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

2. MODIFICATION NO. 13. PERIOD OF PERFORMANCE GRANT/AGREEMENT NO. 3. PERIOD OF PERFORMANCE 4. AUTHORITY FROM: 9/30/2010 Pursuant to Section 31b and 141b of the Atomic Energy Act of 1954, as amended NRC-04-10-155 M001 TO: 9/30/2012 5. TYPE OF AWARD 6. ORGANIZATION TYPE 7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS SOUTH CAROLINA RESEARCH FOUNDATION University Affiliated Foundation **GRANT** l X NACIS: 611310 901 SUMTER ST STE 511 COOPERATIVE AGREEMENT DUNS: 111310249 COLUMBIA SC 292080001 8. PROJECT TITLE: Ultrasonic Guided Wave Sensor for Gas Accumulation Detection in Nuclear Emergency Core Cooling Systems 9. PROJECT WILL BE CONDUCTED 10. TECHNICAL REPORTS ARE REQUIRED 11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS PROGRESS AND FINAL Dr. Yong-June Shin PROPOSAL(S) DATED FINAL ONLY 301 S Main Street Columbia, SC 29208 AND APPENDIX A-PROJECT OTHER (Conference Proceedings) shinjune@engr.sc.edu **GRANT PROVISIONS** 12. NRC PROGRAM OFFICE (NAME and ADDRESS) 13. ACCOUNTING and APPROPRIATION DATA 14. METHOD OF PAYMENT APPN. NO: 31X0200.160 ADVANCE BY TREASURY CHECK U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research B&R NO: 2011-60-11-6-119 REIMBURSEMENT BY TREASURY CHECK Attn: Robin Barnes JOB CODE: G6002 Mail Stop: C5A24M LETTER OF CREDIT BOC NO: 4110 Washington, DC 20555 Tel: 301-251-7401 TA: Zee chung Wang OTHER (SPECIFY) Electronic ASAP.gov OFFICE ID NO: RES-11-175 See Remarks in Item #20 "Payment Information") 112602 15. NRC OBLIGATION FUNDS 16. TOTAL FUNDING AGREEMENT This action provides funds for Fiscal Year 2011 THIS ACTION \$31,000.00 NRC \$300,000.00 in the amount of \$ 31,000.00 PREVIOUS OBLIGATION \$40,000.00 RECIPIENT TOTAL \$300,000.00 TOTAL \$71,000.00 17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: M'Lita Carr Mail Stop: TWB-01-B10M Washington, DC 20555 18. 19. NRC CONTRACTING OFFICER (Signature) Signature not required NAME (TYPED) TITLE Contracting Officer TELEPHONE NO. 301-492-3484 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 001 is to:

- 1. Provide incremental funding in the amount of \$31,000.00;
- 2. Change the Project Manager;
- 3. Add Financial and Performance reporting requirements.

## As a result of this modification:

- 1. The obligated amount has increased from \$40,000.00 to \$71,000.00;
- 2. Zeechung Wang has been replaced by Robin Barnes as the RES Project Manager;
- 3. In the Monitoring and Reporting section entitled "Federal Financial Reports" delete and replace with the following:

## "b. Federal Financial Reports

Effective October 1, 2009, NRC transitioned from the SF–269, SF–269A, SF–272, and SF–272A to the Federal Financial Report (SF-425) as required by OMB: Federal Register Notice: <a href="http://www.whitehouse.gov/omb/fedreg/2008/081308">http://www.whitehouse.gov/omb/fedreg/2008/081308</a> ffr.pdf Federal Financial Report Form (SF-425): <a href="http://www.whitehouse.gov/omb/grants">http://www.whitehouse.gov/omb/grants</a> forms/

The Recipient shall submit a Federal Financial Report (SF-425) on a quarterly basis, for the periods ending 3/31, 6/30, 9/30 and 12/31. Reports are due within 30 calendar days following the end of each reporting period. The reports must be emailed to Grants\_FFR@nrc.gov. "

- 4. In the Programmatic Requirements section entitled "Performance (Technical) Reports" add the following:
  - "c. The required performance (technical) reports must be emailed to Grants PPR@nrc.gov."

Base Period: September 30, 2010 – September 30, 2012 (unchanged)

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Assistance Award Ceiling:

\$300,000.00 (unchanged)

NRC Total Obligated Amount:

\$71,000.00 (changed)

All terms and conditions remain the same.