

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

1. GRANT/AGREEMENT NO. NRC-04-04-055	2. MODIFICATION NO. M005	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 PENN STATE 408 OLD MAIN UNIVERSITY PARK PA 168021505	

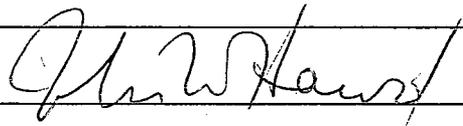
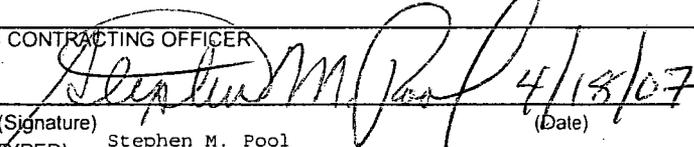
8. PROJECT TITLE:
"MECHANISTIC UNDERSTANDING OF FAILURE OF HYDRIDED ZIRCALOY ZIRCALOY UNDER SEVERE LOADING CONDITIONS"
This mod is to extend the period of performance as shown on the attached page.

9. PROJECT WILL BE CONDUCTED UNDER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED EN030467 02/27/04	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
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12. NRC PROGRAM OFFICE (NAME & ADDRESS) U.S. Nuclear Regulatory Commission Mr. Harold Scott Office of Nuclear Regulatory Research Mail Stop T-10K8 Washington, DC 20555	13. ACCOUNTING & APPROPRIATION DATA APPN. NO: 31X0200.660 B&R NO: 66015111205 JOB CODE: G6923 BOC NO: 4110 OFFICE ID NO: RES-C07-145	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) (See Attach. 30 in Appendix A - "Electronic Payment")
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5. NRC OBLIGATION FUNDS	16. TOTAL FUNDING AGREEMENT
THIS ACTION <u>\$0.00</u>	NRC <u>\$226,923.00</u> This action provides funds for Fiscal Year in the amount of N/A
REVIOUS OBLIGATION <u>\$66,923.00</u>	RECIPIENT <u>\$0.00</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
Div. of Contracts
Attn: Mr. Michael Mills
Mail Stop T-7-I-2
Washington, DC 20555

8. RECIPIENT  (Signature) <u>John W. Hanold</u> NAME (TYPED) <u>John W. Hanold</u> TITLE <u>Sr. Associate Director</u> <u>Office of Sponsored Programs</u> TELEPHONE NO. <u>814-865-1372</u>	19. NRC CONTRACTING OFFICER  (Signature) <u>Stephen M. Pool</u> NAME (TYPED) <u>Stephen M. Pool</u> TITLE <u>Contracting Officer</u> TELEPHONE NO. <u>301-415-8168</u>
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10. 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: (insert contract or order number) Washington DC 20555	U.S. Nuclear Regulatory Commission Division of Contracts Mail Stop T-7-I-2 Washington, DC 20555
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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

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

MAY 08 2007

ADM002

Per the verbal authorization of the NRC Contracting Officer on 3/15/07, The purpose of this bilateral modification is to extend the period of performance through from to 4/16/07 at no additional cost to the Government.

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

Total FY 04 Obligations	\$ 64,000
Total FY 05 Obligations	\$ 96,000
Total FY 06 Obligations	\$ 66,923
Cumulative Obligations	\$226,923

All other terms and conditions remain unchanged.