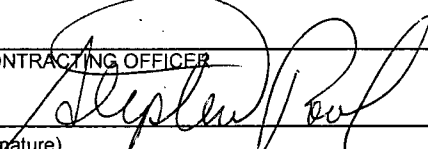


**U.S. NUCLEAR REGULATORY COMMISSION  
NOTICE OF GRANT/ASSISTANCE AWARD**

1. GRANT/AGREEMENT NO. NRC-04-07-064	2. MODIFICATION NO. M001	3. PERIOD OF PERFORMANCE FROM: 04/20/2007 TO: 02/28/2009	4. AUTHORITY Pursuant to Section 31a 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 No. 003403953	7. RECIPIENT NAME AND ADDRESS PENNSYLVANIA STATE UNIVERSITY, THE PENN STATE  408 OLD MAIN  UNIVERSITY PARK PA 168021505	
8. PROJECT TITLE: "Fracture of Hydrided Zircaloy Under Thorough-Thickness Crack Growth"			
9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED 07/20/2006 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 AND ADDRESS Pennsylvania State University Attn: Arthur Motta Department of Mechanical & Nuclear Eng. 227 Reber Bldg. University Park, PA 16802	
12. NRC PROGRAM OFFICE (NAME & ADDRESS) U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research Attn: Mr. Harold Scott, MS-T-10-K-8 Washington DC 20555  301-415-8715	13. ACCOUNTING & APPROPRIATION DATA APPN. NO: 31X0200.860 B&R NO: 86015111205 JOB CODE: G6055 BOC NO: 4110 OFFICE ID NO: RES-C08-126	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) RFPA No. RES-07-064 (See Attach. 30 in Appendix A - "Electronic Payment")	
15. NRC OBLIGATION FUNDS  THIS ACTION \$100,000.00  PREVIOUS OBLIGATION \$65,000.00  TOTAL \$165,000.00	16. TOTAL FUNDING AGREEMENT  NRC 173,820.00 This action provides funds for Fiscal Year 2008 in the amount of 100,000  RECIPIENT \$0.00  TOTAL 173,820.00		
17. NRC ISSUING OFFICE (NAME AND ADDRESS)  U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Danielle Emche, 301-415-0676 Mail Stop T-7-I-2 Washington, DC 20555			
18. RECIPIENT  Not Required (Signature) _____ (Date) _____  NAME (TYPED) _____  TITLE _____  TELEPHONE NO. _____		19. NRC CONTRACTING OFFICER   2/20/08 (Signature) _____ (Date) _____  NAME (TYPED) Stephen Pool  TITLE Contracting Officer  TELEPHONE NO. 301-415-8168	
20. PAYMENT INFORMATION  Payment will be made within thirty (30) days after receipt of the billing unless the bill is improper or the recipient has failed to comply with the program objectives, award conditions, Federal reporting requirements or other conditions specified in OMB Circular A-110.  Payment will be made by: _____ Vouchers should be submitted in an original and three (3) copies on form 270 to:  U.S. Nuclear Regulatory Commission Payment Team, Mail Stop T-9-H-4 Attn: (NRC-04-07-064) Washington DC 20555  (See address in block no. 17)			
21. Attached is a copy of the "NRC General Provisions for Grants and Cooperative Agreements Awarded to Institutions of Higher Education and Other Nonprofit Organizations". 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			