AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	BPA NO.	1. CONTRACT ID CODE	PAGE 1 OF 2

2. AMENDMENT/MODIFICATION NO	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ NO	5. PROJECT NO.(If applicable)
M010	See Block 16c	NRO-12-146	

6. ISSUED BY CODE 3100	7. ADMINISTERED BY (If other than Item 6) CODE 3100
U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Matthew J. Bucher-301-492-3485 Mail Stop: TWB-01-B10M Washington, DC 20555	U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop: TWB-01-B10M Washington, DC 20555

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	
INFORMATION SYSTEMS LABORATORIES, INC ISL ATTN: DR. JAMES F. MEYER 11140 ROCKVILLE PIKE, SUITE 500 ROCKVILLE MD 20852		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT/ORDER NO NRC-42-08-064 NRC-T004 10B. DATED (SEE ITEM 13) 02-13-2009
CODE 107928806 FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning __________ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) B&R#:2012-25-17-4-118 JC:Q4182 B.O.C:252A APPN:31X0200
Obligates Funds: $13,333.00 FAIMIS Number:122218
DUNS: 107928806 NAICIS:541690 PSC:AG54

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

(X)	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 43.103(a) Bilateral Contract Modification
	D. OTHER (Specify type of modification and authority)

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

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

The purpose of this modification is to increase the level of effort under this task order. The level of effort is being increased due to additional effort to support the increased amount of Requests for Additional Information (RAIs). This modification will also increase the travel associated with this task order. The travel is required because contractor support is need at the ACRS meeting scheduled for July. This additional work shall be done in accordance with the revised SOW, see attachment 1.The ceiling and obligation amount of this task order is increased by $13,333.00 from $832,547 to $845,880.00. See page two (2) for additonal information.

Obligation Amount: $845,880.00 (changed)
Ceiling Amount: $845,880.00 (changed)
Period of Performance: 1/28/2009-12/31/2012(changed)
Except as specified herein, all other terms, conditions and pricing remain unchanged and in full force and effect.

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

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
DANIEL A. PRELEWICZ VICE-PRESIDENT & DEPUTY MANAGER		Matthew J. Bucher Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED 6/6/2012	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 6-6-2012

NSN 7540-01-152-8070
PREVIOUS EDITION NOT USABLE

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

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

JUN 8, 2012

ADM002

Refer to Task Order No. 04 "Statement of Work" is here by deleted in its entirety and replaced with the following Statement of Work attached to this Modification No. 10 entitled "Statement of Work Rev. 5".

Task Order No. 04 shall be in effect from January 28, 2009 through December 31, 2012, with a cost ceiling of $845,880.00. The amount of $786,668.40 represents the estimated reimbursable costs, and the amount of $59,211.60 represents the fixed fee.

The amount obligated by the Government with respect to this task order is $845,880.00, of which $786,668.40 represents the estimated reimbursable costs, and the amount of $59,211.60 represents the fixed fee.

MODIFICATION

TASK ORDER STATEMENT OF WORK – REVISION 5

1.0 BACKGROUND

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

A Standard Review Plan (NUREG-0800) is prepared for the guidance of staff reviewers in the Office of New Reactors in performing safety reviews of applications to construct or operate nuclear power plants and the review of applications to approve 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.

An Environmental Safety Review Plan (NUREG-1555) is prepared for the guidance of staff reviewers in performing environmental reviews of applications related 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).

2.0 OBJECTIVE

The objective of this task order is to obtain technical expertise in evaluating the adequacy of the revised (MRELAP code (through Option 6) to model US-APWR SBLOCA accidents. Review should evaluate if the appropriate equations, numerical solutions, nodalization used as well as the adequacy of validation test matrix.

The objective of Revision 4 to the Statement of Work is to obtain assistance with the review of the Revised SBLOCA Topical Report (MUAP-07013) for revised accumulator flow uncertainty.

The objective of Revision 5 to the Statement of Work is to increase the ceiling. The increase in ceiling is necessary as the review scope required more effort than anticipated due to the development of a greater number of requests for additional information (RAIs) than expected and the associated time to review the responses. As a result, the ACRS meeting has been delayed.

3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks/Standards	Scheduled Completion	Deliverables
1. REQUIREMENT: Review SBLOCA Topical Report (MUAP-07013) to become familiar with models, methods, PIRT, validation test matrix and general results STANDARD: Written confirmation that familiarization is complete.	2 weeks after authorization of work	Notification that reading has been completed
2. REQUIREMENT: Participate in an orientation/kick-off meeting with the NRC staff to discuss the scope of the work, expectations and contract management STANDARD: Attendance by individuals designated by NRC.	3 weeks after authorization	N/A
3. REQUIREMENT: Review fundamental equations, numerical methods, correlation(s) validity relative to SBLOCA physical phenomena. Determine if theory, numerical methods and correlations are used within their applicable ranges or limitations exist which have not been indentified or documented. Review latest (Option 5) MRELAP code used for SBLOCA. Prepare any additional RAIs and revise the Technical Evaluation Report. Review revised MUAP-07013 for revised accumulator flow uncertainty. Issue RAIs as necessary. STANDARD: Completed Technical Evaluation Report that follows the NRC provided template without deviation. No deviation from the guidance defined in Section III, RAI Guidance of Attachment1. One round of comment incorporation is acceptable.	Twelve (12) months following Task 2 Three (3) months after authorization of modification Two weeks after final transmittal of revised documents	Technical Evaluation Report and RAIs. Revised Technical Evaluation Report and RAIs

Tasks/Standards	Scheduled Completion	Deliverables
a. Review code validation test case matrix for completeness, identify any deficiencies. Review and evaluate validation test cases presented in MUAP-07013 and determine if presented results are similar to other industry accepted SBLOCA model results. b. Independently created model maybe used as an aid to evaluate validation test cases. Determine any code input limitations or ranges of applicability when modeling SBLOCA accidents. c. Review revised MRELAP5 code validation test cases matrix for completeness, identify any deficiencies. d. Setup and exercise independent model(s) to evaluate the revised MRELAP5 code.		
4. REQUIREMENT: Review response to the RAIs to determine if they adequately resolve the outstanding issues. Identify any other open items. Incorporate the review results in the evaluation report completed under Task 3.	Four (4) weeks *after* receipt of the responses.	Revised Technical Evaluation Report and any follow-up RAIs
Review any RAI responses related to the latest (Option 5) revised MRELAP code and incorporate the review results into the technical evaluation report.	Three (3) weeks after receipt of revised RELAP5 model RAI responses.	
Review RAI responses related to MRELAP code Option 6	Two weeks after receipt of RAI responses	
Review RAI responses on revised MUAP-07013 for revised accumulator flow uncertainty.	Two weeks after receipt of RAI responses	
STANDARD: Completed Technical Evaluation Report that follows the NRC provided template		

Tasks/Standards	Scheduled Completion	Deliverables
without deviation. No deviation from the guidance defined in Section III, RAI Guidance of Attachment1. One round of comment incorporation is acceptable.		
5. REQUIREMENT: *(If applicable)* Prepare for and travel to the applicant's office and participate in an NRC review team to: a. Audit the applicant as determined by NRC Technical Lead 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. c. Prepare a trip report (as an input to NRC Audit Report) to summarize the information reviewed, results of the audit, and meeting discussions. Prepare for and participate in follow-on audits at the applicant's office, if required. Prepare trip reports. STANDARD: Complete evaluation as defined in Task. Submit Trip Report within weeks of site review.	Two (2) weeks following audit	Trip Report
6. REQUIREMENT: Review the applicant's response to the open items identified as a result of the design audit(s) (Tasks 4 & 5). Identify any unresolved issues and prepare a safety evaluation report w/open items if any, as a Technical Evaluation Report. Revise TER based on impact of revised accumulator flow uncertainty on MUAP-07013. STANDARD: Complete Technical Evaluation Report that follows the NRC provided template without deviation.	Three (3) weeks following completion of Task 5 2 weeks following completion of Task 4 or 5 (if audit required)	Safety Evaluation Report Input w/open items

Tasks/Standards	Scheduled Completion	Deliverables
7. REQUIREMENT: As needed and requested by the staff, provide technical support to the staff during related ACRS meetings and hearing proceedings. STANDARD: Ensure presentation materials are reviewed and approved by NRC staff.	**June - August 2012**	Prepare Presentation Materials. Attend Meetings, if required

* 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 base contract, 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: a) expertise and experience in analysis of nuclear reactor thermal-hydraulics, b) expertise in use of the RELAP-5 computer code, c) expertise and familiarity with NRC regulations pertaining to analysis of nuclear reactor thermal-hydraulics, LOCA and Non-LOCA analyses under the standard review plan (SRP) Sections 4.0 and Chapter 15, d) familiarity with requests for additional information (RAI) development, and e) experience and familiarity with development of technical evaluation report (TER) supporting positions developed during the review of APWR reactor designs.

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

The contractor shall provide a contractor project manager (PM) to oversee the effort and ensure the timely submittal of quality deliverables so that all information is accurate and complete as defined in the base contract.

The NRC will rely on representations made by the contractor concerning the qualifications of the personnel assigned to this task order, including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful. The resume for each professional proposed to work under this task order (contractor, subcontractor, or consultant) shall describe the individual's experience in applying his or her area of engineering

specialization to work in the proposed area. The use of particular personnel on this contract is subject to the NRC technical monitor's (TM's) approval. This includes any proposed changes to key personnel during the life of the task order.

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, Task Order Project Officer (PO) 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 contractor's understanding of the particular work requirement.

The contractor shall provide the following deliverables in hard copy and electronic formats. The electronic format shall be provided in MS Word or other word processing software approved by the TM. For each deliverable, the contractor shall provide one hard copy and electronic copy to both the PM and 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.: Q-4182; Technical Assignment Control No. (TAC), RX0611; Task Order 4; and the licensee: Mitsubishi Heavy Industries; and, the site: N/A.

1. At the completion of Task 3, submit a Technical Evaluation Report (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 "Requests for Additional Information (RAIs). See **Attachment 1 in Appendix J** of the base contract SOW for the guidelines for developing RAIs.

2. At the completion of Task 4, submit a TER (**see Attachment 1**) that contains a summary of the review results and the updated report completed under Task 3 incorporating the findings from the resolution of the RAIs. Include a separate list of the remaining open items and the basis for such determination.

3. At the completion of Task 5 (if applicable), submit a trip report, as an input to NRC audit report, that contains a summary of documents audited, a summary of meeting discussion 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 3.

4. At the completion of Task 6, submit a TER (**see Attachment 1**) that contains a safety evaluation report with open items resulting from the work performed in Task 4 & 5, and update of the Technical Evaluation Report developed under Task 5.

6.0 MEETINGS AND TRAVEL

One 2-person, 1-day working meeting to kickoff project and contractor orientation.*

(If required) Three + One, 2-person, 2-day trip to the applicant's local facility (Tasks 5).

One 2-person, 1-day working meetings at NRC headquarters to review deliverables*

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

(any additional trips that may be required)

*At the discretion of the NRC TM, meeting may be conducted via telephone or video conference.

7.0 NRC FURNISHED MATERIAL

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

a. Topical Reports: SBLOCA (MUAP-07013) .

b. CD-ROM containing the Final Safety Evaluation Report of the DCD.

c. Latest (Option 5) revised MRELAP code used for SBLOCA

d. Option 6 revised MRLEAP code used for SBLOCA

e. Revised versions of MUAP-07013

8.0 LEVEL OF EFFORT

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

Task(s)	Labor Category	Level of Effort FY-09 (hours)	Level of Effort FY-10 (hours)	Level of Effort FY-11 (hours)	Level of Effort FY-12 (hours)
1	Senior Engineer	30			

Task(s)	Labor Category	Level of Effort FY-09 (hours)	Level of Effort FY-10 (hours)	Level of Effort FY-11 (hours)	Level of Effort FY-12 (hours)
2	Senior Engineer	50			
3	Senior Engineer	1490	970+300	300	
4	Senior Engineer	0	320	125+50+100 = 275	
5	Senior Engineer	80	84	25+100 = 125	
6	Senior Engineer	0	200	50+100 = 150	
7	Senior Engineer	0	0	60	**42**
Task 1 - 7	Project Manager	200	100	50	**10**
Task 1 - 7	Admin Support	50	30	20	
Total		1900	1704+300= 2004	130+425+125 + 300 = 980	**52**

9.0 PERIOD OF PERFORMANCE

The period of performance is from January 28, 2009 through **December 31, 2012.**

10.0 OTHER APPLICABLE INFORMATION

a. License Fee Recovery

All work under this task order is/is not fee recoverable and must be charged to the appropriate TAC number(s).

b. Assumptions and Understandings:

The level of effort for Task 3 is based on the assumption that the contractor is familiar with the review procedures of (ESRP/SRP) Sections 15.0 .

The level of effort for Task 4 is based on the assumption that there will be 30 additional RAIs and it will take, on the average, 4.0 hours to review and address each response.

The level of effort for Task 5 is based on two, two-person, two-day trip (including travel time) plus three days to prepare for the trips and one day to write the trip reports.

The level of effort for Task 6 is based on the need to resolve 40 open items and it will take, on the average, 5 hours to review and resolve each open item, and prepare an SER.

The level of effort in Task 7 is based on requiring one trip to the site and one trip to NRC headquarters.

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.

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 Safety Evaluation Report (SER) which will document the NRC's technical, safety, and legal basis for approving the DC 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 format is described in Attachment 1 to this Task Order Statement of Work.

Attachments:

1. Outline, Format, and Content for the TER Input

Attachment 1
Outline, format, and sample for the TER (draft SER input)

X.Y.Z Title of Section

X.Y.Z.1 Regulatory Criteria

Develop an outline that follows the format and topics presented in the AREAS OF REVIEW section of the appropriate SRP section. This information will correspond to the SRP sections that are the subject of this Task Order. For each unique SRP review area contained in the TER, the contractor should specify the acceptance criteria that were used for its review. Summarize the applicable regulations and other regulatory references, including regulatory guides, generic letters, or NRC staff positions, that are relevant to this topic.

Technical reviewers are encouraged to use the descriptions of acceptance criteria from previously issued Safety Evaluation Reports for completed design certifications (e.g., NUREG-1793 for the AP1000 Final Safety Evaluation Report) when applicable.

X.Y.Z.2 Summary of Technical Information

Describe the key technical points that were made in the application. It is not necessary to restate the application verbatim or to address all the details in the application.

X.Y.Z.3 Technical Evaluation

Document the contractor's evaluation of the application against the relevant regulatory criteria. The evaluation should support the contractor's conclusions as to whether the regulations are met. State what the contractor did to evaluate the applicant's submittal. The contractor's evaluation may include verification that the applicant followed applicable regulatory guidance, performance of independent calculations, and validation that the appropriate assumptions were made. The contractor may state that certain information provided by the applicant was not considered essential to the contractor's review and was not reviewed by the contractor. While the contractor may summarize the information offered by the applicant in support of its application, the contractor should clearly articulate the bases for its conclusions.

Contractor should provide a clear and concise description of any request for additional information (RAIs). The description should include a justification of the requested information that the requested information is not provided in the application and is absolutely needed to determine or confirm whether the relevant regulatory requirements (articulate specific requirements) have been met. The contractor should discuss its technical evaluation of the licensee's response to the RAIs and determine whether it is acceptable. The contractor should clearly articulate the bases for its acceptance or rejection. If the RAI response is not acceptable, it will be classified as an 'open item'. All open items will be resolved in Phase 3.

X.Y.Z.4 Conclusions

Summarize the contractor's conclusions regarding the application, including words such as the following. As set forth above in Sections X.Y.Z.2 and X.Y.Z.3 of this report, [provide specific bases for conclusions that follow]. Accordingly, the staff concludes that the application meets [or, if applicable, does not meet] the relevant requirements of 10 CFR Part XX and is [or, if applicable, is not] acceptable.

X.Y.Z.5 References

Print Form

PERFORMANCE PROGRESS REPORT
Performance Measures SF-PPR-A

			Page	of Pages
1.Federal Agency and Organization Element to Which Report is Submitted NRC	2. Federal Grant or Other Identifying Number Assigned by Federal Agency NRC-27-09-516	3a. DUNS 040324332 3b. EIN 45-0314233		4. Reporting Period End Date *(Month, Day, Year)* March 31, 2012

A. Performance Measures

(1) Measure Number or Label	(2) Objective/Goal Description	(3) Measure	(4) Baseline	(5) Target Year	(6) Project Target	(7) Actual To Date	(8) Explanation
A-01	Teaching	number of students	0	5	5	5	This was second semester of project. We lost teacher had faculty fill in and 5 students continue.
A-02	Travel	number of students	0	5	5	5	5 students attended AISES conference in Minneapolis.
A-03							

Note:
- Agencies will specify if this page is required
- This page can be used for one or more activities and results, and can be duplicated

Line Item Instructions for Attachment A, Performance Measures

Item	Data Elements	Instructions
1	Awarding Federal agency and Organizational Element to Which Report is Submitted	Enter the name of the awarding Federal agency and organizational element identified in the award document or otherwise instructed by the agency. The organizational element is a sub-agency within an awarding Federal agency.
2	Federal Grant or Other Identifying Number Assigned by the awarding Federal agency	Enter the grant/award number contained in the award document.
3a	DUNS Number	Enter the recipient organization's Data Universal Numbering System (DUNS) number or Central Contract Registry extended DUNS number.
3b	EIN	Enter the recipient organization's Employer Identification Number (EIN) provided by the Internal Revenue Service.
4	Reporting Period End Date	Enter the ending date of the reporting period. For quarterly, semi-annual, and annual reports, the following calendar quarter reporting period end dates shall be used: 3/31; 6/30; 9/30 and or 12/31. For final PPRs, the reporting period end date shall be the end date of the project/grant period. The frequency of required reporting is usually established in the award document.
Performance Measures		
A.(1)	Measure Number or Label	Enter number or label used to identify a particular performance measure and associate the measure with specific awarding Federal agency program goals, objectives or program/priority areas. ***(Awarding Federal agencies may provide guidance on format and purpose of this number or label. —For example, an agency may prescribe specific activities, may prescribe how to map activities to specific goals/objectives or program/priority areas, or may leave the determination to the recipient).***
A.(2)	Objective/Goal Description	For each measure, list the corresponding project/award goal(s) and objective(s) associated with the particular performance measure.

Line Item Instructions for Attachment A, Performance Measures (cont.)

A.(3)	Measure	Enter the description or phrase describing the actual performance measure against which project/award progress and award activities can be measured. This can be quantitative or qualitative. For example, it can include counts, percentages, targeted dates, time periods, or levels. It could also describe a condition, a result, or a status. ***(Awarding Federal agency guidance may be provided to prescribe specific measures, prescribe how the measures can map to program goals/objectives or program/priority areas, or leave determination to the recipient).***
A.(4)	Baseline	Enter the initial starting point or average amount or condition related to each measure.
A.(5)	Target Year	Enter the year you expect to accomplish the targets specified in the approved work plan. Note: Different target years may appear on the same report such as an annual measure and a long-term measure.
A.(6)	Project Target	Enter the expected amount to be achieved as specified in the approved work plan.
A.(7)	Actual to Date	State the actual cumulative amount, condition or status achieved as of the end of the reporting period.
A.(8)	Explanation	If you did not meet or expect to meet your target, you must explain.

PERFORMANCE PROGRESS REPORT
Activity Based Expenditures SF-PPR-E

			Page	of Pages
1.Federal Agency and Organization Element to Which Report is Submitted NRC	2. Federal Grant or Other Identifying Number Assigned by Federal Agency NRC-27-09-516	3a. DUNS 040324332 3b. EIN 45-0314233		4. Reporting Period End Date *(Month, Day, Year)* March 31, 2012

E. Activity Based Expenditures

(1) **Activity Number** or Label	(2) **Activity Description**	(3) **Total Estimated Expenditures**	(4) **Funding Expended**
E-01	Teaching-curriculum development	24,293.55	24,293.55
E-02	Travel-learning experiences for students and faculty	0.00	0.00
E-03			
TOTAL		24,293.55	24,293.55

Note:
- Agencies will specify if this page is required
- This page can be used for one or more activities and results, and can be duplicated

Line Item Instructions for Attachment E, Activity Based Expenditures

Item	Data Elements	Instructions
1	Awarding Federal agency and Organizational Element to Which Report is Submitted	Enter the name of the awarding Federal agency and organizational element identified in the award document or otherwise instructed by the agency. The organizational element is a sub-agency within an awarding Federal agency.
2	Federal Grant or Other Identifying Number Assigned by the awarding Federal agency	Enter the grant/award number contained in the award document.
3a	DUNS Number	Enter the recipient organization's Data Universal Numbering System (DUNS) number or Central Contract Registry extended DUNS number.
3b	EIN	Enter the recipient organization's Employer Identification Number (EIN) provided by the Internal Revenue Service.
4	Reporting Period End Date	Enter the ending date of the reporting period. For quarterly, semi-annual, and annual reports, the following calendar quarter reporting period end dates shall be used: 3/31; 6/30; 9/30 and or 12/31. For final PPRs, the reporting period end date shall be the end date of the project/grant period. The frequency of required reporting is usually established in the award document.
Activity Based Expenditures		
E.(1)	Activity Number or Label	Enter the Number or label used to track a particular award activity and enter the label used to associate the activity with a particular awarding Federal agency program goal, objective or program/priority area. ***(Awarding Federal agencies may provide guidance on format and purpose of this number or label. For example, an agency may prescribe specific activities or may prescribe how to map activities to specific goals, objectives or program/priority areas, or may leave determination to the recipient).***
E.(2)	Activity Description	Describe the approved award activities performed to achieve short and long-term goals, associated with expenditures being reported. **(Awarding Federal agencies may provide guidance on the level of detail and types of activities identified).**

Line Item Instructions for Attachment E, Activity Based Expenditures

E.(3)	Total Estimated Expenditures	Enter the estimated amount you anticipate spending for each listed activity during the project/grant period.
E.(4)	Funding Expended	Enter the amount of award funds spent on each listed activity during the project/grant period.
Total		Sum columns 3 and 4 respectively. If more than one page is used, enter the total of all columns for all expenditure activity pages on the last Activity Based Expenditure page.