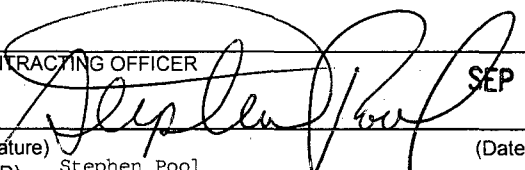


**U.S. NUCLEAR REGULATORY COMMISSION  
NOTICE OF GRANT/ASSISTANCE AWARD**

<b>1. GRANT/AGREEMENT NO.</b> NRC-04-07-064	<b>2. MODIFICATION NO.</b> M004	<b>3. PERIOD OF PERFORMANCE</b> FROM: 4/20/2007 TO: 1/31/2010	<b>4. AUTHORITY</b> Pursuant to Section 31b and 141b of the Atomic Energy Act of 1954, as amended
<b>5. TYPE OF AWARD</b>  <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> COOPERATIVE AGREEMENT	<b>6. ORGANIZATION TYPE</b>  003403953	<b>7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS</b> PENNSYLVANIA STATE UNIVERSITY, THE PENN STATE  408 OLD MAIN  UNIVERSITY PARK PA 168021505	
<b>8. PROJECT TITLE:</b> Fracture of Hydried Zircaloy Under through-Thickness Crack Growth			
<b>9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED</b> 7/20/2006  <b>AND APPENDIX A-PROJECT GRANT PROVISIONS</b>	<b>10. TECHNICAL REPORTS ARE REQUIRED</b> <input checked="" type="checkbox"/> PROGRESS AND FINAL <input type="checkbox"/> FINAL ONLY <input type="checkbox"/> OTHER (Conference Proceedings)	<b>11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS</b> Pennsylvania State University Attn: Arthur Motta Department of Mechanical and Nuclear Engineering 227 Reber Bldg. University Park, PA 16802	
<b>12. NRC PROGRAM OFFICE (NAME and ADDRESS)</b> US Nuclear Regulatory Commission Office of Nuclear Regulatory Research Attn: Mr. Harold Scott, MS: C3A07M Washington DC 20555 Telephone: 301-251-7557	<b>13. ACCOUNTING and APPROPRIATION DATA</b> APPN. NO: N/A B&R NO: JOB CODE: BOC NO: OFFICE ID NO:	<b>14. METHOD OF PAYMENT</b> <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")	
<b>15. NRC OBLIGATION FUNDS</b>  THIS ACTION <u>                    \$0.00                    </u>  PREVIOUS OBLIGATION <u>                    \$173,820.00                    </u>  TOTAL <u>                    \$172,820.00                    </u>	<b>16. TOTAL FUNDING AGREEMENT</b>  NRC <u>                    \$173,820.00                    </u>  RECIPIENT <u>                    \$0.00                    </u>  TOTAL <u>                    \$173,820.00                    </u>  This action provides funds for Fiscal Year FY09 in the amount of \$0.00		
<b>17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS)</b>  U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Adelis M Rodriguez, 301-492-3623 Mail Stop: TWB-01-B10M Washington, DC 20555			
<b>18.</b> 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.	<b>19. NRC CONTRACTING OFFICER</b>  <div style="text-align: right;">              (Signature) _____ (Date) <b>SEP 25 2008</b> </div> NAME (TYPED) <u>                    Stephen Pool                    </u>  TITLE <u>                    Contracting Officer                    </u>  TELEPHONE NO. <u>                    301-492-3618                    </u>		
<b>20. PAYMENT INFORMATION</b>  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).  Department of interior / NBC Nrcpayments@nbc.gov Attn: Fiscal Services Branch - D2770 7301 W. Mansfield Avenue Denver, CO 80235-2230			
<b>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.</b>			
<b>22. ORDER OF PRECEDENCE</b> In the event of a conflict between the recipient's proposal and this award, the terms of the Award shall prevail.			
<b>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.</b>			

**TEMPLATE - ADM001**

**SUNSI REVIEW COMPLETE**

**ADM002**