


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

1. GRANT/AGREEMENT NO. NRC-04-10-155		2. MODIFICATION NO. M004		3. PERIOD OF PERFORMANCE FROM: 9/30/2010 TO: 9/30/2012		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 University Affiliated Foundation NACIS: 611310 DUNS: 111310249		7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS SOUTH CAROLINA RESEARCH FOUNDATION 901 SUMTER ST STE 511 COLUMBIA SC 29208-0001 danielc@mailbox.sc.edu			
8. PROJECT TITLE: Ultrasonic Guided Wave Sensor for Gas Accumulation Detection in Nuclear Emergency Core Cooling Systems							
9. PROJECT WILL BE CONDUCTED PROPOSAL(S) DATED 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 301 S Main Street Columbia, SC 29208 Email: shiniune@engr.sc.edu Phone: 803-777-9569			
12. NRC PROGRAM OFFICE (NAME and ADDRESS) U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research Attn: Heather Dempsey Mail Stop: C5A24M Washington, DC 20555 Tel: 301-251-7666 JA: Zeechung (Gary) Wang (301) 251- 7643		13. ACCOUNTING and APPROPRIATION DATA APPN. NO: 31X0200 B&R NO: 2012-60-11-6-119 JOB CODE: G6002 BOC NO: 4110 OFFICE ID NO: RES-12-176 FAMIS: GR0196		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 \$89,000.00		NRC \$300,000.00		This action provides funds for Fiscal Year 2012 in the amount of \$89,000.00			
PREVIOUS OBLIGATION \$211,000.00		RECIPIENT					
TOTAL \$300,000.00		TOTAL \$300,000.00					
17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Chris Walston, Chris.walston@nrc.gov Mail Stop: TWB-01-B10M Washington, DC 20555							
18. Signature not required		19. NRC CONTRACTING OFFICER  (Signature) M'Lita Carr 6/4/2012 (Date) NAME (TYPED) M'Lita Carr TITLE Contracting Officer TELEPHONE NO. 301-492-3464					
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.							

DESCRIPTION OF MODIFICATION

The purpose for modification number 004 is to:

1. Provide incremental funding in the amount of \$89,000.00.
2. Change the Project Officer.

As a result of this modification:

1. The obligated amount has increased from \$211,000.00 to \$300,000.00.
2. Heather Dempsey has replaced Robin Barnes as the RES Project Officer.

Base Period: September 30, 2010 – September 30, 2012 (unchanged)
Assistance Award Ceiling: \$300,000.00 (unchanged)
NRC Total Obligated Amount: \$300,000.00 (changed)

All terms and conditions remain the same.