

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. M0003	3. EFFECTIVE DATE 02/20/2015	4. REQUISITION/PURCHASE REQ. NO. NRR-15-0112	5. PROJECT NO. (If applicable)
6. ISSUED BY US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP TWFN-5E03 ATTN HUGO ALCANTARA 301-415-0069 WASHINGTON DC 20555-0001	CODE NRCHQ	7. ADMINISTERED BY (If other than Item 6) US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP TWFN-5E03 WASHINGTON DC 20555-0001	CODE NRCHQ
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) S W R I 6220 CULEBRA RD SAN ANTONIO TX 782385166		(x) 9A. AMENDMENT OF SOLICITATION NO.	
CODE 007936842 FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x 10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-HQ-11-C-03-0047 NRC-HQ-20-14-T-0020	
		10B. DATED (SEE ITEM 13) 11/20/2013	

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: \$30,000.00
2015-X0200-FEEBASED-20-20D007-11-4-149-1034-252A

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

CHECK ONE	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).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Mutual Agreement
X	D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22 - Limitation of Funds

E. IMPORTANT: Contractor is not, is required to sign this document and return 1 copies to the issuing office.

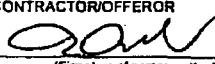

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to (1) revise support by removing Task 6 and adding Task 7, (2) reallocate support and funding from Task 6 to Tasks 7, (3) incorporate the revised Statement of Work, and (4) provide incremental funding in the amount of \$30,000.00. As a result of this modification Task Order costs will not be increased or decreased.

Task Order Ceiling Amount: \$289,969.00
Task Order Obligated Amount: \$146,000.00

See Continuation Page for a Summary of Changes.

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) R. B. Kalmbach Executive Director, Contrasts	15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 02/23/2015	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) HUGO ALCANTARA	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 02/23/2015
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NSN 7540-01-152-8070
Previous edition unusable

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

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

MAR 20 2015

ADM002

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A – ORDER FOR SUPPLIES OR SERVICES

Optional Form 347 Block 17(i)

The total cost of this contract was increased by \$0.00 from \$286,969.00 to \$286,969.00.

SECTION B – SUPPLIES OR SERVICES/PRICES

NRCB040 CONSIDERATION AND OBLIGATION – COST-PLUS-FIXED-FEE

(c) The amount obligated by the Government with respect to this contract is \$15,000.00 changed to “The amount obligated by the Government with respect to this contract is \$146,000.00”.

SECTION C – DESCRIPTION/SPECIFICATIONS

Statement of Work entitled “Task Order 20 under Contract NRC-HQ-11-C-03-0047 (JCN J-4640)” is hereby replaced in its entirety with “Task Order 20 under Contract NRC-HQ-11-C-03-0047 (JCN J-4640) Rev.1”.

(End of Summary of Changes)

All other terms and conditions remain unchanged.

**Statement of Work for
Task Order 20 under Contract NRC-HQ-11-C-03-0047
(JCN J-4640)**

Title: Review of License Amendment Request for the Diablo Canyon Nuclear Power Plant Units, 1 and 2, Transition to National Fire Protection Association Standard 805 (NFPA 805), "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," 2011 Edition.

COR: Bernard L. Grenier, 301-415-2726; Bernard.Grenier@nrc.gov
Alternate COR: Naeem Iqbal, 301-415-3346; Naeem.Iqbal@nrc.gov

TAC Numbers: MF2333 and MF2334

BACKGROUND

The United States Nuclear Regulatory Commission (NRC), Office of Nuclear Reactor Regulation (NRR) is currently implementing a new risk-informed, performance-based rule under Section 50.48(c) of Title 10 of the *Code of Federal Regulations* (10 CFR). This rule endorses the National Fire Protection Association Standard 805 (NFPA 805), "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," 2001 Edition.

Pacific Gas and Electric Company, the licensee of Diablo Canyon Nuclear Power Plant Units, 1 and 2, has submitted a license amendment request (LAR) to adopt 10 CFR 50.48(c) (NFPA 805), and this project-level description of work outlines the requirements for technical assistance to be provided by the Center for Nuclear Waste Regulatory Analysis (CNWRA)/South West Research Institute (SwRI) to the Fire Protection Branch (AFPB) in the Division of Risk Assessment (DRA), NRR, to complete the technical review and develop the safety evaluation for the Diablo Canyon Nuclear Power Plant Units, 1 and 2 LAR.

This project will require coordination between CNWRA/SwRI, the Pacific Northwest National Laboratory (PNNL), and the NRC staff. For the Diablo Canyon Nuclear Power Plant Units, 1 and 2 LAR, PNNL (under a separate contract) will be providing technical expertise in nuclear power plant fire protection and fire protection engineering (FPE), safe-shutdown/circuit analysis (SSD/CA), and probabilistic risk assessment (PRA). The NRC technical staff will perform review of the radiological release portion of the LAR.

OBJECTIVE

The objective of this task order is to obtain technical expertise from the CNWRA/SwRI to assist the staff in determining the safety adequacy of the Diablo Canyon Nuclear Power Plant Units, 1 and 2, 10 CFR 50.48(c) (NFPA 805) LAR in the technical review area of nuclear power plant fire modeling and fire protection programmatic portion of LAR so the NRC staff can make a licensing decision regarding whether or not the LAR is in accordance with 10 CFR 50.48(c); NFPA 805, 2001 Edition; and the guidance provided in the NUREG-0800, Standard Review Plan (SRP) Section 9.5.1.2, "Risk-Informed, Performance-Based Fire Protection Program."

TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

One senior-level Fire Protection or Mechanical Engineer on an intermittent, part-time basis to serve as the Principal Investigator (PI) who has background and experience in nuclear power plant design and operations to include procedures related to operations at full-power conditions and shutdown modes. The PI should also be knowledgeable in the application of NUREC/CR-6850 methods which pertains to nuclear power plant fire protection PRA models. The PI must be able to ensure that the LAR reviews performed by the domain experts (e.g., FPE, PRA, SSD/CA) are integrated and address areas that cross-cut domains, i.e., that the review by one domain expert is integrated with the review by other domain experts). The PI must also ensure that the PRA model that is reviewed by the PRA expert makes assumptions about the fire protection program and that the review of the fire protection program assumptions in the PRA model must be a coordinated/integrated review by both the PRA and FPE experts.

One senior-level Fire Protection Engineer on an intermittent, part-time basis who is knowledgeable of nuclear power plant fire protection programs and has in-depth experience in fire modeling and fire hazard analysis; has in-depth knowledge and experience in the design and operation of nuclear power plant fire protection systems; and experience in the application of Appendix R compliance.

One senior-level Mechanical or Nuclear Engineer on an intermittent, part-time basis who is knowledgeable of nuclear power plant design and operation to include procedures related to operations at full-power conditions and shutdown modes and who has in-depth knowledge and experience in the design and operation of fire protection systems and programs implemented at nuclear power plants, and experience in the application of Appendix R regulations.

All three individuals should be knowledgeable in the preparation of input to NRC safety evaluation reports.

The engineers must be able to satisfy the escorted access requirements for the Owner Controlled Area and Protected Area of Diablo Canyon Nuclear Power Plant Units, 1 and 2, site. Diablo Canyon Nuclear Power Plant located in Avila Beach in San Luis Obispo County, California. The plant has two Westinghouse-designed 4-loop Westinghouse pressurized-water reactor nuclear steam supply system.

WORK REQUIREMENTS AND SCHEDULE

Tasks

Scheduled Completion

1. Based on 10 CFR 50.48(c); NFPA 805, 2001 Edition and the guidance provided in the SRP Section 9.5.1.2., review and evaluate the Diablo Canyon Nuclear Power Plant 10 CFR 50.48(c), (NFPA 805) LAR in the areas of nuclear power plant fire modeling and fire protection programmatic and determine the safety adequacy in the areas listed below to enable the staff to make a licensing decision regarding whether or not the LAR is in accordance with the regulations.
 - Fire Modeling;
 - Fire Protection Programmatic Review

Identify areas where any additional information is needed to

- determine if the LAR is in accordance with the applicable regulatory requirements and develop questions for the applicant to obtain the additional information. Prepare a technical letter report.
- a. Draft. Four weeks after receipt of authorization.
 - b. Incorporate NRC comments and prepare the final report. One week after receipt of NRC comments.
2. Prepare for and travel to the Diablo Canyon Nuclear Power Plant site to participate in the an on-site audit of the NFPA 805 LAR in accordance with LIC111, "Regulatory Audits" to review the same areas of nuclear power plant fire protection and fire protection engineering as described in Task 1 and identify the need for more information (Request for Additional Information (RAIs)). Prepare a technical letter report.
- a. Prepare on-site RAIs. The day prior to the last day of the audit.
 - b. Prepare an audit report.
 - (1) Draft. One week after the audit.
 - (2) Incorporate NRC comments and submit the final report. One week after receipt of NRC comments.
3. Based on the work performed to date, determine the adequacy of the areas evaluated above (see Task 1 listing) and prepare a Technical Evaluation Report (TER) utilizing the template and guidance supplied by the NRC.
- a. Draft. Twelve weeks after the audit or as mutually agreed upon between the Project Officer and the PI.
 - b. Incorporate NRC Comments and Prepare the final report. As mutually agreed upon between the Project Officer and the PI.
4. Review and evaluate the RAI responses and determine if the response(s) adequately addressed the open items. If the response(s) is not acceptable, discuss the RAI response(s) with the Project Officer who may determine that a conference call is needed to discuss the RAI response(s) with the licensee in which case the PI will be notified and expected to participate in the conference call. If the response is deemed inadequate, prepare an RAI. If the response is deemed to be adequate, incorporate the results in the TER prepared under Task 3. As mutually agreed upon between the Project Officer and the PI.

5. Review and evaluate any additional RAI responses and determine if the response(s) adequately addressed the open items. If the response(s) is not acceptable, discuss the RAI response(s) with the Project Officer who may determine that a conference call is needed to discuss the RAI response(s) with the licensee in which case the PI will be notified and expected to participate in the conference call. If the response is deemed inadequate, list the issue as an open item in the TER. If the response is deemed to be adequate, incorporate the results in the TER and prepare the updated TER.
- a. Draft. As mutually agreed upon between the COR and the PI.
- b. Incorporate NRC comments and prepare the final TER. One week after receipt of NRC comments.
6. Assemble entire safety evaluation report from parts provided by NRC. Perform consistency review, reference checks, technical editing and additional tasks as needed per guidance received from the NRC.
- a. Draft. As mutually agreed upon between the COR and the PI.
- b. Incorporate NRC comments and prepare the final TER. One week after receipt of NRC comments.
7. Review of Safe Shutdown Analysis and Circuit Analysis Aspects of NFPA 805 LARs
- Compliance with NFPA 805 Nuclear Safety Capability Assessment Methods
 - Applicability of Feed and Bleed
 - Assessment of Multiple Spurious Operations
 - Establishing Recovery Actions
 - Plant Specific Treatments or Technologies (e.g. Very Early Warning Fire Detection Systems)
 - Fire Risk Evaluations
 - Nuclear Safety Capability Assessment Results
 - Nuclear Safety Capability Assessment Results by Fire Area
 - Fire Protection During Non-Power Operational Modes
 - Nuclear Safety Capability Assessment Method Review
 - Nuclear Safety Capability Assessment Results by Fire Area
 - Deterministic Compliance with NFPA 805 Section 4.2.3
 - Performance-Based Compliance with NFPA 805 Section 4.2.4

LEVEL OF EFFORT

The estimated level of effort is 1,314 hours; apportioned among the tasks by labor category is as follows:

<u>Tasks</u>	<u>Labor Category</u>	<u>Level of Effort</u>	
		<u>Current</u>	<u>Revised</u>
1.	PI	60	60
	Sr. Engineer (Mechanical)	100	100
	Sr. Engineer (Fire Protection (FP))	<u>120</u>	<u>120</u>
	Subtotal	280	280
2.	PI	85	85
	Sr. Engineer (Mechanical)	90	90
	Sr. Engineer (FP)	<u>90</u>	<u>90</u>
	Subtotal	265	265
3.	PI	60	60
	Sr. Engineer (Mechanical)	95	95
	Sr. Engineer (FP)	<u>115</u>	<u>115</u>
	Subtotal	270	270
4.	PI	25	25
	Sr. Engineer (Mechanical)	40	40
	Sr. Engineer (FP)	<u>55</u>	<u>55</u>
	Subtotal	120	120
5.	PI	5	5
	Sr. Engineer (Mechanical)	15	15
	Sr. Engineer (FP)	<u>20</u>	<u>100</u>
	Subtotal	40	120
6.	PI	32	0
	Sr. Engineer (FP)	<u>32</u>	<u>0</u>
	Subtotal	64	0
7.	Sr. Engineer (FP)	160	160
	Total Technical Review	1,199	1,215
	Project Management	45	45
	Program Support	<u>54</u>	<u>54</u>
	Subtotal	99	99
	Total by Labor Category:		
	PI	267	235
	Sr. Engineer (Mechanical)	340	340
	Sr. Engineer (FP)	<u>592</u>	<u>640</u>
	Total Technical Review	1,199	1,215

PERIOD OF PERFORMANCE

The projected period of performance is 21 months from authorization of the issuance of the Task Order.

DELIVERABLES

Technical Reporting Requirements

NOTE: All reports are to be prepared in Microsoft Word 2007 or compatible format and submitted electronically to the Project Officer. The transmittal letter and cover page shall contain the Job Code Number (JCN), the Task Order Number, and Title.

1. At the completion of Task 1, submit a technical letter report, draft and final as appropriate, that contains the list of preliminary questions which clearly articulates the bases for the need for further information or discussion. See Attachment 1 for guidance in the preparation of RAIs.
2. At the completion of Task 2, submit a technical letter report that contains the audit RAIs. In addition, submit a technical letter report, draft and final as appropriate, that contains a summary of the activities performed during the audit and a summary of significant highlights, observations, insights, and findings. Include the title and description of any documents, slides, or other materials reviewed on the trip. As appropriate, describe possible resolution of the findings/observations, noting disposition responsibility (if appropriate) of the items presented and reviewed.

Also at the completion of Task 2, submit on-site audit review activities in an audit report in accordance with the example format provided. The Project Officer will provide a current copy of the writing guidelines and a recently-issued audit report. The CNWRA/SwRI should provide qualified professional technical staff to prepare and review the audit report. The CNWRA should ensure the report is technically correct and complete. The CNWRA/SwRI should incorporate comments from the peer review, comments from the NRC staff into the final audit report.

3. At the completion of Task 3, submit a Technical Evaluation Report that contain an assessment of the adequacy of the applicant's LAR in the areas evaluated following the template and guidance for Diablo Canyon Nuclear Power Plant Units, 1 and 2 SER provided by the Project Officer.
4. At the completion of review of each RAI response under Task 4, provide a verbal response for those responses found not to be adequate on a schedule mutually agreed upon with the Project Officer. If the RAI response is deemed to be inadequate, submit a technical letter report that contains the additional RAI(s) on a time-frame mutually agreed upon with the Project Officer. If the RAI response(s) is deemed to be adequate, update the TER.
5. At the completion of review of any additional RAI responses under Task 5, on a schedule mutually agreed upon with the Project Officer, submit the updated TER, draft and final as appropriate; any inadequate response(s) from the licensee is considered an open item and is to be reflected as such in the TER.

Monthly Letter Status Reporting (MLSR) Requirements

A budget is to be developed for each Task based on the agreed upon allocation of the level of effort among the Tasks. Separate expenditures for each Task will be reported in the MLSR against the budget using the following format:

Authorized Cost Ceiling: \$ _____		Funds Obligated to date: \$ _____		
<u>Tasks</u>	<u>Planned Budget</u>	<u>Expenditures for the Period</u>	<u>Task Expenditures Cumulative</u>	<u>Percentage vs. Budget</u>
1.	\$	\$	\$	%
2.	\$	\$	\$	%
3.	\$	\$	\$	%
4.	\$	\$	\$	%
5.	\$	\$	\$	%
6.	\$	\$	\$	%
7.	\$	\$	\$	%
Total	\$ _____	\$ _____	\$ _____	_____ %

A monthly expense variance greater than 10 percent must be explained in the "Problem/Resolution," section.

NOTE: Once a variance reaches 15 percent, prior approval is required in writing from the NRC Project Officer, or a Modification is to be processed.

MEETINGS AND TRAVEL

One two-person, five-day audit trip (fire modeling review) and one one-person, three-day audit trip (fire protection programmatic review) to the Diablo Canyon Nuclear Power Plant site located in Avila Beach, California.

NRC-FURNISHED MATERIALS

The Diablo Canyon Nuclear Power Plant, Units 1 and 2, NFPA 805 LAR can be found on NRC web site under ADAMS Accession Nos. ML13196A140 and ML13196A264.

NOTE: Some of these documents contain proprietary information and must be safeguarded against unauthorized disclosure. After completion of work, the documents should either be destroyed or returned to NRC. If they are destroyed, please confirm this in an E-mail to the Project Officer and include the date and manner in which the documents were destroyed.

The NRC COR will provide those NRC documents related to licensing activities (for example, any Non-Publicly available SERs, audit reports, and related documents) that are readily available. The NRC COR will provide access to training material pertinent to the NFPA 805 LAR reviews or other NRC documents and docketed correspondence on related issues. The CNWRA/SwRI staff shall identify any additional NRC documentation that is needed and the

Project Officer will determine whether these will be provided by the NRC or obtained directly by the CNWRA/SwRI from Agency-Wide Documents Access and Management System (ADAMS), NRC public document room or the NRC website at www.nrc.gov.

For this task order the NRC will provide to or provide access to CNWRA/SwRI (not an all-inclusive listing) the following materials:

1. Regulatory Guide 1.205, "Risk-Informed, Performance-Based Fire Protection for Existing Light-Water Nuclear Power Plants."
2. NUREG-0800, Standard Review Plan, Section 9.5.1.2, "Risk-Informed, Performance-Based Fire Protection Program."
3. Office of Nuclear Reactor Regulation, Office Instruction, Revision 0 of LIC-111, "Regulatory Audits."
4. Office of Nuclear Reactor Regulation, Office Instruction, Revision 3 of LIC-101, "License Amendment Review Procedures."
5. NEI 04-02, *Guidance for Implementing a Risk-Informed, Performance-Based Fire Protection Program Under 10 CFR 50.48(c)*, Revision 2, Nuclear Energy Institute, Washington, DC, April 2008.
6. NFPA 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," 2001 Edition, National Fire Protection Association, Quincy MA.
7. NUREG/CR-6850, "EPRI/NRC-RES, Fire PRA Methodology for Nuclear Power Facilities," Volumes 1 and 2, USNRC, September 2005.
8. Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities," ML070240001 (Clarification to RG 1.200, Revision 1, ML071940235) (Draft Revision 1 was issued as DG-1161, 09/2006, ML062480134) (Revision 0, 02/2004, ML040630078, was issued with SRP Chapter 19.1, ML040630300) (Draft Revision 0 was issued as DG-1122, 11/02, ML023360076)
9. NUREG-1824, "Verification and Validation of Selected Fire Models for Nuclear Power Plant Applications," U.S. Nuclear Regulatory Commission, Washington, DC, May 2007.
10. Regulatory Guide 1.174, Revision 1, "An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis".
11. NRC NUREG 0800, Standard Review Plan, Chapter 19.2, "Review of Risk Information Used to Support Permanent Plant-Specific Changes to the Licensing Basis: General Guidance," Revision 0, June 2007. NEI 00-01, "Guidance for Post Fire Safe Shutdown Analysis," Revisions 1 & 2, Nuclear Energy Institute, Washington, DC.
12. Templates for development of various technical review related documents including but not limited to Audit Reports, RAIs, Safety Evaluations, Technical Specifications, etc.

13. Other NRC guidance such as Frequently Asked Questions (FAQs), historical documents related to previous 10 CFR 50.48(c) reviews, etc.

OTHER APPLICABLE INFORMATION

License Fee Recovery

The work specified in this SOW is license fee recoverable.

Assumptions and Understandings

It is understood that the level of effort contains sufficient effort to conduct telephone conference calls with the NRC staff. Such phone calls, for example, might be arranged by the NRC Licensing Project Manager (LPM) with the NRC staff to discuss the RAIs and to reach an understanding with the licensee. Comments might be provided to CNWRA/SwRI such that the RAIs may have to be resubmitted by CNWRA/SwRI. (Note: In some cases, based on the additional information obtained from the licensee on the conference call, the RAI may not need to be issued.)

The level of effort assumption for the audit under Task 2 is based eight hours for preparation and travel to the site, 40 hours to participate in the audit and return travel and 37 hours for documentation for each traveler.

It is understood that the RAI responses under Tasks 4 and 5 may not be received all at once, but intermittently and that draft responses may be available for review. The level of effort for Task 4 assumes there will be about 50 RAI responses to be addressed and it will take, on the average, two hours to address an RAI response including documentation. Task 5 assumes there will be 10 additional RAI responses and it will take, on the average, two hours to address a response including documentation.

The level of effort assumption for Task 6 is based on eight hours for preparation and travel, sixteen hours for the meeting and eight hours for return travel and preparation of the report for each traveler.

Unless otherwise approved by Letter of Technical Direction or by a Modification, the level of effort among the Tasks cannot be exceeded by more than 15 percent.

It is understood that this project will require coordination between CNWRA/SwRI and the NRC staff since all two will be providing technical expertise and input for the review of the LAR.

Attachment 1

Guidance for Preparing Requests for Additional Information

Additional information necessary to resolve open or unresolved items identified during the review of the information associated with the LAR needs to be requested in a manner that is unambiguous, has an adequate basis, and is necessary for the safety review. RAIs should be developed using the following guidance:

1. An RAI should include the appropriate basis for requesting the information. The basis should explain why the information is needed, including how it will be used to help make a reasonable assurance finding.
2. Judgmental language should be avoided.
 - a. Questions should not make adequacy determinations.
 - b. Words like "unacceptable" or "deficient" and "deviation" should be avoided. Likewise, avoid using phrases like "*the staff will require*" since it is premature to require anything when asking questions.
3. Questions should be focused, not open-ended.
 - a. The RAI should be in the form of a question or an imperative to provide what is needed to complete the review. When the reviewer needs specific information or the underlying issue may not be apparent, the RAI should clearly identify the information requested and/or the underlying issue.
 - b. "If ... then" questions (questions that could lead to follow-on questions) should provide both parts of the question.

After the RAIs have been forwarded to the applicable NRC Project Manager, teleconferences and/or public meetings may be held before issuing the RAIs:

- a. These discussions prevent misunderstandings of the intent of the questions.
- b. If a draft RAI is clarified or resolved before issuance, the NRC staff will prepare a documented record of the resolution (i.e., minutes of a public meeting or a teleconference summary).

After the RAIs have been issued, the applicant may request a telephone conference and/or a public meeting:

- a. The teleconferences and/or meetings provide additional clarification of the intent of the RAIs and will help the licensee prepare satisfactory responses.
- b. To ensure that the response appropriately addresses the RAI, the licensee may submit a draft response (which the NRC docket in the ADAMS) and may request a follow-up teleconference and/or meeting.

After receiving RAI response from the licensee, the NRC may hold a teleconference and/or a public meeting:

- a. The purpose of discussing a response with the licensee is to better understand the response and/or clarify areas of disagreement. If the resolution of a response relies on information not submitted to the NRC, the licensee should submit the information on the docket. The submission is not intended to be another RAI or a means to minimize the number of SER open items, but frequently reduces the number of SER open items.
- b. If the areas of disagreement remain, the unresolved RAI becomes an SER open item.

SOUTHWEST RESEARCH INSTITUTE®

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Refer to: 20.16607.20

February 23, 2015

U.S. Nuclear Regulatory Commission
Acquisition Management Division
Mail Stop: 3WFN-05-C64MP
Washington, DC 20555-0001

Attention: Hugo O. Alcantara
Contract Specialist
Technical Acquisition Branch

Subject: Modification No. M0003 to Task Order No. 20
Contract No. NRC-HQ-11-C-03-0047
Order No. NRC-HQ-20-14-T-0020
SwRI® Project No. 20.16607.20

Dear Mr. Alcantara:

This is to acknowledge receipt of and thank you for subject modification.

The purpose of Modification No. M0003 is to (1) revise support by removing Task 6 and adding Task 7, (2) reallocate support and funding from Task 6 to Task 7, (3) incorporate the revised Statement of Work, and (4) provide incremental funding in the amount of \$30,000. As a result of this modification Task Order Costs will not be increased or decreased. Enclosed is one (1) copy of the subject modification executed on behalf of SwRI. Please fully execute and return one copy for our records.

All other terms and conditions of this task order remain unchanged.

If you have any questions, please contact Mr. Paul Maldonado at 210/522-6836, by facsimile at 210/522-5155, or via e-mail at pmaldonado@swri.org.

Sincerely,



R. B. Kalmbach
Executive Director, Contracts

RBK/PM/of

cc: W. Patrick, GED
L. Howard, CNWRA

B. DeWispelare, SwRI
P. Maldonado, GED



HOUSTON, TEXAS (713) 977-1377 • WASHINGTON, DC (301) 881-0226