

INTERAGENCY AGREEMENT		1. IAA NO. NRCHQ2512D0004-T018/M0004		PAGE 1 OF 2	
2. ORDER NO.		3. REQUISITION NO.		4. SOLICITATION NO.	
5. EFFECTIVE DATE 08/21/2014		6. AWARD DATE 08/21/2014		7. PERIOD OF PERFORMANCE 12/21/2012 TO 06/30/2017	
8. SERVICING AGENCY PACIFIC NORTHWEST NAT LAB ALC: DUNS: +4: US DEPARTMENT OF ENERGY PACIFIC NORTHWEST SITE OFFICE PO BOX 350 MS K9-42 RICHLAND WA 99352 POC Genice Madera TELEPHONE NO. 509-372-4010		9. DELIVER TO TOMEKA TERRY MAIL STOP TWFN 6-C32 11555 ROCKVILLE PIKE ROCKVILLE MD 20852			
10. REQUESTING AGENCY ACQUISITION MANAGEMENT DIVISION ALC: 3100001 DUNS: 040535809 +4: US NUCLEAR REGULATORY COMMISSION ONE WHITE FLINT NORTH 11555 ROCKVILLE PIKE ROCKVILLE MD 20852-2738 POC Jeffrey R. Mitchell TELEPHONE NO. 301-287-0955		11. INVOICE OFFICE US NUCLEAR REGULATORY COMMISSION ONE WHITE FLINT NORTH 11555 ROCKVILLE PIKE MAILSTOP 03-E17A ROCKVILLE MD 20852-2738			
12. ISSUING OFFICE US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP 3WFN-05-C64MP WASHINGTON DC 20555-0001		13. LEGISLATIVE AUTHORITY Energy Reorganization Act of 1974			
		14. PROJECT ID QPC04			
		15. PROJECT TITLE BELL BEND COL ENVIRONMENTAL REVIEW			
16. ACCOUNTING DATA No Funds Obligated					
17. ITEM NO.	18. SUPPLIES/SERVICES	19. QUANTITY	20. UNIT	21. UNIT PRICE	22. AMOUNT
	NRCHQ2512D0004 Task 18 Modification No. 4 Master IAA: NRCHQ2512D0004 The purpose of this modification is to (1) increase resources and effort in the areas in surface water and groundwater hydrology as a result of issues uncovered in the hydrology review, the draft Environmental Impact Statement (EIS) and related work was delayed, (2) accept PNNL's proposal, dated July, 24, 2014, (3) increase the authorized cost ceiling by \$213,210.00 from \$3,249,100.00 to \$3,462,310.00, and (4) extend the period of performance from Continued ...				
23. PAYMENT PROVISIONS		24. TOTAL AMOUNT \$0.00			
25a. SIGNATURE OF GOVERNMENT REPRESENTATIVE (SERVICING)		26a. SIGNATURE OF GOVERNMENT REPRESENTATIVE (REQUESTING)			
25b. NAME AND TITLE		25c. DATE		26b. CONTRACTING OFFICER JEFFREY R. MITCHELL	
				26c. DATE 8/21/2014	

September 30, 2015 to June 30, 2017.

Accordingly the Agreement is modified as follows:

Refer to the "Statement of Work" is hereby deleted in its entirety and replaced with the following Statement of Work attached to this Modification No. 4 entitled "Statement of Work Rev No. 1."

The new Authorized Cost Ceiling is \$3,462,310.00.

The Period of Performance is as follows: December 21, 2012 through June 30, 2017

Attachment No. 1: Statement of Work Rev No. 1
PNNL's proposal dated July 24, 2014 is incorporated by reference.

All other terms and conditions remain unchanged.

NRC Reference ZEROREQ-NRO-14-0104

STATEMENT OF WORK (Revision No. 1)

JCN QPC04	Laboratory Pacific Northwest National Laboratory	Task Order No. 18
Applicant PPL Bell Bend, LLC	Design/Site U.S. EPR/Bell Bend	Docket No. 52-039 (If fee recoverable)
Title/Description Bell Bend COL – Environmental Review		
TAC No. RX0341	B&R Number 2012-25-17-4-107	SRP Section(s) or ESRP NUREG -1555
BOC Code 251D	NAICS Code 541990	Office of New Reactors (NRO) Division of New Reactor Licensing
NRC Contracting Officer Representative-Technical (COR-T) Tomeka Terry 301-415-1488 Tomeka.Terry@nrc.gov		

1.0 BACKGROUND

Early site permits (ESP), standard design certifications (DC) and combined licenses (COL) applications are submitted pursuant to Title 10 of the *Code of Federal Regulations* (CFR), Part 52, Licenses, Certifications, and Approvals 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 parts 51 and 52.

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 Standard Review Plan is to assure the quality and uniformity of staff safety reviews.

As part of an ESP and COL application, the applicant submits an Environmental Report (ER). The NRC reviews the ER for conformity with the National Environmental Policy Act of 1969, as Amended, specifically implemented by 10 CFR Part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions."

To provide guidance to the NRC staff performing new reactor environmental reviews, the NRC staff has also prepared NRC 1998, Regulatory Guide 4.7, (Rev. 2) – "General Site Suitability Criteria for Nuclear Power Stations" and NUREG-1555, "Standard Review Plans for Environmental Reviews for Nuclear Power Plants." The Environmental Standard Review Plan (ESRP) is companion to regulatory guides that address siting and environmental issues. The purpose of the ESRP is to assure the quality and uniformity of environmental reviews. The staff publishes the results of these reviews in an Environmental Impact Statement (EIS).

As part of Task Order 41 under JCN Q-4007, Pacific Northwest National Laboratory (PNNL) provided technical assistance related to the review of the environmental portion (Part 3) of the Bell Bend combined license (COL) application. Under TO-41, the following tasks were completed: scoping process and scoping meetings were held and a scoping summary report was issued; a supplemental scoping process was held and a supplemental

scoping summary is being developed; pre-audit version of the draft environmental impact statement (EIS) was prepared; a site audit and two alternative site audit were conducted; a supplemental site audit was held due to a revised site layout; requests for additional information (RAIs) were submitted to the applicant; and post-audit revisions to the working draft EIS were made. PNNL continues to develop the preliminary draft EIS, which is scheduled for submission to the NRC in the latter half of **July 2014**. Major milestones associated with the work remaining for the Bell Bend COL environmental review are as follows: completion and publication of the Draft Environmental Impact Statement (DEIS) – **April 2015**; public meeting for the DEIS – **May 2015**; binning of DEIS comments; preparation of the Final Environmental Impact Statement – **March 2016**; and preparation and participation in any contested hearings as needed and a mandatory hearing before the Commission – TBD.

Due to the issues uncovered in the hydrology review, the draft EIS and related work was delayed. Several rounds of requests for additional information (RAI) were written and submitted to the applicant, along with site water audit, to assist in resolution of this issue.

This contract is being modified to include the resource areas in surface water and groundwater hydrology. Two subject matter experts should be added to in order to cover these areas. An increase in level of effort was provided in Table 1, but no other changes (i.e. schedule or process) were made.

Additional background information may be found in the laboratory new reactors basic task ordering agreement.

2.0 CONFLICT OF INTEREST

The conflict of interest provisions specified in the laboratory basic task ordering agreement apply to this task order. Regarding the use of subcontractors, Section 170A of the Atomic Energy Act of 1954 (as amended), organizational conflict of interest (OCOI) requirements govern U.S. Department of Energy laboratory agreements for performance of NRC projects and apply to subcontracts and consulting agreements hereunder (48 CFR 2009.570-2 "Contractor"). In this regard, the laboratory understands that NRC is to be provided with disclosures regarding potential OCOIs when the NRC obtains technical, consulting, research and other support services. Accordingly, any potential subcontractor shall review and promptly provide to the laboratory for the laboratory's transmittal to the NRC, disclosures for the subcontractor's current work, planned work and past work for non-NRC entities, (i) in the same technical area, or (ii) on the same or similar matter, as the NRC project scope of work. Non-NRC entities include but are not limited to, NRC licensees, vendors, industry groups or research institutes that represent or are substantially comprised of nuclear utilities. In addition, disclosures shall also be provided by the subcontractor for any concurrent and contemplated work for PPL Bell Bend, LLC. Each disclosure for NRC review shall include a copy of an official scope of work/purchase order, the dollar value of the work, and the period of performance. It is understood that NRC shall make all determinations concerning OCOI.

3.0 OBJECTIVE

The objective of this task order is to obtain technical expertise from the laboratory to assist the NRC staff in the review of PPL's Bell Bend COL application. Specifically, the staff focus, under this task order, is the applicant's environmental report submitted as part of the COL application. Thus, the technical services sought will be sufficient to assist the staff in the review of the environmental impacts associated with the construction and operation of the proposed new nuclear power at the proposed site and develop an environmental impact statement (EIS) in accordance with National Environmental Policy Act (NEPA), 10 CFR 51, and 10 CFR 50.10. This task order also seeks technical support for the review of potential contentions on the applicant's ER and the staff's draft EIS, including support to any contested and/or mandatory hearings associated with the licensing proceeding where expert testimony may be required.

The selected managerial and technical experts will be considered the lead laboratory and expected to participate on a multidisciplinary team with another NRC contractor if necessary. The lead's responsibilities and expectations include the following: administrative and managerial role for document development and

record controls, maintain the position of Project Team Leader (PTL), coordination and incorporation of additional NRC contractors input as needed. All team members' assignments will begin upon the awarding of the contract. The PTL is expected to coordinate effectively with the NRC staff on the environmental review schedule throughout the duration of the project. The details of the environmental review are delineated into subtasks described in Section 4.0 below. In addition, PNNL will provide substantial assistance in the form of mentoring in developing surface water hydrology of the environmental impact statement.

The objective of this modification is to add resources areas and increase the level of effort due to unanticipated complexities of the project associated with hydrology section of the review.

In addition to the NRC Contracting Officer Representative – Administrative (COR - Administrative), the NRC has designated an **Environmental Project Manager (EPM), Ms. Tomeka Terry**. The EPM for this activity is also the Contracting Officer Representative - Technical (COR – Technical) and these terms may be used interchangeably.

4.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Table 1 – Requirements and Deliverables

Work Breakdown Structure	Tasks/Standards	Previous SOW Task #	Scheduled Completion	Deliverables
2.0 Project Administration	<ol style="list-style-type: none"> 1. The PTL will oversee the review effort and coordinate with COR-T to ensure common understanding of work scope, timing of activities, and review progression. The TLs will work with lab program staff to facilitate accurate monthly letter status reports and project management performance reports providing the COR-T the necessary information for determining level of effort expended and the associated progress. Frequent and effective communication of any NRC direction, scope clarifications, schedule modifications; etc. to the team is expected. The PTLs will participate in program level orientations, training and meetings which are held to disseminate timely information concerning programmatic information or decisions. When necessary, work activities are adjusted along with any necessary schedule adjustments and appropriate parties are informed. 2. The PTL and Deputy Project Team Leader (DTL) will maintain the EARRTH project directory as the central repository of documents and other records necessary for the review. 	NEW	Throughout project.	Monthly Letter Status Reports as defined in Section 6.0 of this task order.

Work Breakdown Structure	Tasks/Standards	Previous SOW Task #	Scheduled Completion	Deliverables
<p>4.2.1 Prepare Preliminary DEIS</p> <p>4.2.3 DEIS Writing Session</p> <p>4.2.4 Deliver Camera ready DEIS</p>	<p>3. The Subject Matter Expert (SME's) will revise pre-audit DEIS based on the applicant's response to RAIs and submit to the PTL for final approval. The PTL will submit to the COR-T following internal review.</p> <p>4. Conduct writing session with NRC staff and revise preliminary DEIS to incorporate NRC reviewer comments.</p> <p>5. The review staff will work with technical editors to complete the DEIS and deliver the camera ready version to the COR-T. The PTL will communicate with NRC Technical Reviewers, if necessary, to finalize the DEIS after the camera ready DEIS is delivered.</p>	8	<p>18 days after the TO start date identified in the Period of Performance</p> <p>25 days after the completion of Task 3</p> <p>90 days after the completion of Task 4</p>	<p>Submit Preliminary DEIS.</p> <p>Submit camera ready version of DEIS to NRC.</p>

Work Breakdown Structure	Tasks/Standards	Previous SOW Task #	Scheduled Completion	Deliverables
5.0 Develop FEIS 5.1.2 DEIS Public Meeting 5.1.3.2 Bin DEIS Comments 5.1.3.3 Draft Responses to DEIS Comments	<p>6. The PTL will assist in the planning and provide support for the public meeting on the Draft EIS including placement of meeting advertisements. The COR-T will present the team findings and appropriate team members will participate to respond to questions during the presentation.</p> <p>7. The contractor team will support the COR-T in assembling sorting, and dispositioning comments received at the public meeting and during the public comment period.</p> <p>8. The review team will prepare initial responses to DEIS comments and interact with the NRC Technical Review team to resolve any discrepancies.</p>	9 and 10	<p>60 days after the completion of Task 5</p> <p>60 days after the completion of Task 6</p> <p>35 days after the completion of Task 7</p>	<p>Submit binning report.</p> <p>Submit draft response to comments.</p>
5.2 Draft input to FEIS 5.2.3 FEIS Writing Session	<p>9. The review team will revise DEIS as needed based on public and stakeholder comments; provide working draft of the revised pFEIS.</p> <p>10. The contractor team will host a writing session with NRC staff and revise preliminary FEIS based on NRC comments.</p> <p>11. After submitting the camera ready FEIS, the contractor team will communicate and resolve discrepancies with NRC technical reviewers as necessary.</p>	11 and 12	<p>40 days after the completion of Task 8</p> <p>50 days after the completion of Task 9</p> <p>90 days after the completion of Task 10</p>	<p>Submit preliminary FEIS.</p> <p>Submit camera ready version of FEIS to NRC.</p>

Work Breakdown Structure	Tasks/Standards	Previous SOW Task #	Scheduled Completion	Deliverables
6.0 Hearing Process 6.1 Hearing Support: Pre-FEIS 6.1.1 Hearing Support: Post-FEIS	12. The contractor team will support the COR-T in preparing for participation in hearing (including pre-hearing conferences and contributing to hearing files), if needed. 13. The contractor team will support the COR-T in post final EIS activities associated with providing written material for the NRC staff's SECY paper, and participating in the mandatory and contested hearings (including pre-hearing conferences, preparing testimony, attendance as witness).	13	Throughout project. 360 days following issuance of the final EIS for a contested hearing. 60-180 days following issuance of the final SER for the mandatory hearing.	Environmental issues paper to inform staff's SECY paper; attend mandatory hearing.
7.0 Post FEIS Support	14. The contractor team will support the COR-T in post-final EIS activities associated with the identification and analysis of any new and significant information.	New	Initiated by EnvPM when needed	

Note: These work schedules are subject to change by the NRC COR-T to support the fact of life project schedule changes resulting from technical process related project risks and issues caused by the review of the applicant's environmental project. However, the level of effort, deliverables, and contract costs shall be in accordance with the original contract criteria, except under those conditions where the scope of review needs to be modified due to review complexities.

The laboratory shall submit a cost estimate, and staffing plan within 10 days of receipt of this task order. The staffing plan should specifically reflect the services to be provided, and the laboratory shall also provide a statement of professional qualifications for staff proposed to work under this task order.

The Work Breakdown Structure for environmental review projects (Attachment 1) and a generic project plan/schedule (Attachment 2) are attached and should be used as guidance to the develop a cost estimate, staffing plan, and the project plan. The project plan and a project schedule shall be submitted by the laboratory within 25 days of NRC's acceptance of the laboratory's proposal.

5.0 TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

As specified in the basic task order agreement, the laboratory shall provide individuals who have the required educational background and work experience to meet the objectives of the work specified in this task order.

The laboratory shall provide a laboratory 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 the laboratory to qualify personnel assigned to this task order through a laboratory qualification and orientation program. Appendix A provides the criteria used by the lab for determining SME qualifications. The qualification and orientation program provides a process and documentation for qualifying and certifying laboratory staff to work on projects in support of NRC environmental and safety projects for new reactor licensing. The SMEs will be assigned the technical lead for a specific technical area for reviews and the development of an EIS. They will be required to participate in the mandatory hearing process in front of the NRC Commissioners or the Atomic Safety and Licensing Board (ASLB) as a fact witness related to the confirmatory analysis in the EIS document or the safety evaluations.

Technical areas of the EIS that may require a SME include the following:

- Air Quality, Meteorology
- Health Physics, Decommissioning, Uranium Fuel Cycle, Waste Systems
- Non-rad Human Health
- **Surface Water Hydrology**
- **Groundwater Hydrology**
- Hydrology Modeling (CORMIX and any other modeling as needed)
- Aquatic Ecology
- Terrestrial Ecology
- Socioeconomics, Environmental Justice, Cost-Benefit Balance
- Alternative Energy Sources
- Alternative Sites
- Need for Power

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 COR-T's approval. This includes any proposed changes to key personnel during the life of the task order.

6.0 REPORTING REQUIREMENTS

Monthly letter status report

The laboratory shall submit monthly letter status reports (MLSR) as specified in Attachment 7 within the basic task ordering agreement. The laboratory shall issue each MLSR including a total of the month ending (or billing cycle) costs no later than the 20th of the month. The MLSR shall be provided via e-mail to:

- NRC Contracting Officer Representatives (CORs) –Technical and Administrative

With copies to the following:

- Office of Administration/Division of Contracts (electronic copy only) to
ContractsPOT.Resource@nrc.gov
- NRO_MLSRs@nrc.gov

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 laboratory shall submit monthly an updated version of the Electronic Spending Plan (ElecSP). The monthly update of the ElecSP shall be submitted once the contractor and NRC COR-T for this task order have agreed to the update. The spending plan should reasonably reflect spending when the work is actually scheduled by the NRC COR-T, the NRC COR-A, for this TO. The ElecSP should reflect the planned spending over an 18 month rolling period of time. The planned and revised spending plans should not be changed to reflect what was actually spent during the month of execution. The spending plan should reflect when the spending will occur on the planned project tasks as specified by the project schedule and as reported in the PMPR. In addition, the ElecSP submission shall form the basis for the spending plan in the MLSR. The ElecSP will be updated monthly and submitted to the NRC COR-T for this TO and their designated NRC management, concurrently with the submission date for the MLSR. There shall be an ElecSP for each TO. If changes and updates are needed at the interim period, the laboratory shall, after consultation with the COR – Technical note that in the Log sheet and then make the changes in the ElecSP sheet.

Technical reporting requirements

Unless otherwise specified above, the laboratory shall provide all deliverables as draft products. The NRC COR-T will review all draft deliverables (and coordinate any internal NRC staff review, if needed) and provide comments back to the laboratory. The laboratory shall revise the draft deliverable based on the comments provided by the COR-T, and then deliver the final version of the deliverable. When mutually agreed upon between the laboratory and the COR-T, the laboratory may submit preliminary or partial drafts to help gauge the laboratory's understanding of the particular work requirement.

The laboratory shall provide the following deliverable in hard copy (upon request) and electronic formats. The electronic format shall be provided in MS Word or other word processing software approved by the COR-T. For each deliverable, the laboratory shall provide one hard copy (upon request) and electronic copy to both the PM and the COR-T. The schedule for deliverables shall be contained in the approved project plan for the task order effort.

In all correspondence, include identifying information: Agreement No.:NRC-HQ-25-12-D0004____; JCN No.: 01PC01____; Technical Assignment Control No. (TAC), if applicable,: _____;Task Order No.: 18 ____; the licensee: PPL Bell Bend, LLC and, the site: Bell Bend.

Communications with the NRC and among laboratory staff may be subject to hearing file requirements under 10 CFR Part 2. In this circumstance, the COR-T will identify the type of records that must be provided to the NRC for inclusion in the hearing file.

7.0 PERFORMANCE STANDARDS

Laboratory 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 laboratory's success in meeting the schedule, milestones and deliverable requirements of the preceding task orders.

8.0 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 COR-T after discussion with the laboratory PM (and PTL). Travel in excess of the total number of person-trips must be approved by the NRC COR-A; travel within the work scope limits will be approved by the NRC COR-T.

One (1), four-person, four-day trip to Berwick, Pennsylvania to conduct the public meeting on draft EIS. Key laboratory environmental personnel involved in socioeconomic and hydrology (~~surface and ground water~~) assessments for a public meeting near the site to provide insight to members of the public to assist them in providing comments on the draft EIS. Additional key laboratory environmental personnel may be needed for trip but, the decision will be left to the discretion of the NRC EPM.

One (1), four-person, four-day working meeting to conduct training/dry runs for the mandatory hearings at NRC headquarters

One (1), four-person, four-day meeting to participate in the mandatory hearing (NRC headquarters or designated meeting location).

One (1), four-person, four-day meeting to conduct training/dry runs for the contested hearing at NRC headquarters, if needed.

One (1), four-person, four-day meeting to participate in the contested hearing (NRC headquarters or designated meeting location), if needed. *

*At the discretion of the NRC COR-T, meetings may be conducted at the laboratory or via telephone or video conference.

9.0 NRC FURNISHED MATERIAL

The NRC COR-T will provide those NRC documents related to the applicable portions of the application (for example, the Environmental Report) that are readily available. The NRC COR-T will provide access to the applicant's environmental report, safety analysis report, pertinent sections of the COL, DC, or other NRC safety documents and docketed correspondence on related issues. The laboratory staff will identify any additional NRC documentation that is needed and the COR-T will determine whether it will be provided by the NRC or obtained directly by the laboratory from NUDOCS, ADAMS, NRC public document room or the NRC website at www.nrc.gov.

10. OTHER APPLICABLE INFORMATION

License Fee Recovery

- Pursuant to the provisions on fees of 10 CFR Parts 170 and 171, provide the total amount of funds costed during the period and cumulative to date for each task/task order by facility. The License Fee Recovery Status Report must be reported in accordance with MD 11.7.

Expected Classification or Sensitivity

\$ All work under this project is expected to be unclassified and not sensitive.

Assumptions and Understandings (Technical Assumptions Only)

\$ The level of effort for **Tasks 6, 7 and 8** is based on the assumption 300 comments are received on the DEIS.

- § The level of effort for **Task 1 through 14** is based on the assumption that the laboratory is familiar with the review procedures of ESRP NUREG-1555, Regulatory Guides 4.2, 4.7, 4.8 and 4.11, NRC and NEPA regulations.
- § It is assumed that the laboratory 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 COR-T, and possibly other NRC personnel, may travel to the laboratory site to discuss the status of the review and participate in the resolution of open items or preparation for mandatory hearing. It is assumed that the level of effort covers such a meeting.
- § The level of effort for Task 14 (Post-FEIS Efforts) assumes that the team lead and 1-2 key staff, upon request by the COR-T, would assist with the evaluation of new and potentially significant information.

APPENDIX A

Subject Matter Expert Qualifications		
Qualification Area	Qualification Element	Requirements
Education and Experience (equivalent qualifications may be approved by the Laboratory Program Manager or the NRC)	Education	Advanced technical degree in engineering or science in the appropriate technical specialty or equivalent combination of education and experience.
	General Experience (Yrs)	Staff members will be considered SMEs if they are nationally and/or internationally known, possess an engineering or scientific degree or equivalent experience and a minimum of 5 years experience directly related to the nuclear power industry or other major industry with similar regulatory issues, or have actively participated and completed reviews for safety or environmental licensing activities for nuclear reactors.
	NRC/NEPA Experience	5 years experience working with NRC NEPA program or other NRC related projects. Other NEPA experience desirable. In absence of this experience, a mentor will be assigned to the SME
Program-Specific Orientation (alternative orientation may be approved by the Laboratory Program Manager and the NRC)	Program Specific Orientation Modules	NRC-101, NRC-102, NRC-103
	Shadowing/ Mentoring Experience	Previous experience as a technical lead on License Renewal and/or ESP Applications, or shadowing on an ESP or COL application or pre-application.
	Reading Assignments	TBD by the Laboratory Program Manager or Orientation Task Leader
Certification Exam (exceptions may be approved by the Laboratory Program Manager and/or the NRC Program Manager)	Test & Certification by Lab and/or NRC Program Managers	Required –Certification Exam