

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

1. GRANT/AGREEMENT NO. NRC-04-10-155	2. MODIFICATION NO. M005	3. PERIOD OF PERFORMANCE FROM: 9/30/2010 TO: 3/31/2013	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 Corporate Entity/Non Profit Organization DUNS: 111310249 NACIS: 541712	7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS South Carolina Research Foundation 901 Sumter St Ste 511 5 th Floor, Byrnes Bldg. Columbia, SC 29208-0001 Email: 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 South Carolina Research Foundation Attn: Dr. Lingyu Yu 901 Sumter St Ste 511 Columbia, SC 29208-0001 Email: yu3@engr.sc.edu	
12. NRC PROGRAM OFFICE (NAME and ADDRESS) U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research Attn: Heather Dempsey, Heather.Dempsey@nrc.gov Mail Stop: C6D20M Washington, DC 20555 TA: Bruce Lin, Bruce.Lin@nrc.gov	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-12-293 FAMIS: RES-C12-293	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 THIS ACTION \$0.00 PREVIOUS OBLIGATION \$300,000.00 TOTAL \$300,000.00		16. TOTAL FUNDING AGREEMENT NRC \$300,000.00 RECIPIENT \$0.00 TOTAL \$300,000.00 This action provides funds for Fiscal Year in the amount of \$0.00	
17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts M Lita Carr, MLita.Carr@nrc.gov Mail Stop: TWB-01-B10M Rockville, MD 20852			
18. Signature Not Required		19. NRC CONTRACTING OFFICER <div style="text-align: right; margin-right: 50px;"><i>M Lita Carr</i> 08/01/2012</div> <div style="display: flex; justify-content: space-between;"><div>(Signature)</div><div>(Date)</div></div> <div style="display: flex; justify-content: space-between;"><div>NAME (TYPED) M Lita Carr</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>TITLE Grants Officer</div><div></div></div> <div style="display: flex; justify-content: space-between;"><div>TELEPHONE NO. 301-492-3464</div><div></div></div>	
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 - ADM001

SUNSI REVIEW COMPLETE

ADM002

DESCRIPTION OF MODIFICATION

The purpose for modification number 005 is to:

1. Extend the period of performance;
2. Change the Principal Investigator (PI);
3. Change the Contracting Officer Representative (COR).

As a result of this modification:

1.
 - A. Block 3 of the US Nuclear Regulatory Commission, Notice of Grant Assistance Award, delete in its entirety and replace with the following:

"PERIOD OF PERFORMANCE
FROM: 09/30/2010 TO: 03/31/2013"
 - B. ATTACHMENT A – SCHEDULE, Section A.2 PERIOD OF PERFORMANCE, delete in its entirety and replace with the following:

"1. The effective date of this Grant is September 30, 2010. The estimated completion date of this Grant is March 31, 2013.

2. Funds obligated in this grants are available for program expenditures for the estimated period: September 30, 2010 – March 31, 2013"
2. Block 11 of the US Nuclear Regulatory Commission, Notice of Grant Assistance Award, delete in its entirety and replace with the following:

"PRINCIPAL INVESTIGATOR (S) NAME, ADDRESS and EMAIL

South Carolina Research Foundation
Attn: Dr. Lingyu Yu
901 Sumter St Ste 511
Columbia, SC 29208-0001
Email: yu3@engr.sc.edu"
3.
 - A. Block 12 of the US Nuclear Regulatory Commission, Notice of Grant Assistance Award, delete in its entirety and replace with the following:

"NRC PROGRAM OFFICE (NAME and ADDRESS)

U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Attn: Heather Dempsey, Heather.Dempsey@nrc.gov
Mail Stop: C5A24M
Washington, DC 20555"

TA: Bruce Lin, Bruce.Lin@nrc.gov

B. ATTACHMENT A – SCHEDULE, Section A.GENERAL item number 5 entitled "NRC Project Officer", delete in its entirety and replace with the following:

"5. NRC Project Officer: Heather Dempsey, Bruce Lin (TA)"

Base Period: September 30, 2010 – March 31, 2013 (changed)

Assistance Award Ceiling: \$300,000.00 (unchanged)

NRC Total Obligated Amount: \$300,000.00 (unchanged)

All terms and conditions remain the same.
