

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 4

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

BPA NO.

1. DATE OF ORDER 02/11/11		2. CONTRACT NO. (if any) NRC-HQ-11-03-C-0047		6. SHIP TO:	
3. ORDER NO. T001		4. REQUISITION/REFERENCE NO. NRR-11-157 FAIMIS 112411		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Valerie Whipple Washington, DC 20555 Mail Stop: TWB-01-B10M				b. STREET ADDRESS Richard Daniel Mail Stop OWFN 13F15M	
7. TO:		c. CITY Washington		d. STATE DC	e. ZIP CODE 20555
a. NAME OF CONTRACTOR SOUTHWEST RESEARCH INSTITUTE				f. SHIP VIA	
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 6220 CULEBRA RD				<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.	
d. CITY SAN ANTONIO		e. STATE TX	f. ZIP CODE 782385166		
9. ACCOUNTING AND APPROPRIATION DATA B&R: 20-11-4-148 BOC: 253A APPN: 31X0200.020 FAIMIS: NRR-11-157 \$50,000 transferred from the basic contract DUNS: 007936842				10. REQUISITIONING OFFICE NRR	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))					12. F.O.B. POINT
<input type="checkbox"/> a. SMALL	<input checked="" type="checkbox"/> b. OTHER THAN SMALL	<input type="checkbox"/> c. DISADVANTAGED	<input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED		Destination
<input type="checkbox"/> d. WOMEN-OWNED	<input type="checkbox"/> e. HUBZone	<input type="checkbox"/> f. EMERGING SMALIBUSINESS			
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		January 31, 2012		Net 30

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)
	The Contractor shall provide services in accordance with the attached Statement of Work Entitled "NFPA 805 License Amendment Request Safety Review Kick-off Meeting and Orientation Program." Total CPFF: \$479,293 Total obligated amount: \$50,000 (transferred from the basic contract) Period of Performance: June 10, 2011 through January 31, 2012 Technical Monitor: Naeem Iqbal 301-415-3421 NRC Project Officer: Rick Daniel 301-415-6319 List of Attachments: Statement of Work <p align="right">TOTAL TASK ORDER CEILING.....\$479,293</p> DUNS: 007936842					

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@nbc.gov		CPFF \$479,293 Current Ceiling				17(i) GRAND TOTAL
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			

22. UNITED STATES OF AMERICA BY (Signature)		23. NAME (Typed) Valerie Whipple Contracting Officer TITLE: CONTRACTING/ORDERING OFFICER	
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Please indicate your acceptance of this order by having an official who is authorized to bind your organization, execute this document in the space provided below.

ACCEPTED:

Signature: Alfanzo

Name: R.B. Kalmbach

Title: Executive Director, Contracts

Date: June 23, 2011

TASK ORDER TERMS AND CONDITIONS

1. CONSIDERATION AND OBLIGATION--COST PLUS FIXED FEE (JUN 1988) ALTERNATE I (JUN 1991)

- (a) The total estimated cost to the Government for full performance of this contract is **\$479,293** of which the sum of [REDACTED] represents the estimated reimbursable costs, and of which [REDACTED] represents the fixed fee. In the event that the Government exercised optional tasks, the task order shall increase as follows:
- (b) There shall be no adjustment in the amount of the Contractor's fixed fee by reason of differences between any estimate of cost for performance of the work under this contract and the actual cost for performance of that work.
- (c) The amount currently obligated by the Government with respect to this contract is **\$50,000**, of which the sum of [REDACTED] represents the estimated reimbursable costs, and of which [REDACTED] represents the fixed fee.

2. PERIOD OF PERFORMANCE

The period of performance of this order shall be **June 10, 2011** through **January 31, 2012**.

3. 2052.215-78 TRAVEL APPROVALS AND REIMBURSEMENT -ALTERNATE 1 (OCT 1999)

- (a) Total expenditure for travel may not exceed \$ [REDACTED] without the prior approval of the contracting officer.
- (b) All foreign travel must be approved in advance by the NRC on NRC Form 445, Request for Approval of Official Foreign Travel, and must be in compliance with FAR 52.247-63 Preference for U.S. Flag Air Carriers. The contractor shall submit NRC Form 445 to the NRC no later than 30 days prior to the commencement of travel.
- (c) The contractor will be reimbursed only for those travel costs incurred that are directly related to this contract and which are allowable subject to the limitations prescribed in FAR 31.205-46.
- (d) It is the responsibility of the contractor to notify the contracting officer in accordance with the FAR Limitations of Cost clause of this contract when, at any time, the contractor learns that travel expenses will cause the contractor to exceed the travel ceiling amount identified in paragraph (a) of this clause.
- (e) Reasonable travel costs for research and related activities performed at State and nonprofit institutions, in accordance with Section 12 of Pub. L. 100-679, shall be charged in accordance with the contractor's institutional policy to the degree that the limitations of Office of Management and Budget (OMB) guidance are not exceeded. Applicable guidance documents include OMB Circular A-87, Cost Principles for State and Local Governments; OMB Circular A-122, Cost Principles for Nonprofit Organizations; and OMB Circular A-21, Cost Principles for Educational Institutions.

4. 2052.215-70 KEY PERSONNEL (JAN 1993)

(a) The following individuals are considered to be essential to the successful performance of the work hereunder:

Name

Title

[REDACTED]

**Project Manager
Principal Investigator**

The contractor agrees that personnel may not be removed from the contract work or replaced without compliance with paragraphs (b) and (c) of this section.

- (b) If one or more of the key personnel, for whatever reason, becomes, or is expected to become, unavailable for work under this contract for a continuous period exceeding 30 work days, or is expected to devote substantially less effort to the work than indicated in the proposal or initially anticipated, the contractor shall immediately notify the contracting officer and shall, subject to the concurrence of the contracting officer, promptly replace the personnel with personnel of at least substantially equal ability and qualifications.
- (c) Each request for approval of substitutions must be in writing and contain a detailed explanation of the circumstances necessitating the proposed substitutions. The request must also contain a complete resume for the proposed substitute and other information requested or needed by the contracting officer to evaluate the proposed substitution. The contracting officer and the project officer shall evaluate the contractor's request and the contracting officer shall promptly notify the contractor of his or her decision in writing.
- (d) If the contracting officer determines that suitable and timely replacement of key personnel who have been reassigned, terminated, or have otherwise become unavailable for the contract work is not reasonably forthcoming, or that the resultant reduction of productive effort would be so substantial as to impair the successful completion of the contract or the service order, the contract may be terminated by the contracting officer for default or for the convenience of the Government, as appropriate. If the contracting officer finds the contractor at fault for the condition, the contract price or fixed fee may be equitably adjusted downward to compensate the Government for any resultant delay, loss, or damage.

5. SEAT BELTS

Contractors, subcontractors, and grantees, are encouraged to adopt and enforce on-the-job seat belt policies and programs for their employees when operating company-owned, rented, or personally owned vehicles.

6. WHISTLEBLOWER PROTECTION FOR NRC CONTRACTOR AND SUBCONTRACTOR EMPLOYEES (JULY 2006)

(a) The U.S. Nuclear Regulatory Commission (NRC) contractor and its subcontractor are subject to the Whistleblower Employee Protection public law provisions as codified at 42 U.S.C. 5851. NRC contractor(s) and subcontractor(s) shall comply with the requirements of this Whistleblower Employee Protection law, and the implementing regulations of the NRC and the Department of Labor (DOL). See, for example, DOL Procedures on Handling Complaints at 29 C.F.R. Part 24 concerning the employer obligations, prohibited acts, DOL procedures and the requirement for prominent posting of notice of Employee Rights at Appendix A to Part 24.

(b) Under this Whistleblower Employee Protection law, as implemented by regulations, NRC contractor and subcontractor employees are protected from discharge, reprisal, threats, intimidation, coercion, blacklisting or other employment discrimination practices with respect to compensation, terms, conditions or privileges of their employment because the contractor or subcontractor employee(s) has provided notice to the employer, refused to engage in unlawful practices, assisted in proceedings or testified on activities concerning alleged violations of the Atomic Energy Act of 1954 (as amended) and the Energy Reorganization Act of 1974 (as amended).

(c) The contractor shall insert this or the substance of this clause in any subcontracts involving work performed under this contract.

STATEMENT OF WORK

Contract Title: Review of License Amendment Requests for Nuclear Power Plants
Transitioning
to the National Fire Protection Association (NFPA) Standard, "Performance-Based Standard for
Fire Protection for Light Water Reactor Electric Generating Plants" (NFPA 805)

Task Order Title: NFPA 805 License Amendment Request Safety Review Kick-off Meeting and
Orientation Program

Job Code Number (JCN): J-4640

Task Areas: Kick-off Meetings, Orientation, Readiness Assessment and Pre-Application
Activities, and Regulatory Infrastructure Update

Task Order #: 1

Budget & Reporting No: XXX-XX-XXX-XXX

NRC Issuing Office: Office of Nuclear Reactor Regulation

Technical Assistance Project Manager (TAPM): Richard D. Daniel, (301) 415-6319,
Richard.Daniel@nrc.gov

NRC Technical Monitor (TM): Naeem Iqbal, (301) 415-3346, Naeem.Iqbal@nrc.gov

Fee Recoverable: No

TAC Number: ME3706

Performing Organization: Center for Nuclear Waste Regulatory Analyses
(CNWRA hereafter Center)

1.0 Background

The Office of Nuclear Reactor Regulation (NRR) is a major program of the U.S. Nuclear Regulatory Commission (NRC) that is responsible for the licensing and regulatory oversight of commercial nuclear power reactors, research reactors, and test reactors in the United States. NRR develops and implements regulations and policies, programs, and procedures pertaining to all aspects of licensing and inspection of these facilities. The wide range of NRR activities includes the review of operating reactor license amendments and the development of programs to guide regional office-based inspections from the outset of plant construction throughout the facility's operating lifetime. NRR identifies and takes actions regarding conditions and licensee performance that may adversely affect public health and safety, the environment, or the safeguarding of nuclear reactor facilities. The program office assesses and recommends, or takes, actions regarding incidents or accidents.

The Division of Risk Assessment (DRA) is one of four technical divisions reporting to one-of-two Deputy Office Directors. DRA is responsible for performing Probabilistic Risk Assessment (PRA) safety evaluations of licensee implementation of NRR requirements and changes to existing licenses. DRA provides technical expertise for special inspections, projects, programs, and policy activities. NRR/DRA/AFP also reviews operating experience involving fires or fire protection systems and disseminates information on significant issues to licensees and Regional staff.

In June 2004, the NRC amended its regulations to provide nuclear plant licensees a new option for complying with fire protection requirements. U.S. nuclear plants currently have fire protection programs based on deterministic regulations. With the publishing of the new rule, licensees may voluntarily choose to change to a risk-informed performance-based fire protection program based on the National Fire Protection Association (NFPA) standard NFPA 805, "Performance-Based Standard for Fire Protection for Light-Water Reactor Electric Generating Plants" (2001 Edition).

Title 10, Section 50.48(a), of the *Code of Federal Regulations* (10 CFR 50.48), "Fire protection," requires each licensee to have a fire protection plan that satisfies the following:

"Structures, systems, and components important to safety shall be designed and located to minimize, consistent with other safety requirements, the probability and effect of fires ... Fire detection and fighting systems of appropriate capacity and capability shall be provided and designed to minimize the adverse effects of fires on structures, systems, and components important to safety. ..."

The deterministic means for meeting these requirements come from 10 CFR 50, Appendix R, "Fire Protection Program for Nuclear Power Facilities Operating Prior to January 1, 1979," or from plant-specific requirements incorporated into the operating license of plants licensed after that date. NRC's deterministic fire protection requirements is referred as the "Appendix R" approach, because the same technical requirements are applied to the newer plants as well.

Paragraph (c) of 10 CFR 50.48, "National Fire Protection Association Standard NFPA 805," incorporates the 2001 Edition of NFPA 805 into the NRC regulations, with certain exceptions, and allows licensees to adopt and maintain a fire protection program that meets the requirements of NFPA 805 as an alternative to the Appendix R requirements. Licensees who choose to comply with 10 CFR 50.48(c) must submit a license amendment application to the NRC and receive approval to implement the new fire protection program.

Although the requirements of NFPA 805 differ from those in Appendix R in a number of areas, most notably in the allowance of performance-based alternatives to deterministic compliance, the NRC determined that either approach satisfies the requirements of 10 CFR 50.48(a). The *statements of consideration* for 10 CFR 50.48(c) noted that the new regulations are acceptable because achieving the nuclear safety goals, objectives, and performance criteria of NFPA 805 provide controls for maintenance of the reactor fuel and the plant condition that ensure adequate protection of public health and safety. The NRC concluded that the criteria and methodologies contained in NFPA 805 provide acceptable alternatives to the requirements in Appendix R.

Issuing 10 CFR 50.48(c) is consistent with the NRC's ongoing transition to risk-informed,

performance-based regulation, which began in the early 1990's. Also, the new rule addressed comments from the nuclear industry and some members of the public that the prescriptive, deterministic fire protection regulations represented a significant regulatory burden that was unnecessary to achieve an acceptable level of safety. The rulemaking effort was aided by NFPA publishing, in 2001, its consensus standard on performance-base fire protection, NFPA 805.

In both NFPA 805 and Appendix R, the deterministic approach utilizes barriers, separation, detection and suppression to protect one success path of required cables and equipment to achieve and maintain the nuclear safety performance criteria. Operator actions are not allowed for the protection of this equipment and cables. For each fire area where the deterministic approach is used, the licensee must demonstrate that the physical conditions (e.g., barriers, separation) exist such that the success path equipment and cables are free from fire damage. The deterministic approach is deemed to meet the nuclear safety performance criteria by virtue of the physical protection of the necessary hardware.

The performance-based approach uses engineering analyses to demonstrate that nuclear safety performance criteria are satisfied. There are two performance-based methods in NFPA 805: fire modeling and fire risk evaluation. The NRC regulation, 10 CFR 50.48(c), allows licensees to propose additional risk-informed or performance-based methods and, upon approval by the NRC, to use these methods to demonstrate compliance with NFPA 805.

2.0 Objective

The objective of this task order is to obtain expert technical assistance to assist the staff in infrastructure development and provide orientation to prospective contractor team members to provide the regulatory insights necessary to assist the NRC in NFPA 805 licensing review activities.

Specifically, the Center will assist the staff in the following subtasks:

Subtask A – Orientation Program and Kickoff Meetings

Objective

The Center project staff shall attend a project initiation and orientation (kickoff) meeting with NRC staff within 10 working days of award of the agreement. Details of this meeting is provided in Section 4 of this Statement of Work (SOW).

The Center will also review the NFPA 805 infrastructure to orient the contractors in the review of LAR submittals. This involves, but is not limited to, reviewing the Standard Review Plan, regulatory guides (especially Regulatory Guide (RG) 1.205, RG 1.174, RG 1.189 and RG 1.200), fire modeling verification and validation study (NUREG-1824), fire PRA standards (Part 4 of ASME/ANS RA-Sa-2009), NFPA 805 pilot plant Safety Evaluation Reports, NFPA 805 pilot plants audit reports, and NRC/industry guidance and methods related to use of a fire PRA in developing the plant's licensing basis (especially NUREG/CR-6850, with supplements containing Frequently Asked Question (FAQ) closures). The purpose of this is for the Center to gain the regulatory insights to independently and effectively evaluate the acceptability of the NFPA 805 LARs and perform safety reviews. This participation is necessary to ensure that technically qualified individuals are familiar with NRC regulatory practices and expectations for NFPA 905 LAR reviews. Other activities include:

- Orientation to become familiar with the regulatory framework, schedules, references and reports associated with NFPA 805 LAR reviews.
- Participation in NFPA 805 LARs safety review Kick-off Meetings
- Orientation to assure consistency of reviews and products.
- Participation in a workshops in the use of NUREG/CR-6850, "EPRI/NRC-RES Fire PRA Methodology for Nuclear Power Facilities."
- Maintaining Center staff awareness of specific commercial nuclear power plant fire protection programs and NRC fire protection requirements.

Subtask B – Fire Modeling User's Guide

Objective

The objective of this task is to obtain technical expertise to support NFPA 805 rule implementation by performing a detailed review of the draft Fire Modeling Users Guide (draft NUREG-1934/EPRI 1019195) developed by the NRC RES and EPRI. This subtask also includes assistance in reviewing RES/EPRI comment dispositions and resolution of open items for NUREG-1934. This draft report provides guidance on the use of fire models in analyzing nuclear power plant fire protection issues. The features and limitations of the five fire models documented in NUREG-1824 are discussed relative to nuclear power plant fire protection. The draft report also describes the implications of the verification and validation results for fire model users and reviewers.

Subtask C – Audit Enhancements

Objective

The objective of this subtask is to capture insights gained from the NFPA 805 pilot plant onsite audits. The NRC staff and contractors shall conduct regulatory audits of the two NFPA 805 pilot plants, Oconee Nuclear Station (Oconee) and Harris Nuclear Plant (Harris), using the guidance of NRR office instruction LIC-111, "Regulatory Audits." This subtask involves lessons learned to be incorporated into future onsite audits for NFPA 805 transitions. Some of the insights involve audit logistics and others involve technical or licensing issues. The insights are intended to provide information to aid both NRC staff and licensees in the efficient and effective performance of audits. Based on the review of the pilot audit reports, the Center shall propose improvements and enhancements to the future NFPA 805 onsite regulatory audits. The NRC staff plans to use the observations with respect to scope, content, and focus of the LARs audit to revise the regulatory guidance (e.g., Regulatory Guide 1.205; Standard Review Plan Section 9.5.1.2, "Risk-Informed, Performance-Based Fire Protection Program" Rev. 0 (December 2009)).

Subtask D – Regulatory Infrastructure

Objective

The SECY-XX-XXX, "Lessons-Learned from the Transition of the Pilot Plants to the New Fire Protection Licensing Basis," discussed key results and important lessons-learned for the review of two NFPA 805 pilot plants LARs. The safety evaluations for Shearon Harris and Oconee risk-informed modifications document and demonstrate how fire safety may be enhanced by using risk insights. The Center shall provide technical assistance in incorporating lessons-learned into updates for the NFPA 805 related documents, including Regulatory Guide 1.205 "Risk-Informed, Performance-Based Fire Protection for Existing Light-Water Nuclear Power Plants" Rev. 1 (December 2009), NUREG-0800/Standard Review Plan 9.5.1.2, "Risk-Informed, Performance-Based Fire Protection Program" Rev. 0 (December 2009), and interim staff positions on technical issues identified by NFPA 805 pilots and non-pilots through Frequently Asked Questions (FAQs), as discussed in Subtask E.

Subtask E - Frequently Asked Questions

Objective

The NRC established a FAQs process to provide interim staff positions on technical issues identified by NFPA 805 pilots and non-pilots. Regulatory Issue Summary (RIS) 2007-19, "Process for Communicating Clarifications of Staff Positions Provided in Regulatory Guide 1.205 Concerning Issues Identified during the Pilot Application of National Fire Protection Association Standard 805," established and describes the FAQ process in detail. The objective of this subtask is to support review and disposition of current and future FAQs. To date, over 50 FAQs have been submitted, most of which have achieved closure. NRC continues to work on the remainder and anticipates more in the future as the non-pilots undergo LAR review. The interim staff positions that the FAQ process generates provide a measure of regulatory stability to licensees who are transitioning to NFPA 805. These positions are officially finalized by formally incorporating them into RG 1.205, although, for all practical purposes, they are "final" once NRC issues the FAQ closure memo.

Subtask F – Safety Evaluation Integration Procedure

Objective

The objective of this subtask is to develop a procedure to integrate the NFPA 805 Safety Evaluation Report to ensure that the staff review will result in (1) a focused and consistent review process in determining the technical acceptability of the LAR submittals. The procedure should be of sufficient scope and detail so that the future NFPA 805 safety evaluation reports are written in an effective and efficient manner.

Subtask G – Request for Additional Information (RAI) System (SharePoint Platform)

Objective

The objective of this subtask is designed to electronically categorize, track, and communicate NFPA 805 LAR safety review requests for information (RAIs) and the licensees' responses to them across both individual and multiple LARs. Specifically, the system is intended to support (1) NRC staff in generating, reviewing, and issuing RAIs; (2) licensees in responding to RAIs; and (3) staff and licensees in tracking RAIs.

Throughout the pilot plant safety review process a number of technical and regulatory questions arose and staff developed many RAIs that ranged in length and complexity to ascertain the sufficiency of the information the licensee had provided and staff had developed in its findings. To better manage and improve the efficiency of the review, a central database is beneficial to the review process.

For example, in some instances, the licensees using the same reference reactor design may ask the same question, and one licensee may have already provided a satisfactory answer. With an RAI database tracking system in place, the second reviewer can access the previously submitted information, thereby avoiding another RAI and improving the efficiency of the review. This will avoid concern from licensees that duplicate or unnecessarily detailed RAIs may result because many of the reviews will be conducted simultaneously by multiple reviewers.

The purpose of the NFPA 805 LAR RAI database is to document key technical issues identified during the pilot and future NFPA 805 LAR safety reviews. The database is expected to change over time and represent a living document with data periodically archived and development focused on both the preservation and collection of additional information.

3.0 Technical and Other Special Qualifications, and Key Personnel

The use of experienced personnel for the key positions on this task is considered essential to the success of the overall project. The Center Project Manager (PM) will propose key personnel (Task Leader/Principal Investigator and prospective Project Team Leaders) for this task subject to the approval of the NRC Technical Monitor (TM) and NRC TAPM. Changes to key personnel by the Center require the prior approval of the NRC TM and NRC TAPM.

Key personnel will have in-depth expertise of commercial nuclear power plant fire protection programs and expertise in fire modeling and fire hazard analysis; key personnel shall participate in orientation activities and kick-off meetings at the NRC Headquarters in Rockville, Maryland. Other Center personnel may participate in orientation activities via audio/video conference call at the NRC Headquarters.

It is the responsibility of the Center to assign technical staff, employees, consultants, subcontractors, or specialists who have the required educational background, experience, or combination thereof to meet both technical and regulatory objectives of the work specified in this Statement of Work. The NRC will rely on representations made by the Center concerning the qualifications of the personnel assigned to this project including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful.

Of the work activities described in the Project Scope of Work, the following are included in this Task Scope of Work:

- Participation in meetings and discussions with NRC licensees for scheduling, for coordinating interactions, for familiarization with the facility, and for reviewing and evaluating technical issues.
- Participation in, FAQ public meetings, and meetings to discuss the draft infrastructure update.

In addition, the Center key personnel will participate in periodic lessons-learned discussions to identify candidate opportunities for process improvement. At the end of the task, the Center Task Leader will issue a technical evaluation report identifying any potential process improvements or lessons learned to increase the effectiveness or efficiency of reviews. This report will also provide a listing of the personnel that completed the orientation activities and should be considered for technical reviewer positions.

The Center must be absolutely free from direct or the appearance of organizational conflict of interest with respect to any of the licensee's of NFPA 805 LAR plant/utilities. If any work will be subcontracted or performed by consultants, the Center shall obtain the NRC's written approval of the subcontractor or consultant prior to initiation of the subcontract effort. Conflict of interest considerations will also apply to any subcontracted effort.

4.0 Work Requirement and Schedule

Upon the acceptance of this task order, the Center Task Leader will identify key personnel, subject to the approval of the NRC TM. The Center project staff shall attend a project initiation and orientation meeting with NRC staff within 10 working days of award of the agreement. This meeting will take place at the location of Center, NRC Rockville, Maryland office, or via teleconference. Orientation will also occur while the NRC staff is at a Center facility, at the NRC Rockville, Maryland office, or via teleconference. The purpose of the initial meeting is to discuss and finalize the draft project plan provided in response to the agreement request for proposal. The NRC TAPM, NRC TM, and Center PM shall establish the elements of the final project plan, inclusive of deliverables, schedules, and staffing, and shall discuss expectations and objectives of the technical assistance, timeliness and quality of review products. The Center staff shall perform the review in accordance with the final project plan approved by the NRC TM. A copy of the final Project Plan shall be sent electronically (MS Project or similar format) to the NRC TM and PO for the task order.

Work plans should accommodate the following expected deliverables:

<u>Subtask</u>	<u>Subtask Description</u>	<u>Completion Schedule</u>
A	<p>Orientation to become familiar with the NFPA 805 LARs regulatory framework.</p> <p>Participation in NFPA 805 LARs safety review Kick-off Meetings.</p> <p>Participation in NFPA 805 LAR safety evaluation technical reviewer consistency training workshops.</p> <p>Participation in training workshops in the use of NUREG/CR-6850, "EPRI/NRC-RES Fire PRA Methodology for Nuclear Power Facilities.</p> <p>Maintain the Center staff awareness of the commercial nuclear power plant fire protection program and NRC fire protection requirements.</p>	Ongoing - Shadowing will be made available as early as June 2011

<u>Subtask</u>	<u>Description</u>	<u>Completion Schedule</u>
B	<p>Receive and review draft Fire Modeling User's Guide (Draft NUREG-1934). Develop detail comments on the guide. Prepare a letter report.</p> <p>Review RES/EPRI responses to the comments (disposition of comments) and identify those issues that have been resolved and those for which further discussion may be needed along with the basis for resolution. Prepare a letter report.</p> <p>If necessary, prepare for and attend meetings and conferences with the RES/EPRI to assist AFPB in resolving open items.</p>	<p>8 weeks after receiving NRC provided documents.</p> <p>3 weeks after receiving NRC provided documents.</p> <p>As necessary.</p>

<u>Subtask</u>	<u>Description</u>	<u>Completion Schedule</u>
C	Receive and review NRR Office Instructions LIC 111, NFPA 805 pilot plant audit plan, and onsite audit reports	8 weeks after receiving NRC provided documents.

<p>Prepare a technical letter report and proposed recommendations for improvements and enhancements to the future NFPA 805 onsite regulatory audits.</p> <p>If necessary, prepare for and attend (via video or teleconference) meetings with the NRR staff in resolving open issues.</p>	<p>8 weeks after receiving NRC provided documents.</p> <p>As necessary.</p>
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<u>Subtask</u>	<u>Description</u>	<u>Completion Schedule</u>
D	<p>Receive and review the SECY-XX-XXX paper and other related NFPA 805 infrastructure documents.</p> <p>Update regulatory guide and standard review plan based on the lesson learned in the SECY paper. This may requires review of industry guidance and positions and interim staff positions in FAQs.</p> <p>Prepare a letter report.</p> <p>Incorporate NRC and public comments and prepare the final report.</p>	<p>8 weeks after receiving NRC provided documents.</p> <p>8 weeks after receiving NRC provided documents.</p> <p>As necessary.</p>

<u>Subtask</u>	<u>Description</u>	<u>Completion Schedule</u>
E	<p>Receive and review the open FAQs, RIS 2007-19, and closed FAQs.</p> <p>Evaluate, assess, and develop comment and support public/NEI meetings and discuss issues and proposed resolution on open FAQs.</p> <p>Incorporate staff and industry comments and prepare the final report for the issuance of FAQ closure memo.</p>	<p>8 weeks after receiving NRC provided documents.</p> <p>8 weeks after receiving NRC provided documents.</p> <p>As necessary.</p>

<u>Subtask</u>	<u>Description</u>	<u>Completion Schedule</u>
F	<p>Receive and review the non-public version of the NFPA 805 safety evaluation reports. Proposed recommendations for an integration procedure.</p> <p>Develop an integration procedure for an effective and efficient organization of the future NFPA 805 safety evaluation reports. Prepare the draft report for staff comment.</p>	<p>8 weeks after receiving NRC provided documents.</p> <p>8 weeks after receiving NRC provided documents.</p>

Incorporate staff comments and prepare the final report.	As necessary.
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<u>Subtask</u>	<u>Description</u>	<u>Completion Schedule</u>
G	Receive and review the pilot plant RAI and responses from the licensees. Proposed recommendations to develop a RAI database and trace system on SharePoint Platform.	8 weeks after receiving NRC provided documents.
	Prepare the draft report for staff comment.	8 weeks after receiving NRC provided documents.
	Incorporate staff comments and prepare the final report.	As necessary.

The Center shall submit a cost estimate, staffing plan, and project plan with a schedule for deliverables within 10 days of receipt of this task order, unless otherwise directed by the NRC TAPM.

The Center shall provide the following information in their technical proposal, prior to initiation of a task order:

- A staffing plan that specifically reflects services to be provided
- A quality control plan which outlines the procedures and system the Center will use for document version and configuration control, technical input tracking, change management, and technical and editorial reviews. The Center shall organize, track, and manage changes in a structured, systematic, and transparent manner, throughout the production of each task order deliverable
- The Center shall also provide a statement of professional qualifications for staff proposed to work under this task order.

5.0 Monthly Letter Status Report

The Center shall submit monthly letter status reports (MLSR) as specified in the Attachment within the basic contract. The Center shall issue each MLSR no later than the 20th of the month, and a total of the month ending (or billing cycle) costs shall be provided by e-mail to the NRC TAPM no later than the 15th of the month. For purposes of billing, assume an even split between dockets for a multiple, same site application. On an exception basis, the safety/environmental project manager will determine if a separate task order should be issued to capture significant docket-specific expenditures.

The technical status section of the report shall contain a summary of the work performed during the reporting period on this Task Order, and milestones reached, or, if missed, an explanation; any problems or delays encountered or anticipated with recommendations for resolution; and plans for the next reporting period. The status shall include information on travel during the period to include trip start and end dates, destination, and travelers.

Electronic Spending Plan

Along with the MLSR, the Center shall submit monthly an updated version of the Electronic Spending Plan (ESP). The timetable and submission format are equal to the MLSR. There shall be one ESP for all TOs within a JCN. If changes and updates are needed at the interim period, the Center shall note that in the Log sheet and then make the changes in the ESP sheet.

E-mail progress Report

The Center shall provide an interim progress report bi-weekly to include staff hours expended and percent completed for each subtask under this task order and the forecast for the remainder of the work effort. The report shall be sent electronically by e-mail to the NRC TAPM and TM.

Technical Reporting Requirements

Typically, reports will involve:

- Trip reports with meeting summaries, observations and recommendations;
- Technical letter reports;
- Draft and final Technical Evaluation Reports (TERs) that summarize the work performed, orientation activities, results attained, findings, conclusions, and recommendations.

Unless otherwise specified above, the Center 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 Center. The Center shall revise the draft deliverable based on the comments provided by the NRC TM, and then deliver the final version of the deliverable. When mutually agreed upon between the Center and the NRC TM, the Center may submit preliminary or partial drafts to help gauge its understanding of the particular work requirement.

The Center shall provide the following deliverables in hard copy and electronic formats. The electronic format shall be Microsoft® WORD or other word processing software approved by the NRC TM. For each deliverable, the Center shall provide one hard copy and electronic copy to both the NRC TAPM and TM. The schedule for deliverables shall be contained in the approved project plan for the task order effort.

The transmittal letter and cover page of each report, or other deliverable, as appropriate, shall contain the Job Control Number (JCN), Project Title, NRC Technical Assignment Control (TAC) Number(s), as appropriate. At the direction of the NRC TM, certain deliverables may need to be prepared in NUREG or NUREG/CR format.

6.0 Performance Standards

The Center performance will be evaluated based on meeting the performance standards provided in the basic task ordering agreement. As provided in the basic task ordering agreement a feedback form shall be completed documenting this evaluation. It should be noted that award of subsequent task orders will be based on the Contractor's success in meeting the schedule, milestones and deliverable requirements of the preceding task orders.

7.0 Meetings and Travel

The following travel assumptions should be considered in planning the work effort. It is likely that a smaller group than the entire review team will be necessary to accomplish some activities; the actual travel contingent will be determined by the NRC TM after discussion with the Center PM. Travel in excess of the total number of person-trips must be approved by the NRC TAPM; travel within the work scope limits will be approved by the NRC TM.

The PI and Subject Matter Experts (SMEs), will attend kick-off meetings, acceptance review, orientation, and readiness assessment meetings conducted in NRC Headquarters in Rockville, Maryland. The Center will plan on making key personnel assigned available for any project progress meeting or program review that may be held at the NRC Headquarters or Center's location while the project is active. Working meetings involving the PI, SMEs, and NRC staff should be planned. Other travel will be confirmed with the NRC TM prior to commencement of the travel.

Routine status meetings (weekly to monthly) by the NRC TM and facilitator should be conducted using electronic means of Tele/Video-conferences or other means to minimize travel costs. Periodically, over the course of this contact, the Center will interact (e.g., via e-mail or telephone) with the NRC TM to discuss (a) project progress, (b) questions, (c) NRC comments, and (d) the conduct and content of tasks associated with this contract. It is anticipated that most of the communication between the NRC and the Center will be handled in this manner. Periodically, a program review meeting; which involves NRC and Center management, will be held at the NRC or Center's location to review overall program objectives and project performance; program reviews are typically held annually.

8.0 NRC Furnished Material

The NRC TM will provide those NRC documents related to licensing activities (for example, an Non-Publicly available SERs, audit reports, and related documents) that are readily available. The NRC TM will provide access to training material pertinent to the NFPA 805 LARs reviews or other NRC documents and docketed correspondence on related issues. The Center staff will identify any additional NRC documentation that is needed and the TM will determine whether is will be provided by the NRC or obtained directly by the Center from ADAMS, NRC public document room or the NRC website at www.nrc.gov.