 Obligated Amount for this Modification: \$90,000.00 New Total Obligated Amount for this Award: \$271,756.77 Incremental Funded Amount changed: from \$181,756.77 to \$271,756.77</p>				

Specific Changes are as follows:

1. Delete Section B.1 "PRICE/COST SCHEDULE" in its entirety and replace with the following:

"B.1 PRICE/COST SCHEDULE

CLIN	DESCRIPTION OF SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	TOTAL COST PLUS FIXED FEE
0001	Contractor to provide Technical Assistance in accordance with section C: DESCRIPTION/ SPECIFICATIONS/ STATEMENT OF WORK	[REDACTED]	[REDACTED]	[REDACTED]
	Total	[REDACTED]	[REDACTED]	\$330,756.41"

2. Delete Section NRCB044 "CONSIDERATION AND OBLIGATION—INDEFINITE-QUANTITY CONTRACT" in its entirety and replace with the following:

"(a) The estimated total quantity of this contract for the products/services under this contract is \$330,756.41 of which the sum of [REDACTED] represents the estimated reimbursable costs, and of which \$ [REDACTED] represents fixed fee.

(b) The Contracting Officer will obligate funds on each task order issued.

(c) The amount currently obligated by the Government with respect to this contract is [REDACTED] of which the sum of [REDACTED] represents the estimated reimbursable costs, and of which [REDACTED] represents the fixed-fee.

(d) This is an incrementally-funded contract and FAR 52.232-22 – "Limitation of Funds" applies.

(e) The Contractor shall comply with the provisions of FAR 52.232-20 - Limitation of Cost for fully-funded task orders and FAR 52.232-22 - Limitation of Funds for incrementally-funded task orders, issued hereunder."

3. Delete **SECTION C “DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK FOR TASK ORDER 02”** in its entirety and replace with the following:

Technical Review of KHNP APR1400 Large Break LOCA Methodology Topical Report.
This Statement of Work for this Task Order falls within the Small Business Set-Aside part of NRC IDIQ Contract entitled Technical Assistance in Support of Agency Environmental and Reactor Programs, paragraph 3.7, APR-1400 DESIGN CENTER.

1. **PROJECT TITLE**

Technical Review of KHNP APR1400 Large Break LOCA Realistic Evaluation Methodology Topical Report

2. **BACKGROUND**

In January 2013, the Applicant, Korea Hydro and Nuclear Power Co., Ltd. (KHNP) submitted topical report APR1400-F-A-TR-12004-P, Revision 0, “Realistic Evaluation Methodology for Large Break LOCA of the APR1400,” [LBLOCA REM] for review by the Nuclear Regulatory Commission, Office of New Reactors (NRO). The topical report is part of the pre-application package for the APR1400 Design Certification application. Although the Design Certification application package has not been accepted for review by the NRC, the topical report was accepted for review in March 2013. Resubmittal of the Design Certification application is expected in late 2014.

The APR1400 LBLOCA REM follows the concept of “Code Scalability, Applicability, and Uncertainty (CSAU)” described in NUREG/CR-5249, “Quantifying Reactor Safety Margins,” and the guidelines of Regulatory Guide (RG) 1.157, “Best-Estimate Calculations of Emergency Core Cooling System Performance.” The APR1400 LBLOCA REM uses the RELAP5/MOD3.3/K and CONTEMPT4/MOD5 codes for the calculation of the reactor coolant system thermal-hydraulics and containment backpressure, respectively, for the large-break LOCA transient scenarios. Statistical techniques used to quantify the overall uncertainty of the calculation are different from those of the CSAU methodology in order to accommodate the increased number of uncertainty parameters, but still conform to the requirement of RG 1.157.

The LBLOCA REM topical report provides the detailed methodology to be used in the Design Certification Document (DCD), Chapter 15, Section 15.6.5, “Loss-of-Coolant Accidents Resulting From Spectrum of Postulated Piping Breaks Within the Reactor Coolant Pressure Boundary”. Detailed review guidance is provided in Section 15.6.5 of NUREG-0800, “Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants: LWR Edition - Transient and Accident Analysis” (SRP 15.6.5). The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews. Guidance for the LOCA Evaluation Model and analysis methods is provided in SRP 15.0.2, “Review of Transient and Accident Analysis Methods” and in Regulatory Guide 1.203, “Transient and Accident Analysis Methods.”

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Independent of the full scope APR1400 DCD review, the staff of NRO's Reactor Systems, Nuclear Performance & Code Review Branch (SRSB) will conduct a review of the LBLOCA REM topical report to determine its acceptability to be used for the APR1400 large-break LOCA analysis. Documentation of this review will be provided in a Final Safety Evaluation Report (FSER).

The FSER must provide sufficient information to adequately explain the NRC staff's rationale for determining that there is reasonable assurance that public health and safety is protected. The FSER 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 FSER format is described in Attachment 1 to this task order statement of work (SOW).

The objective of this task order is to obtain technical expertise from the contractor to assist the staff in determining the adequacy of the KHNP APR1400 Large Break LOCA Realistic Evaluation Model topical report APR1400-F-A-TR-12004-P, Revision 0, for use in the APR1400 Design Certification application. The review will also include Technical Report APR1400-F-C-NR-12001-P, "Thermal Design Methodology", which was submitted in support of the topical report.

The objective of this modification is to increase the level of effort to account for the review of the large amount of documentation provided by the applicant in the electronic reading room to resolve issues identified in the initial review and January audit. The applicant has committed to revise the topical report, so the additional scope includes review of this revision. The number of issues identified exceeded the assumed number used to develop the original cost estimate.

3. SCOPE OF WORK

The Contractor must provide all resources necessary to accomplish the tasks and deliverables described in this statement of work (SOW).

The Contractor must 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: a) expertise and experience in analysis of nuclear reactor thermal-hydraulics; b) expertise in use of the RELAP5 computer code; c) expertise and familiarity with NRC regulations pertaining to analysis of nuclear reactor thermal-hydraulics, specifically LOCA analyses under the standard review plan (SRP) Sections 4.4 and Sections 15.0.2 and 15.6.5; d) familiarity with requests for additional information (RAI) development; and e) experience and familiarity with development of technical evaluation report (TER) supporting positions developed during the review.

NOTE: Work on this task order will involve the handling of proprietary information.

The contractor shall provide a contract 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.

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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.

The contractor shall provide at a minimum, monthly letter status reports (MLSRs) to the NRC Technical Monitor and the Contracting Officer. Copies must also be sent to the Division of Contracts at ContractsPOT.Resource@nrc.gov.

4. SPECIFIC TASKS

Specific tasks are summarized in the table below, along with the expected deliverables and approximate timetable:

Task Number	Task Description	Milestone/Deliverable	Due Date
1a	Become familiar with KHNP's LBLOCA REM topical report APR1400-F-A-TR-12004-P and DCD Section 15.6.5 LBLOCA analysis.	An e-mail to the COR detailing the review plan and the completion of the familiarization with the material.	One week after Task Order award. COMPLETE.
1b	Become familiar with KHNP's Technical Report APR1400-F-C-NR-12001-P, Revision 0, "Thermal Design Methodology".	An e-mail to the COR detailing the review plan and the completion of the familiarization with the material.	2 days after completion of Task 1a COMPLETE.
2	Participate in an orientation/kick-off meeting with the NRC staff personnel to discuss potential issues identified during familiarization tasks 1a and 1b and information needed from NRC staff or the Applicant.	N/A	TBD. Meeting will be held by teleconference at a date/time scheduled by the COR, as soon as possible after completion of Tasks 1a and 1b. COMPLETE.

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3a	<p>Review LBLOCA REM Topical Report APR1400-F-A-TR-12004-P.</p> <p>Determine if the methods and approach proposed by the Applicant meet the applicable regulations and review guidance. Evaluate the applicant's realistic evaluation methodology for the LBLOCA analysis using the APR1400 RELAP5 model (to be provided upon authorization to proceed with the contract Task Order). This task requires thorough review of the KHNP RELAP5/MOD3.3/K code, assessment of the code against separate and integral effects tests, coupling of the RELAP5/MOD3.3/K and CONTEMPT4/MOD5, implementation of the CSAU steps, and statistical method of uncertainty calculation.</p> <p>Identify any technical issues and the need for any additional or clarifying information (requests for additional information, RAIs).</p>	<p>Draft RAIs by e-mail to NRC COR</p> <p>Provide bi-weekly status reports to the NRC COR (by e-mail or phone call)</p>	<p>Initial RAIs provided 8 weeks after authorization to proceed</p> <p>COMPLETE.</p> <p>Bi-weekly status update</p>
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3b	<p>Review KHNP Thermal Design Methodology Technical Report APR1400-F-C-NR-12001-P. This report describes the overall process to be used to perform core thermal analysis, the critical heat flux correlation that will be used for APR1400 core design and safety analyses, and the computer codes to be used.</p> <p>NOTE: This task <u>does not require</u> acceptance/approval of the CHF correlation or of the computer codes. These reviews are being performed by the NRC staff.</p> <p>Identify any technical issues related to the core thermal design process and the need for any additional or clarifying information (requests for additional information, RAIs).</p>	Draft RAIs by e-mail to NRC COR	Initial RAIs provided 10 weeks after authorization to proceed COMPLETE.
4	Participate in an audit of the Applicant's calculations used in preparation of RELAP5 model inputs at the Applicant's Vienna, Virginia office. Provide a summary report which identifies documents audited and describes any open issues which will require the Applicant to submit additional information.	Audit summary report provided to the NRC Technical Monitor which includes a list of documents reviewed and identifies open issues.	Audit tentatively planned for October of 2014. A maximum of 3 days is expected. Some documents may be made available in an electronic reading room. COMPLETED (Jan, 12 thru Jan. 15, 2016) Summary report should be completed one week after audit closure. COMPLETED.
5	Upon receipt of the Applicant's responses to RAIs developed under Tasks 3a, 3b, and 4, determine if the responses are complete and sufficient for the NRC to make a safety determination, or if further information is needed (supplemental RAIs).	If the Contractor or the COR determines that the Applicant's responses are insufficient and that supplemental information is needed, provide draft	Two weeks after receipt of responses (if needed) COMPLETED March 17, 2016.

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		supplemental RAIs by e-mail to the NRC COR.	
6	Based on the review of the topical report and technical report and the supplemental information provided in the responses to RAIs, prepare a draft Technical Evaluation Report (TER) using the format provided in the enclosed TER template.	Draft TER by e-mail to the NRC COR	4 weeks after completion of Task 5 Rev. 3 of TER completed 3/4/2016 TER update is needed to reflect final audit issue response review and resulting audit RAIs for all issues not satisfactorily resolved by KHNP. These RAIs can be considered Open Items in the TER. This TER update should document all issues identified during the Topical Report Revision 0 review and their resolution, except those identified as Open Items.
7	Review responses to RAIs issued in Task 6; determine if responses are satisfactory or if supplemental information is needed.	Draft supplemental RAIs (if needed) by e-mail to NRC COR	2 weeks after responses received from KHNP and provided by the COR.
8	Review LBLOCA REM Topical Report APR1400-F-A-TR-12004-P, Revision 1. Determine if all changes KHNP committed to in resolution of audit issues or RAIs have been properly incorporated in the revision. Confirm that the changes made do not introduce new issues.	E-mail to COR summarizing the Revision 1 review. If new issues are identified or audit issues are not satisfactorily resolved, provide new draft RAIs	3 weeks after receipt of Revision 1 of the topical report

9	Update TER revision prepared under Task 6 to incorporate discussion on review of Revision 1 of the Topical Report and supplemental RAI responses.	Draft TER revision by e-mail to the NRC COR	2 weeks after RAI responses received
10 (optional task)	<p>IF RAI responses provided as a result of Task 8 necessitate further revision to the topical report (now Rev. 2), confirm that remaining issues identified in Task 8 are appropriately resolved in Rev. 2.</p> <p>Update the TER revision prepared in Task 9 to reflect the conclusions of the Rev, 2 review.</p>	Only if Rev. 2 of the topical report is needed, provide e-mail to the COR that conclude that remaining issues are resolved.	If Rev, 2 is submitted, 2 weeks after receipt of revision
11	Upon receipt of NRC staff comments on the draft TER, develop and issue a final TER which incorporates the staff comments. If supplemental RAIs are generated in Task 5, incorporate resolution/closure discussion based on the Applicant's responses.	Final TER and Cover Transmittal Letter provided to the NRC. Electronic files shall be submitted in both Microsoft WORD and ADOBE Acrobat format.	Two weeks after receipt of NRC comments on the draft TER prepared under Task 9 or 10 (if a Revision 2 of the topical report is needed).
12a	Develop draft Advisory Committee on Reactor Safeguards (ACRS) presentation slides which summarize the TER review.	Slides provided to the NRC COR in Microsoft PowerPoint format.	3 weeks prior to ACRS meeting (TBD, but likely calendar year 2017)

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12b	Upon receipt of NRC staff comments, prepare final ACRS presentation slides.	Slides provided to the NRC COR in Microsoft PowerPoint format.	3 days after receipt of NRC comments
13	Provide technical support to the staff during related ACRS meeting. This may include addressing ACRS member questions during the meeting and any follow-up letter (if needed).	(If needed) an e-mail to the NRC COR providing information required to address ACRS Member question(s).	TBD, but likely calendar year 2017

5. APPLICABLE DOCUMENTS AND STANDARDS

Key regulatory requirements are specified in Title 10 of the Code of Federal Regulations, Part 50 – “Domestic Licensing of Production and Utilization Facilities”. Detailed review guidance for the review is provided in Section 15.6.5 of NUREG-0800, “Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants: LWR Edition - Transient and Accident Analysis” (SRP 15.6.5). The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews. Guidance for the LOCA Evaluation Model and analysis methods is provided in SRP 15.0.2, “Review of Transient and Accident Analysis Methods” and in Regulatory Guide 1.203, “Transient and Accident Analysis Methods.”

The above requirements and review guidance are available on the U. S. Nuclear Regulatory Commission’s public website at www.nrc.gov.

DELIVERABLES AND DELIVERY SCHEDULE/REPORTING REQUIREMENTS

All items to be delivered or milestones to be achieved are listed in Section 4. Except as noted for Tasks 7 and 8, deliverables may be provided by e-mail to the COR. For Task 7, the deliverable must be provided in Microsoft WORD and Adobe Acrobat format. Presentation slides for Task 8 must be provided in Microsoft PowerPoint format.

Monthly Letter Status Reports must include the information discussed in the base contract.

6. REQUIRED LABOR CATEGORIES/ ESTIMATED LEVEL OF EFFORT(Except for Information Technology Services)

Labor categories/Level of effort table

Labor Category	Minimum Qualification Requirement	Estimated Labor Hours	Revision 1 Labor Hours
Project Manager	Note 1	114	150
Subject Matter Expert	Note 1	240	0
Senior Technical Reviewer	Note 1	780	380
Technical Reviewer	Contractor's discretion	260	380
Administrative Support	Contractor's discretion	120	90
Total		1514	1000

Note 1: All key technical staff, including the project manager, must have the following technical qualifications:

- Extensive expertise in use of RELAP5/MOD3.3 code to perform realistic PWR LOCA and AOO analyses;
- Extensive knowledge of RELAP5/MOD3.3 code internal numerical schemes and physical models;
- Extensive expertise in the realistic evaluation methodology and the concept of "Code Scalability, Applicability, and Uncertainty (CSAU)."
- Extensive regulatory analysis and review experience with SRP Chapter 15 and associated PWR safety systems.
- Extensive expertise in use of the CONTEMPT4/MOD5 code or comparable containment analysis codes.
- Past experience in maintaining RELAP5/MOD3 code for U.S NRC or at least 20 years of industry experience using RELAP5 series of codes to evaluate operating PWR and BWR ECCS performance.
- Past experience performing LOCA topical report reviews for new or operating reactor designs for NRC or experience in responding to NRC requests for additional information (RAIs) regarding vendor LOCA topical reports or technical reports.

**7. GOVERNMENT-FURNISHED PROPERTY
 N/A.**

8. PERIOD OF PERFORMANCE

The estimated period of performance for this work is from October 1, 2014 through December 31, 2017.

9. PLACE OF PERFORMANCE

All work may be performed at the contractor's site, with the exception of Task 4 (audit of the Applicant's calculations), which must be performed at the Applicant's U. S. office in Vienna, Virginia, and Task 13 (Technical support to the NRC staff during ACRS meeting), which will be held at NRC's Rockville, Maryland Headquarters.

10. SPECIAL CONSIDERATIONS

TRAVEL/MEETINGS

Task 4: One, 2-person, 3-day meeting at the Applicant's Vienna, Virginia office
(COMPLETE)

Task 13: One, 1-person, 1-day meeting at the NRC's Rockville, Maryland headquarters

All travel requires prior written approval from the COR.

SECURITY

These documents contain proprietary information and must be safeguarded against unauthorized disclosure. After completion of work, the documents shall either be destroyed or returned to NRC. If they are destroyed, please confirm this in an e mail to the COR with a copy to the CO and include the date and manner in which the documents were destroyed.

KEY PERSONNEL

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 COR's. This includes any proposed changes to key personnel during the life of the task order. The key personnel designated for this task order are listed in Section H-Special Contract Requirements 2052.215-70 Key Personnel. (Jam 1993).

CONFLICT OF INTEREST

The contractor must disclose any potential organizational conflict of interest (including by subcontractors), considering current work, planned work and past work for non-NRC entities, (i) in the same technical area, or (ii) on the same or similar matter, as the NRC project scope of work. Non-NRC entities include, but are not limited to, NRC licensees, vendors, industry groups or research institutes that represent or are substantially comprised of nuclear utilities. In addition, disclosures shall also be provided for any concurrent and contemplated work for KHNP or its contractors. Each disclosure for NRC review shall include a copy of an official scope of work/purchase order, the dollar value of the work, and the period of performance. It is understood that NRC shall make all determinations concerning OCOI.

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11.0 NRC FURNISHED MATERIAL

The following NRC furnished materials will be provided to the contractor under Section J, below:

12.0 OTHER APPLICABLE INFORMATION

a. License Fee Recovery

The work under this task order is license fee recoverable.

4. Delete NRCF030A PERIOD OF PERFORMANCE ALTERNATE I and replace as follows:

NRCF030A PERIOD OF PERFORMANCE ALTERNATE I

This order shall commence on September 30, 2014 and will expire on December 31, 2017. (See FAR 52.216-18-Ordering).

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED