U.S. NUCLEAR REGULATORY COMMISSION
NOTICE OF GRANTIASSISTANCE AWARD

1. GRANT/AGREEMENT NO. NRC-04-10-156	2. MODIFICATION N	O. 3. PERIOD O FROM: 9/3	F PERFORMA		4. AUTHORITY Pursuant to Section 3	1b and 141b of the
5. TYPE OF AWARD	6. ORGANIZATION TYPE				Pursuant to Section 3 Atomic Energy Act of ESS, and EMAIL ADD	
	State Related Higher EDU		PENNSYLVANIA STATE UNIVERSITY, THE PENN STATE			
X GRANT	DUNS: 003403953					
COOPERATIVE AGREEMENT	NAICS: 611310		408 OLD MAIN UNIVERSITY PARK, PA 16802-1505 Email: almas@psu.edu			
8. PROJECT TITLE:	1		1			
In-Situ Study of Hydride Reorient	ation and Fractur	e Behavior of Ziro	conium Alloy	ys		
9. PROJECT WILL BE CONDUCTED	10. TECHNICAL REPORTS ARE REQUIRED		11. PRINCIP	AL INVESTIGATO	OR(S) NAME, ADDRES	S and EMAIL ADDRESS
PER GOVERNMENT'S/RECIPIENT'S	X PROGRESS AND FINAL		ATTN: Dr. Arthur T. Motta			
	FINAL ONLY		227 Reber Bldg.,			
AND APPENDIX A-PROJECT GRANT PROVISIONS	OTHER (Conference Proceedings)		University Park, PA 16802; E-mail: atm2@psu.edu			
12. NRC PROGRAM OFFICE (NAME and AD	DRESS) 13. ACCOU APPN. NO:	NTING and APPROPRI 31x0200	ATION DATA	14. METHOD OF		
NRC ATTN: Robin Barnes, Robin, Barnes10			6-174 ADVANCE BY TREASURY CHECK			
21 Church Street MS: C6D20 Rockville, MD 20850	JOB CODE: G6006			REIMBURSEMENT BY TREASURY CHECK		Y CHECK
(301) 251-7401	BOC NO:	4110		LETTER OF CREDIT		
TA: Harold Scott, Harold.scott@nr	C.gov OFFICE ID FAIMIS:	NO: RES-13-069 GR0276		`	PECIFY) Electronic A l Item #20 "Payment In	•
15. NRC OBLIGATION FUNDS		16. TOTAL FUNDING	AGREEMENT			
THIS ACTION \$132,634.00		NRC \$435,519).00	in the amount	ovides funds for Fiscal of \$0.00	Year 13
PREVIOUS OBLIGATION \$0.00		RECIPIENT		-		
TOTAL \$435.519.00		TOTAL \$435,519	0.00	-		
U.S. Nuclear Regulatory Commi Div. of Contracts Attn: M'Lita Carr Mail Stop: TWB-01-B10M Washington, DC 20555; E-mail:		<u>ov</u>				
18.		19.	NRC CONTRA	ACTING OFFICER	1/2	
			ندر	silea.	Eun	12/4/2012
Signature not Required			(Signature	•		(Date)
		NA	ME (TYPED)	Erika Eam		_
		דוד	LE	Grant Offic	er	 .
		TE	LEPHONE NO.	301-492-349	2.	_
20. PAYMENT INFORMATION						
Payment will be made through the Automated award conditions, Federal reporting requirement	Standard Application I	for Payment (ASAP.gov) specified in 2 CFR 215	unless the reci (OMB Circular	ipient has failed to A110).	comply with the progr	am objectives,
21. Attached is a copy of the "NRC General P	rovisions for Grants an	d Cooperative Agreeme	nts Awarded to	Non-Government	Reciplents.	
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.						

SUNSI REVIEW COMPLETE



DESCRIPTION OF MODIFICATION:

The purpose of this modification M004 is:

- 1. Correct Block 15, "NRC Obligation Funds". M003 dated 12/4/12, incorrectly identified the grant as being fully funded. Please correct Block 15 as reflected on this modification, M004.
- 2. Provide incremental funding in the amount of \$132,634.00;

As a result of this modification:

1. The obligated amount has increased by \$132,634.00 from \$302,885.00 to \$435,519.00;

Base Period: September 30, 2010 - September 30, 2013 (unchanged)

Total Agreement Amount: \$435,519.00 (unchanged)

Total Obligated Amount: \$435,519.00 (changed)

All terms and conditions remain the same.