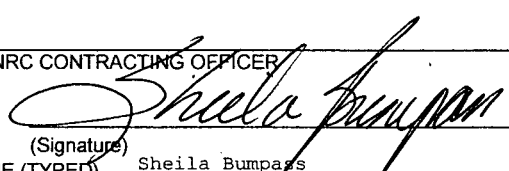



**U.S. NUCLEAR REGULATORY COMMISSION
NOTICE OF GRANT/ASSISTANCE AWARD**

1. GRANT/AGREEMENT NO. NRC-38-07-506		2. MODIFICATION NO. 0004		3. PERIOD OF PERFORMANCE FROM: 09/01/2007 TO: 08/31/2011		4. AUTHORITY Pursuant to Section 31b and 141b of the Atomic Energy Act of 1954, as amended	
5. TYPE OF AWARD <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> COOPERATIVE AGREEMENT		6. ORGANIZATION TYPE DUNS: 124726725 State Controlled Higher Education Institution		7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE UNIVERSITY OF CALIFORNIA, BERKELEY 2150 SHATTUCK AVE RM 313 BERKELEY CA 947045940 spo_grants_gov@lists.berkeley.edu			
8. PROJECT TITLE: Scientific and Regulatory Basis for Environmental Protection in Nuclear Fuel Cycle							
9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED 01/21/2009 AND APPENDIX A-PROJECT GRANT PROVISIONS		10. TECHNICAL REPORTS ARE REQUIRED <input checked="" type="checkbox"/> PROGRESS AND FINAL <input type="checkbox"/> FINAL ONLY <input type="checkbox"/> OTHER (Conference Proceedings)		11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS Dr. Joonhong Ahn, 510-642-5107 Department of Nuclear Engineering University of California, Berkeley 2150 Shattuck Avenue, Suite 313 Berkeley CA 94704-5940 ahn@nuc.berkeley.edu			
12. NRC PROGRAM OFFICE (NAME and ADDRESS) US Nuclear Regulatory Commission Office of Human Resources Attn: Randi Neff, 301-492-2301 Mail Stop: W5-A6 Washington DC 20555 Randi.Neff@nrc.gov		13. ACCOUNTING and APPROPRIATION DATA APPN. NO: 31X0200 B&R NO: 0-8415-5C1116 JOB CODE: T8453 BOC NO: 4110 OFFICE ID NO: HR-07-506-004		14. METHOD OF PAYMENT <input type="checkbox"/> ADVANCE BY TREASURY CHECK <input type="checkbox"/> REIMBURSEMENT BY TREASURY CHECK <input type="checkbox"/> LETTER OF CREDIT <input checked="" type="checkbox"/> OTHER (SPECIFY) Electronic ASAP.gov (See Remarks in Item #20 "Payment Information")			
15. NRC OBLIGATION FUNDS		16. TOTAL FUNDING AGREEMENT					
THIS ACTION <u>\$0.0</u>		NRC <u>\$91,450.00</u> This action provides funds for Fiscal Year in the amount of See Page 2					
PREVIOUS OBLIGATION <u>\$91,450.00</u>		RECIPIENT <u>0</u>					
TOTAL <u>\$91,450.00</u>		TOTAL <u>\$91,450.00</u>					
17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Erika Eam Mail Stop: TWB-01-B10M Washington, DC 20555							
18. Acceptance of or objections to the Terms and Conditions of Award must be Emailed to the NRC Issuing Office (Block #17) within three (3) business days following the Award issue date. NRC considers lack of response as acceptance by the grantee of the terms and conditions of award.				19. NRC CONTRACTING OFFICER			
				 (Signature) _____ NAME (TYPED) <u>Sheila Bumpass</u> TITLE <u>Contracting Officer</u> TELEPHONE NO. <u>301-492-3484</u> <div style="text-align: right;">  (Date) </div>			
20. PAYMENT INFORMATION Payment will be made through the Automated Standard Application for Payment (ASAP.gov) unless the recipient has failed to comply with the program objectives, award conditions, Federal reporting requirements or other conditions specified in 2 CFR 215 (OMB Circular A110).							
21. Attached is a copy of the "NRC General Provisions for Grants and Cooperative Agreements Awarded to Non-Government Recipients. Acceptance of these terms and conditions is acknowledged when Federal funds are used on this project.							
22. ORDER OF PRECEDENCE In the event of a conflict between the recipient's proposal and this award, the terms of the Award shall prevail.							
23. By this award, the Recipient certifies that payment of any audit-related debt will not reduce the level of performance of any Federal Program.							

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

JUL 6 2010

ADM002

The purpose of this no cost modification is to extend the period of performance of this Cooperative Agreement. Specific changes are as follows:

US Nuclear Regulatory Commission, Notice of Grant/Assistance Award form, **Block 3, Period of Performance, delete** in its entirety and **replace** with the following, **“Period of Performance FROM 09/01/2007 TO 08/31/2011”**.

All other terms and conditions will remain the same.