

# ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 2

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

BPA NO.

1. DATE OF ORDER <b>SEP 04 2008</b>		2. CONTRACT NO. (If any) NRC-42-07-482		6. SHIP TO:	
3. ORDER NO. 0032		4. REQUISITION/REFERENCE NO. 42-07-482T032 NRO 08 266		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Kala Shankar 301-415-6310 Mail Stop T-7-I-2 Washington, DC 20555				b. STREET ADDRESS Attn: Robert Pretz 301-415-1980 Mail Stop: T6-C34	
7. TO:		c. CITY Washington		d. STATE DC	e. ZIP CODE 20555
a. NAME OF CONTRACTOR ENERGY RESEARCH INC				f. SHIP VIA	
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 6167 EXECUTIVE BLVD				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY 	
d. CITY ROCKVILLE		e. STATE MD	f. ZIP CODE 208523901		
9. ACCOUNTING AND APPROPRIATION DATA 825-15-171-111; Q4013; 252A; 31X0200 \$60,000 Contractor DUNS: 621211259				10. REQUISITIONING OFFICE NRO	
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input checked="" type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. EMERGING SMALL BUSINESS <input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED				12. F.O.B. POINT Destination	
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
a. INSPECTION		b. ACCEPTANCE		16. DISCOUNT TERMS 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)
	Issuance of Task Order No. 32 under Contract No. NRC-42-07-482  Title: "Fermi SCOLA - Review SRP Chapters 12.1 - 12.5 and 14.3:8"  Period of Performance: 09/04/2008-03/03/2011 Estimated Reimbursable Cost: \$184,500.40 Fixed Fee: \$9,225.02 Total Cost Plus Fixed Fee: \$193,725.42  Funding in the amount of \$60,000 is being provided.  See attached pages for a description of Task Order 32					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME U.S. Nuclear Regulatory Commission Payment Team, Mail Stop T-9-H-4						
	b. STREET ADDRESS (or P.O. Box) Attn: NRC-42-07-482, Task Order 32						
	c. CITY Washington	d. STATE DC	e. ZIP CODE 20555				17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA  
BY (Signature)

*Kala Shankar*

23. NAME (Typed)  
Kala Shankar  
Contracting Officer

TITLE: CONTRACTING/ORDERING OFFICER

AUTHORIZED FOR LOCAL REPRODUCTION  
PREVIOUS EDITION NOT USABLE

TEMPLATE - ADMCOI

SUNSI REVIEW COMPLETE

OCT 22 2008

OPTIONAL FORM 347 (REV. 4/2006)  
PRESCRIBED BY GSA FPMR (41 CFR 101-11.6)

ADMCOI

In accordance with Section G.4, Task Order Procedures, of Contract No. NRC-42-07-482, this definitizes Task Order No. 32. The effort shall be performed in accordance with the attached Statement of Work.

Task Order No. 32 shall be in effect from September 4, 2008 through March 3, 2011, with a cost ceiling of \$193,725.42. The amount of \$184,500.40 represents the estimated reimbursable costs, and the amount of \$9,225.02 represents the fixed fee.

The amount obligated by the Government with respect to this task order is \$60,000, of which \$57,143 represents the estimated reimbursable costs, and the amount of \$2,857 represents the fixed fee.

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

Your contacts during the course of this task order are:

Technical Matter: Karen Chapman  
Project Officer  
301-415-3653

Contractual Matters: Kala Shankar  
Contract Specialist  
301-415-6310

Acceptance of Task Order No. 32 should be made by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist at the address identified in Block No. 5 of the OF 347. You should retain the third copy for your records.

ACCEPTANCE:



NAME

PRESIDENT

TITLE

09/03/08

DATE

## TASK ORDER STATEMENT OF WORK

JCN/Contract No. Q-4013	Laboratory/Contractor ERI Inc.	Task Order No. 32 NRC-42-07-482 - 32
Applicant Detroit Edison Energy	Design/Site ESBWR/Fermi	Docket No. Project No. 757
Title/Description Review SRP Chapter 12.1 – 12.5 and 14.3.8 for the Fermi (ESBWR) SCOL Application		
TAC No. RX0544	B&R Number 825-15-171-111	SRP Section(s) or ESRP 12.1-12.5 & 14.3.8
NRC Task Order Project Officer (PO) Karen Chapman (301) 415-3653 karen.chapman@nrc.gov		
NRC Technical Monitor (TM) Edward Roach (301) 415-1973 edward.roach@nrc.gov Stephen Williams (upon certification) (301) 415-6498 stephen.williams@nrc.gov DCIP/CHPB		

### 1.0 **BACKGROUND**

On or about September 1, 2008, Detroit Edison Energy plans to submit an application for a combined license (COL) for ESBWR/Fermi. The purpose of this Task Order is to obtain the necessary technical assistance to support the NRC staff in determining whether or not the subject COL application meets appropriate regulatory requirements.

Combined licenses (COL) applications are submitted pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR), Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants." The U.S. Nuclear Regulatory Commission (NRC) reviews these requests based on information furnished by ESP, DC and COL applicants pursuant to 10 CFR 52.79, "Contents of Applications Technical Information."

The NRC staff has prepared NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," to provide guidance to the staff in performing safety reviews of COL applications and standard designs and sites for nuclear power plants. The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews.

The NRC staff has also prepared NUREG-1555, "Standard Review Plans for Environmental Reviews for Nuclear Power Plants," to provide guidance to the staff performing environmental reviews of applications relating to nuclear power plants. The ESRPs are companions to regulatory guides that address siting and environmental issues. As with NUREG-0800, the purpose of the ESRP is to assure the quality and uniformity of environmental reviews.

The staff publishes the results of these reviews in a Safety Evaluation Report (SER) or an Environmental Safety Evaluation Report (ESER).

This task order involves the review of the radiation protection program described in the application. The operation radiation protection program includes the organization; the equipment, instrumentation and facilities; the procedures and the program description used in implementing all aspects of radiation protection at the plant.

The purpose of the program is to maintain occupational radiation exposures (ORE) as low as is reasonable achievable (ALARA), protect personnel from surface and airborne contamination, and maintain control over radioactive materials and radwaste. Review and assess that sampling and analysis capabilities, radiochemistry laboratory, instruments for measuring radiation or radioactivity, personnel monitoring instruments, personnel protection equipment, radiation protection support facilities or areas, and special shields and equipment are in compliance with SRP acceptance criteria and 10 CFR 20.1101, as it relates to the radiation protection program and ALARA.

The review includes system piping and instrumentation diagrams (P&IDs), plant drawings and figures and process flow diagrams showing methods of operation, and Radiation protection training and retraining programs. In addition, implementation of Regulatory Guides 1.8, 1.39, 8.2, 8.7, 8.8, 8.9, 8.10, 8.13, 8.15, 8.20, 8.25, 8.26, 8.27, 8.29, 8.32, 8.34, 8.35, 8.36, and 8.38, or proposed alternatives.

Additional background information may be found in Section C.1. of the basic contract award document.

## **2.0 OBJECTIVE**

The objective of this task order is to obtain technical expertise from the contractor to assist the staff in determining whether the application meets appropriate regulatory requirements.

The primary deliverable, or output, of this regulatory review shall be the Technical Evaluation Report (TER). The TER will serve as input to the NRC staff's SER which will document the NRC's technical, safety, and legal basis for approving the application. The TER must provide sufficient information to adequately explain the NRC staff's rationale for why there is *reasonable assurance* that public health and safety is protected. The TER, and ultimately the SER, 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 TER shall be prepared using the NRC-provided format. The TER format is provided in Attachment 1 to this Task Order Statement of Work (SOW).

The initial task, which is optional, will be to perform an Acceptance Review of the Combined License Application (COLA) to determine the completeness and technical sufficiency of the combined license application. This includes evaluating the technical sufficiency of the application to identify major deficiencies that might impact the review process or affect the planned resources and schedule. This review will be conducted consistent with Office Instruction NRO-REG-100, "Acceptance Review Process for Design Certification and Combined License Applications", [ML071980027], sections 3.2.1, 3.2.3, and Attachment C. This acceptance review will be documented in the table, columns 1-6, 10 and 11, provided in attachment 2 to this Task Order Statement of Work (SOW). The technical monitor will provide direction through the Project Officer if this task is to be performed.

Following the acceptance review, the contractor will review the application on behalf of and under the purview of the Construction Health Physics Branch (CHPB). The contractor has primary review responsibilities for the following SRP sections:

- 12.1 Assuring that Occupational Radiation Exposures are as Low as is Reasonably Achievable
- 12.2 Radiation Sources
- 12.3 Radiation Protection Design Features
- 12.4 Dose Assessment
- 12.5 Operational Radiation Protection Plan

#### 14.3.8 Radiation Protection ITAAC

In addition, the contractor will review applicable CHPB generic issues including NRC Bulletins and Generic Letters, TMI action Items, Task Action Plan, and New Generic Issues. For passive plants, the contractor will review the applicable Regulatory Treatment of Non-Safety systems (RTNSS).

### 3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks/Standards	Scheduled Completion	Deliverables
<p>1. REQUIREMENT: CHPB primary review responsibilities:</p> <p>Sections 12.1 – 12.5, and associated references of the SRP, ESBWR DCD and North Anna R-COLA. Also, Section 14.3.8 of the SRP, and Environmental Report section 4.5.</p> <p>CHPB secondary review responsibilities:</p> <p>Sections 1.0, 2.3, 9.4, 11.2, 13.3, 13.4, 14, 16, 17, 13, 9.3.2, and associated references of the SRP, ESBWR DCD, and North Anna R-COLA.</p> <p>STANDARD: Written confirmation that familiarization is complete.</p> <p>The level of effort for Task 1 is based on the volume of materials to be reviewed; this task is for familiarity and not for evaluation.</p>	* 30 days after authorization of work	Documentation that assigned personnel have reviewed references.
<p>2. REQUIREMENT: Participate in an orientation/kick-off meeting with the NRC staff to discuss the scope of the work, expectations and task order management.</p> <p>STANDARD: Attendance by individuals designated by NRC.</p>	* 10 days after authorization of work	N/A
<p>3. REQUIREMENT (Optional): Review the application to support staff's acceptance review to determine the completeness and technical sufficiency of a combined license application. This includes identifying major deficiencies in the application that might impact the review process or affect the planned resources and schedule.</p> <p>STANDARD: Written documentation that review is complete.</p>	* 15 days after receipt of application	Acceptance review results documented in Attachment 2

Tasks/Standards	Scheduled Completion	Deliverables
<p>4. <b>REQUIREMENT:</b> Review the COL application Sections 9.3.2, 12.1 through 12.5, and 14.3.8 to determine the adequacy of the application described in those sections. Determine if the methods and approach proposed by the applicant meet the appropriate review guidance. Identify issues and those aspects of the application that need additional or clarifying information, RAIs. Prepare a Technical Evaluation Report (TER). The contractor will periodically meet with the TM to discuss DCD and RCOL issues and progress to facilitate this SCOL review. The TM will communicate RAIs and RCOL Open Items related to this review.</p> <p><b>NOTE:</b> The contractor's review will likely focus on site-specific information provided by applicant when the SCOL is standardized with the RCOL for this reactor design.</p> <p><b>STANDARD:</b> Completed TER that follows the NRC provided template without deviation. No deviation from the guidance defined in Section III, RAI Guidance of Attachment 1 to the basic contract SOW. Typically, no more than two (2) rounds of comment incorporation are acceptable.</p>	<p>* 90 days after NRC official review is authorized</p>	<p>TER, and RAIs if applicable</p>
<p>5. <b>REQUIREMENT:</b> Review responses to the RAI questions to determine if they adequately resolve the outstanding issues. Identify any other open items. Prepare a TER providing the input to the SER with open items (SER/OI).</p> <p><b>STANDARD:</b> Complete TER with open items</p>	<p>* 30 days after receipt of the responses.</p>	<p>Revised TER with open items</p>
<p>6. <b>REQUIREMENT:</b> Review the applicant's response to the open items identified in the SER/OI. Identify any unresolved issues. Prepare a TER providing the input to the final SER describing the resolution to the open items.</p> <p><b>STANDARD:</b> Complete TER that follows the NRC provided template without deviation.</p>	<p>*45 days after receipt of responses to OIs</p>	<p>SER input with open items resolved</p>
<p>7. <b>REQUIREMENT:</b> Prepare final supplement with no open items.</p> <p><b>STANDARD:</b> Supplement reviewed and approved by NRC staff.</p>	<p>10 days following ACRS review of supplement</p>	<p>Final supplement.</p>

Tasks/Standards	Scheduled Completion	Deliverables
<p>8a. REQUIREMENT: <i>(If applicable)</i> Prepare for and travel to the applicant's office and participate in an NRC review team to:</p> <ul style="list-style-type: none"> <li>a) Audit the application as described in the COL for Fermi.</li> <li>b) Evaluate and discuss the applicant's responses to the unresolved issues identified in Task 4 to determine if the outstanding issues are adequately resolved.</li> <li>c) Prepare a trip report (as an input to NRC Audit Report) to summarize the information reviewed, results of the audit, and meeting discussions.</li> </ul> <p>STANDARD: Complete evaluation as defined in Task. Submit Trip Report within 2 weeks of site review.</p>	*2 weeks after the trip	Trip Report
<p>8b. REQUIREMENT: <i>(If applicable)</i> Prepare for and travel to the applicant's site and participate in the environmental site audit to:</p> <ul style="list-style-type: none"> <li>d) Identify and resolve any inconsistencies between the applicant's ER and FSAR with regard to Dose to Construction Workers (ER section 4.5 and FSAR Section 12.4)</li> </ul> <p>STANDARD: Submit a Trip Report within 2 weeks of site audit.</p>	*2 weeks after the trip	Trip report
<p>8c. REQUIREMENT: As needed and requested by the staff, provide technical support to the staff during related ACRS meetings and hearing proceedings.</p> <p>STANDARD: Ensure presentation materials are reviewed and approved by NRC staff.</p>	TBD	Prepare presentation materials. Attend meetings, if requested.

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

The Technical Monitor may issue technical instruction from time to time throughout the duration of this task order. Technical instructions must be within the general statement of work delineated in the task order and shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. The contractor shall refer to Section G.1 of the base contract for further information and guidance on any technical directions issued under this task order.

Any modifications to the scope of work, cost or period of performance of this task order must be issued by the CO and will be coordinated with the NRO Project Officer.

#### **4.0 TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED**

As specified in the basic task ordering agreement, the contractor shall provide individuals who have the required educational background and work experience to meet the objectives of the work specified in this task order. Specific qualifications for this effort include:

1. Formal education and training in nuclear engineering, applied health physics, or radiological engineering and at least seven years direct nuclear power plant related experience.
2. Ability to verify that management policies, operations, organizational structure and practices, and equipment and facility design features are used to maintain occupational radiation exposures as low as reasonably achievable (ALARA) as defined in 10 CFR 20.1003 and to ensure that all personnel doses do not exceed requirements of 10 CFR Part 20.
3. Knowledge of implementation of Regulatory Guide 8.8 on facility equipment design and layout.
4. Ability to assess the validity of source term descriptions and radiation zone designations.
5. Knowledge of methods used to minimize contamination of the facility and environment as well as minimize waste generation for the purpose of facilitating eventual decommissioning as described in 10 CFR 20.1406.
6. Knowledge of the personnel radiation protection features incorporated in ventilation system designs.
7. Ability to assess the various radiological impacts and dose contributions (from direct radiation and from liquid and gaseous effluents from adjacent plants) to the project construction work force.
8. Knowledge of fixed area radiation and airborne radioactivity monitoring instrumentation including in-containment high-range radiation monitors, special nuclear material radiation monitors and continuous airborne monitors used for normal operation, anticipated operational occurrences and accident conditions.
9. Expertise in the criteria and methods used for obtaining representative in-plant airborne radioactive concentrations in work areas.
10. Ability to use shielding calculation codes available in the code description file of the Radiation Safety Information Computational Center at Oak Ridge National laboratory to verify COL applicant's methods of calculating dose rates for given shield designs and source strengths.
11. Ability to evaluate dose assessments performed in accordance with Regulatory Guide 8.19.
12. Skills must include setting up analyses and data input, running the code, and providing associated reports describing results and interpretation of results.



13. Demonstrate a working knowledge of NRC regulations and guidance, as they relate to occupational radiation protection during normal plant operations and anticipated operational occurrences. Demonstrate a working knowledge of NRC regulations under 10 CFR Parts 52 (Subparts A, B, and C); 10 CFR 50.36a; General Design Criteria of Appendix A to Part 50; pertinent requirements of Part 50.34(f); requirements of Appendix I to Part 50; Subpart H of 10 CFR Part 71 as it relates to quality assurance programs; 10 CFR Parts 19 and 20 as they relate to occupational radiation protection; 10 CFR Part 20 and 10 CFR 71.5 and Subpart G as they relate to securing, transferring and controlling licensed material. Demonstrate a working knowledge or understanding of NRC regulations and guidance (as described in the referenced Regulatory Guides) described in SRP Sections 12.1 to 12.5 as pertinent parts of Section 14.3.8 (NUREG-0800, March 2007), ESRP Section 4.5 (NUREG-1555, October 1999), and pertinent sections of Regulatory Guide 1.206.

The contractor shall provide a contractor project manager (PM) or environmental project team leader (PTL) 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.

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 (principal investigators, technical staff, employees, consultants, specialists or subcontractors) 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 task order 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.

## **5.0 REPORTING REQUIREMENTS**

### **Task Order Progress Report**

The contractor shall provide a bi-weekly progress report summarizing accomplishments, expenditures, contractor staff hours expended, percent completed for each task under this task order, and any problems encountered by the contractor. The report shall be sent via e-mail to the NRC TM, TAPM and CO.

Please refer to Section F of the basic contract award document for contract reporting requirements.

### **Technical reporting requirements**

Unless otherwise specified above, the contractor shall provide all deliverables as draft products. The NRC TM will review all draft deliverables (and coordinate any internal NRC staff review, if needed) and provide comments back to the contractor. The contractor shall revise the draft deliverable based on the comments provided by the TM, and then deliver the final version of the deliverable. When mutually agreed upon between the contractor and the TM, the contractor may submit preliminary or partial drafts to help gauge the contractors' understanding of the particular work requirement.

The contractor shall provide the following deliverables in hard copy and electronic formats. The electronic copy shall be provided in Word format or other word processing software approved by the TM. For each deliverable, the contractor shall provide an electronic copy to the TM and TAPM, and one hard copy to the TM. The schedule for deliverables shall be contained in the

approved project plan for the task order effort.

In all correspondence, include identifying information: JCN No.: Q4013; Task Order No.: 32; Technical Assignment Control No. (TAC): RX0544; the applicant: Detroit Edison Energy Nuclear; and, the site: Fermi Station.

1. At completion of Task 3, submit a TER that contains, for each Sub-section of the SER (see Attachment 1 for the outline, format and content of the report): a description of the information proposed by the applicant including the assumptions for the analysis, design, and references to consensus standards: review findings (including the basis for the findings), as a result of comparison with the review guidelines: and a list of deficiencies from completion of Table 1 of Attachment 2 to this Task Order.
2. At the completion of Task 4, submit a TER that contains, for each Sub-section of the SER, a description of the information proposed by the applicant including the assumptions for the analysis, design, and references to consensus standards: review findings (including the basis for the findings), as a result of comparison with the review guidelines: and a list of "Requests for Additional Information (RAIs). See Attachment 1 in the base contract SOW for the guidelines for developing RAIs.
3. At the completion of Task 5, submit a TER (see Attachment 1) that contains a summary of the review results and the updated report completed under Task 4 incorporating the findings from the resolution of the RAIs. Include a separate list of the remaining open items and the basis for such determination.
4. At the completion of Task 8a, submit a trip report, as an input to NRC audit report, containing a summary of documents audited, the audit results of the design reports and design calculations, a summary of meeting discussions conducted with, the applicant list of outstanding issues, significance of these issues, and the basis for the conclusion. Incorporate the findings in the report developed under Task 4.
5. At the completion of Task 6, submit a TER (see Attachment 1) that contains a safety evaluation report with open items resolved and update of the TER developed under Task 5.

## **6.0 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 contractor PM. Travel in excess of the total number of person-trips must be approved by the NRC Contracting Officer (CO); travel within the work scope limits will be approved by the NRC TAPM.

- One, 3-person, 1-day working meeting to kickoff project and contractor orientation\*
- Up to 10, 2-person, half-day working meetings to review and update contractor on RCOL and DCD progress, status, RAIs and open items. (at least 3 to be held face to face)
- One, 1-person, 2-day meetings to participate in the Environmental Site Audit
- One, 2-person, 2-day working meetings at NRC headquarters to review deliverables\*

- One, 2-person, 2-day meetings, if needed, for hearing or ACRS meeting.

At the discretion of the NRC TM, quarterly progress meetings may be conducted at the contractor or via telephone or video conference.

## 7.0 NRC FURNISHED MATERIAL

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

- CD-ROM containing SCOL Sections and the relevant Appendices from the SCOL application.
- CD-ROM containing the Final Safety Evaluation Report of the DCD.
- CD-ROM containing RCOL Sections and the relevant Appendices from the RCOL application.

## 8.0 LEVEL OF EFFORT

The estimated level of effort in professional staff hours apportioned among the subtasks and by labor category for the SCOL is as follows:

Task(s)	Labor Category	Level of Effort FY2008 (hours)	Level of Effort FY 2009 (hours)	Level of Effort FY 2010 (hours)	Level of Effort FY 2011 (hours)
1	Health Physics Technical Reviewer	40	120	40	0
2	Health Physics Technical Reviewer	16	0	0	0
3	Health Physics Technical Reviewer	0	66	0	0
4.1	Health Physics Technical Reviewer (12.1)	0	16	0	0
4.II	Health Physics Technical Reviewer(12.2)	0	16	0	0
4.III	Health Physics Technical Reviewer(12.3-4)	0	40	0	0
4.IV	Health Physics Technical Reviewer(12.5)	0	40	0	0
5	Health Physics Technical Reviewer	0	0	80	0
6	Health Physics Technical Reviewer	0	0	180	40
7	Health Physics Technical Reviewer	0	0	0	48

Task(s)	Labor Category	Level of Effort FY2008 (hours)	Level of Effort FY 2009 (hours)	Level of Effort FY 2010 (hours)	Level of Effort FY 2011 (hours)
8	Health Physics Technical Reviewer	0	120	50	40
All	Project Manager	10	45	20	30
<b>Total</b>		66	463	370	158

## 9.0 PERIOD OF PERFORMANCE

The projected period of performance is 30 months from authorization of work.

## 10.0 OTHER APPLICABLE INFORMATION

### License Fee Recovery

- All work under this task order is fee-recoverable under 10 CFR Part 170 and shall be charged to the appropriate TAC number(s).

### Assumptions and Understandings:

- The level of effort for Task 1 is based on the volume of materials to be reviewed; this task is for familiarity and not for evaluation.
- It is assumed that the contractor has access to the NRC furnished material available on the Internet.
- It is understood that the scope of the review consists of conference calls with the NRC staff, and with the NRC staff and the applicant, to discuss open items in an attempt to obtain additional information or reach resolution.
- During the course of the review, the Technical Monitor, and possibly other NRC personnel, may travel to the contractor site to discuss the status of the review and participate in the resolution of open items. It is assumed that the level of effort covers such a meeting.

Attachments: REFER RFP FOR ATTACHMENTS

1. Outline, format, and sample content for the TER (draft SER) Input. Sample Generic Safety Evaluation Report for PWR/BWR COL, chapter 12

2: Acceptance Criteria Checklist. From NRO Office Instruction, NRO-REG-100, "Acceptance Review Process for Design Certification and Combined License Applications", [ML071980027], Attachment C, Table 1

3. Detailed Review Criteria and Regulatory Guidance for SRP Sections 12.1 – 12.5, for use with COLA sections which are not incorporated by reference from the RCOLA.