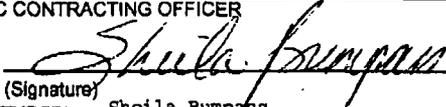


**U.S. NUCLEAR REGULATORY COMMISSION  
NOTICE OF GRANT/ASSISTANCE AWARD**

<b>1. GRANT/AGREEMENT NO.</b> NRC-04-09-149	<b>2. MODIFICATION NO.</b> M007	<b>3. PERIOD OF PERFORMANCE</b> FROM: 9/29/2009 TO: 12/31/2011	<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 type="checkbox"/> GRANT <input checked="" type="checkbox"/> COOPERATIVE AGREEMENT	<b>6. ORGANIZATION TYPE</b>  Public Institution of Higher ED DUNS: 003403953 NAICS: 611310	<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> OCED/NRC PSBT Benchmark based on NUPEC PWR Subchannel and Bundle Tests																		
<b>9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED 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> Dr. Maria N. Avramova Pennsylvania State University 231 Reber Bldg University Park, PA 168021505 mna109@psu.edu																
<b>12. NRC PROGRAM OFFICE (NAME and ADDRESS)</b> U.S. Nuclear Regulatory Commission Attn: Robin Barnes, 301-251-7401 Mails Stop: C6-D20 Office of Research Washington, DC 20555 Alexander Velazquez-Lozada, Tech. Analyst	<b>13. ACCOUNTING and APPROPRIATION DATA</b> APPN. NO: 31x0200.160 B&R NO: 2011-60-11-6-142 JOB CODE: K6883 BOC NO: 4110 OFFICE ID NO: RES-11-291 FAMIS: RES-C11-350	<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>  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">THIS ACTION</td> <td style="width:30%; text-align: right;">\$0.00</td> </tr> <tr> <td>PREVIOUS OBLIGATION</td> <td style="text-align: right;">\$120,302.00</td> </tr> <tr> <td><b>TOTAL</b></td> <td style="text-align: right;"><b>\$120,302.00</b></td> </tr> </table>		THIS ACTION	\$0.00	PREVIOUS OBLIGATION	\$120,302.00	<b>TOTAL</b>	<b>\$120,302.00</b>	<b>16. TOTAL FUNDING AGREEMENT</b>  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">NRC</td> <td style="width:30%; text-align: right;">\$120,302.00</td> <td style="width:40%;">This action provides funds for Fiscal Year 11 in the amount of \$0.00</td> </tr> <tr> <td>RECIPIENT</td> <td style="text-align: right;">_____</td> <td></td> </tr> <tr> <td><b>TOTAL</b></td> <td style="text-align: right;"><b>\$120,302.00</b></td> <td></td> </tr> </table>		NRC	\$120,302.00	This action provides funds for Fiscal Year 11 in the amount of \$0.00	RECIPIENT	_____		<b>TOTAL</b>	<b>\$120,302.00</b>	
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PREVIOUS OBLIGATION	\$120,302.00																	
<b>TOTAL</b>	<b>\$120,302.00</b>																	
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RECIPIENT	_____																	
<b>TOTAL</b>	<b>\$120,302.00</b>																	
<b>17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS)</b>  U.S. Nuclear Regulatory Commission Division of Contracts Attn: M'Lita Carr Mail Stop TWB-01B10M Washington, DC 20555 MLita.Carr@nrc.gov																		
<b>18.</b>  Signature Not Required		<b>19. NRC CONTRACTING OFFICER</b>  <div style="text-align: right;">             (Signature) _____ (Date) 9/29/2011         </div> NAME (TYPED) Sheila Bumpass TITLE Contracting Officer TELEPHONE NO. 301-492-3484																
<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).																		
<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**

**DESCRIPTION OF MODIFICATION:**

The purpose of this modification M007 is:

1. Extend the period of performance at no additional cost to the government.

As a result of this modification:

1. Modification 007 Box 3 – "PERIOD OF PERFORMANCE" is changed to read:  
FROM: 09/29/2009 – TO: 12/31/2011.

Base Period: September 29, 2009 – December 31, 2011 (changed)

Total Agreement Amount: \$120,302.00 (unchanged)

Total Obligated Amount: \$120,302.00 (unchanged)

All terms and conditions remain the same.