

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

1. GRANT/AGREEMENT NO. NRC-04-09-167	2. MODIFICATION NO. M002	3. PERIOD OF PERFORMANCE FROM: 10/01/2007 TO: 05/31/2013	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 NAICS: 541690 041964057	7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS NATIONAL ACADEMY OF SCIENCES NATIONAL RESEARCH COUNCIL 2101 CONSTITUTION AVE NW WASHINGTON DC 204180006													
8. PROJECT TITLE: Workshop: Subsurface Characterization, Modeling, Monitoring, and Remediation of Fractured Rocks															
9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED See Program Description 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 Ms. Samantha Magsino Board of earth Sciences and Resources National Research Council 500 Fifth Street, N.W. Washington DC 20001 smagsino@nas.edu													
12. NRC PROGRAM OFFICE (NAME and ADDRESS) U.S. Nuclear regulatory Commission Office of Research Attn: Robin Barnes Robin.Barnes1@nrc.gov Mail Stop: C6D20 Rockville MD 20850 301-251-7401	13. ACCOUNTING and APPROPRIATION DATA APPN. NO: 31X0200.160 B&R NO: 2011-60-17-6-161 JOB CODE: G6867 BOC NO: 4110 OFFICE ID NO: RFPA:RES-11-252 FAMIS: 620084		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 <table style="width:100%;"> <tr> <td style="width:50%;">THIS ACTION</td> <td style="width:50%; text-align: right;">\$165,000.00</td> </tr> <tr> <td>PREVIOUS OBLIGATION</td> <td style="text-align: right;">\$35,000.00</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">\$200,000.00</td> </tr> </table>		THIS ACTION	\$165,000.00	PREVIOUS OBLIGATION	\$35,000.00	TOTAL	\$200,000.00	16. TOTAL FUNDING AGREEMENT <table style="width:100%;"> <tr> <td style="width:50%;">NRC</td> <td style="width:50%; text-align: right;">\$200,000.00</td> </tr> <tr> <td>RECIPIENT</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">\$200,000.00</td> </tr> </table> <p style="text-align: right; margin-top: 10px;">This action provides funds for Fiscal Year 2011 in the amount of \$165,000.00</p>		NRC	\$200,000.00	RECIPIENT	\$0.00	TOTAL	\$200,000.00
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17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Chris Waiston Mail Stop: TWB-01-B10M Rockville Md, 20852 TA: Jacob Philip Jacob.Phipp@nrc.gov															
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 <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> (Signature) NAME (TYPED) <u>Sheila Bumpass</u> </div> <div style="text-align: center;"> <u>8/17/11</u> (Date) </div> </div> <div style="margin-top: 10px;"> TITLE <u>Contracting Officer</u> TELEPHONE NO. <u>(301) 631-3484</u> </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 of this modification M002 is:

1. Provide incremental funding in the amount of \$165,00.00;
2. Change the Project Manager;
3. Add Financial and Performance reporting requirements;
4. To correct the period of performance.

As a result of this modification:

1. The obligated amount has increased by \$165,000.00 from \$35,000.00 to \$200,000.00 to fully fund the grant;
2. Robin Barnes has replaced Jacob Philip as the RES Project Manager and Mr. Philip is hereby designated as the Technical Analyst;
3. In section b. entitled "Federal Financial Reports" under Monitoring and Reporting deleted 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: http://www.whitehouse.gov/omb/fedreg/2008/081308_ffr.pdf

Federal Financial Report Form (SF-425): http://www.whitehouse.gov/omb/grants_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. A final SF-425 shall be submitted within 90 days after the expiration of the award. 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."

5. The Period of Performance in box 3 of the award document is deleted and replaced with the following:

FROM: 10/01/2007 TO: 05/31/2013

Base Period: October 01, 2007 -- May 31, 2013 (changed)

Total Agreement Amount: \$200,000.00 (changed)

Total Obligated Amount: \$200,000.00 (changed)

All terms and conditions remain the same.