

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

1. GRANT/AGREEMENT NO. NRC-04-09-156		2. MODIFICATION NO. M004		3. PERIOD OF PERFORMANCE FROM: 07/30/2009 TO: 08/31/2011		4. AUTHORITY Pursuant to Section 31b 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 111310249		7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS SOUTH CAROLINA RESEARCH FOUNDATION 901 SUMTER ST STE 511 COLUMBIA SC 292080001			
8. PROJECT TITLE: Joint Time-Frequency Domain Reflectometry (JTFDR) for Diagnostics of Aging Electric Cables in Nuclear Power Plants							
9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED December 8, 2008 AND APPENDIX A-PROJECT GRANT PROVISIONS		10. TECHNICAL REPORTS ARE REQUIRED <input checked="" type="checkbox"/> PROGRESS AND FINAL <input type="checkbox"/> FINAL ONLY <input type="checkbox"/> OTHER (Conference Proceedings)		11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS Dr. Yong-June Shin Department of Electrical Engineering University of South Carolina 301 S. Main Street Columbia SC 29208 email: shinjune@engr.sc.edu			
12. NRC PROGRAM OFFICE (NAME and ADDRESS) US Nuclear Regulatory Commission Darrell Murdock, RES/DE/MEEB 21 Church Street MS CSB-5A24M Rockville MD 20850 301-251-7629		13. ACCOUNTING and APPROPRIATION DATA APPN. NO: 31X0200.160 B&R NO: 201160116119 JOB CODE: G6674 BOC NO: 4110 OFFICE ID NO: FFS-GR0009		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) Electronic ASAP.gov (See Remarks in Item #20 "Payment Information")			
15. NRC OBLIGATION FUNDS		16. TOTAL FUNDING AGREEMENT					
THIS ACTION		\$54,700.00		NRC		\$170,000.00	
PREVIOUS OBLIGATION		\$105,600.00		RECIPIENT		\$0.00	
TOTAL		\$160,300.00		TOTAL		\$170,000.00	
17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Erika Eam Mail Stop: TWB-01-B10M Washington, DC 20555							
18. 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.				19. NRC CONTRACTING OFFICER <u>Erika Eam</u> 12/29/2010 (Signature) (Date) NAME (TYPED) Erika Eam TITLE Contracting Officer TELEPHONE NO. 301-492-3492			
20. PAYMENT INFORMATION 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).							
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.							
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.							

TEMPLATE - ADMIN001

SUNSI REVIEW COMPLETE

DEC 29 2010

ADMIN002

The purpose of this modification is to provide incremental funding in the amount of \$54,700.00, thereby increasing the total obligated amount from \$105,600.00 to \$160,300.00. The specific changes are as follows:

1. Under A. GENERAL, delete in its entirety and replace with the following,

"1. Total Estimated NRC Amount:	\$170,000.00
2. Total Obligated Amount:	\$160,300.00
3. Cost-Sharing Amount:	\$0.00
4. Activity Title:	Joint Time-Frequency Domain Reflectometry (JTFDR) for Diagnostics of Aging Electric Cables in Nuclear Power Plants
5. NRC Project Officer:	Darrell Murdock
6. DUNS No.:	11-131-0249"

2. Under B. SPECIFIC, add the following Accounting and Appropriation Data:

"RFPA No.:	RES-11-079
FFS:	GR0009
Job Code:	G6674
BOC:	4110
B&R Number:	2011-60-11-6-119
Appropriation #:	31X0200.160
Amount Obligated:	\$54,700.00"

Total Funding Agreement:	\$170,000.00
Total Obligated Amount:	\$160,300.00
Amount Available for Obligation:	\$ 9,700.00

All other Terms and Conditions Remain the Same