

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

1. GRANT/AGREEMENT NO. NRC-04-04-055	2. MODIFICATION NO. M004	3. PERIOD OF PERFORMANCE FROM: 03/08/2004 TO: 03/07/2007	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  NON-PROFIT/ DUNS No. 003403953	7. RECIPIENT NAME AND ADDRESS PENNSYLVANIA STATE UNIVERSITY, THE  408 OLD MAIN  UNIVERSITY PARK PA 168021505	


3. PROJECT TITLE:  
 "MECHANISTIC UNDERSTANDING OF FAILURE OF HYDRIDED ZIRCALOY UNDER SEVERE LOADING CONDITIONS"  
 This mod is for the obligation of \$66,923.00 in incremental funding as shown in the attached page.

9. PROJECT WILL BE CONDUCTED BY FEDERAL GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED EN030467 02/27/04 AND APPENDIX A-PROJECT GRANT PROVISIONS	10. TECHNICAL REPORTS ARE REQUIRED  <input type="checkbox"/> PROGRESS AND FINAL <input type="checkbox"/> FINAL ONLY <input type="checkbox"/> OTHER (Conference Proceedings)	11. PRINCIPAL INVESTIGATOR(S) NAME AND ADDRESS Dr. Arthur Motta Dept of Mechanical and Nuclear Engr The Pennsylvania State University 227 Reber Bldg University Park, PA 16808
--	---	---

2. NRC PROGRAM OFFICE (NAME & ADDRESS) U.S. Nuclear Regulatory Commission Harold Scott Office of Nuclear Regulatory Research Mail Stop T-10 K8 Washington, DC 20555	13. ACCOUNTING & APPROPRIATION DATA APPN. NO: 31X0200.660 B&R NO: 65015111205 JOB CODE: G5923 BOC NO: 4110 OFFICE ID NO: RES-C06-201	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) DUNS# 003403953 (See Attach. 30 in Appendix A - "Electronic Payment")
--	---	--

5. NRC OBLIGATION FUNDS	16. TOTAL FUNDING AGREEMENT
THIS ACTION <u>\$66,923.00</u>	NRC <u>\$226,923.00</u> This action provides funds for Fiscal Year 06 in the amount of <u>\$66,923.00</u>
PREVIOUS OBLIGATION <u>\$160,000.00</u>	RECIPIENT <u>0</u>
TOTAL <u>\$226,923.00</u>	TOTAL <u>\$226,923.00</u>

7. NRC ISSUING OFFICE (NAME AND ADDRESS)  
 U.S. Nuclear Regulatory Commission  
 Division of Contracts  
 Two White Flint North - MS T-7-I-2  
 Attn: Jennifer DeFino  
 Washington, DC 20555

8. RECIPIENT  _____ (Signature) _____ (Date) NAME (TYPED) _____  TITLE _____  TELEPHONE NO. _____	19. NRC CONTRACTING OFFICER   2/21/06 _____ (Signature) _____ (Date) NAME (TYPED) Donald A. King  TITLE Contracting Officer  TELEPHONE NO. (301) 415-6731
---	--

1. 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-9H4 Attn: (NRC-04-04-055) Washington DC 20555	U.S. Nuclear Regulatory Commission Division of Contracts Mail Stop T-7-I-2 Washington, DC 20555
---	--

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.

ORDER OF PRECEDENCE  
 In the event of a conflict between the recipient's proposal and this award, the terms of the Award shall prevail.

By this award, the Recipient certifies that payment of any audit-related debt will not reduce the level of performance of any Federal Program

The purpose of this modification is to provide incremental funding in the amount of \$66,923.00 thereby increasing the obligated amount from \$160,000.00 to \$226,923.00. Accordingly, the grant is hereby modified as follows:

"The grant's total obligated amount is hereby increased by \$66,923.00 from \$160,000.00 to \$226,923.00."

A summary of obligations for this grant, from the award date through the date of this action is provided below:

Total FY04 Obligations	\$ 64,000
Total FY05 Obligations	\$ 96,000
Total FY06 Obligations	\$ 66,923
Cumulative Obligations	\$226,923

---

This modification obligates FY06 funds in the amount of \$66,923.00.

All other terms and conditions of the grant remain unchanged.