

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

1. GRANT AGREEMENT NO. NRC-0-000-023	2. MODIFICATION NO. 12	3. PERIOD OF PERFORMANCE FROM: 8/24/98 TO: 02/09/2003	4. AUTHORITY Pursuant to Section 31a and 141b Atomic Energy Act of 1954, as am.
5. TYPE OF AWARD <input type="checkbox"/> GRANT <input checked="" type="checkbox"/> COOPERATIVE AGREEMENT	6. ORGANIZATION TYPE	7. RECIPIENT NAME AND ADDRESS University of Maryland Department of Materials & Nuclear Engineering, Building 090 College Park, Md 20742	

8. PROJECT TITLE
Probabilistic Assessment and Applications

9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S 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 AND ADDRESS University of Maryland Materials and Nuclear Engineering Dept. Attn: Prof. Mohammad Modarres 2100 Marie Mount Hall College Park, MD 20742
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12. NRC PROGRAM OFFICE (NAME ADDRESS) U.S. Nuclear Regulatory Commission Office of Nuclear Regulatory Research Attn: Roy Woods Washington, DC 20555 301-415-6622	13. ACCOUNTING APPROPRIATION DATA APPN NO. 31X0200.260 BR NO: 26060401710 JOB CODE: F6592/F6593 BOC NO: 4110 OFFICE ID NO: RES-C02-002/003	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) ACH (See Attach 30 in Appendix A - "Electronic Payment")
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15. NRC OBLIGATION FUNDS	16. TOTAL FUNDING AGREEMENT
THIS ACTION \$93,159.00	NRC \$1,428,349.00 This action provides funds for Fiscal Year 2002 in the amount of \$93,159.00
PREVIOUS OBLIGATION \$1,448,124.00	RECIPIENT \$0.00
TOTAL \$1,541,283.00	TOTAL \$1,428,349.00

17. NRC ISSUING OFFICE (NAME AND ADDRESS)
U.S. Nuclear Regulatory Commission
Division of Contracts and Property Mgt.
Attn: T-1-I-2
Contract Management Branch No. 1
Washington DC 20555

18. RECIPIENT <i>Evan Crierie</i> (Signature) Evan Crierie, Contract Manager NAME (TYPED) Research Administration & Advancement Univ. of Maryland, College Park, MD 20742 TITLE - Phone: (301)405-6269 Fax: (301)314-9569 TELEPHONE NO.	19. NRC CONTRACTING OFFICER <i>Robert Webster</i> (Signature) Mary H. Mace NAME (TYPED) <i>for</i> Mary H. Mace TITLE Contracting Officer TELEPHONE NO. 301-415-7314
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20. PAYMENT INFORMATION

Payment will be made within thirty (30) days after receipt of the billing unless the bill is improper or the recipient has failed to comply with the program objectives, award conditions, Federal reporting requirements or other conditions specified in OMB Circular A-110

Payment will be made by: _____ Vouchers should be submitted in an original and three (3) copies on form 270 to:

U.S. Nuclear Regulatory Commission
Office of the Chief Financial Officer
Attn: GOV/COM Acctng. Section T-9H4
Washington DC 20555

21. Attached is a copy of the "NRC General Provisions for Grants and Cooperative Agreements Awarded to Institutions of Higher Education and Other Nonprofit Organizations". 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

ADM02

ADM001

U.S. Nuclear Regulatory Commission
Cooperative Agreement No. NRC-04-98-056
Modification No. 12

The purpose of this modification is to: (1) incorporate Task 6 in accordance with the contractor's proposal dated September 21, 2001, which is hereby incorporated by reference, (2) increase the ceiling amount by \$93,159, (3) increase the obligated amount by \$93,159, and (4) identify the period of performance for Task 6. Accordingly, the cooperative agreement is modified as follows:

1. Incorporate Task 6 entitled "AP100 LBLOCA Uncertainty Analysis" which is in accordance with the contractor's proposal dated September 21, 2001. As a result, the ceiling amount is hereby increased by \$93,159 from \$1,335,190 to \$1,428,349, and the obligated amount is increased by \$93,159 from \$1,148,124 to \$1,241,283.
2. The period of performance for Task 6 is December 1, 2001 through November 30, 2002.

All other terms and conditions of this cooperative agreement remain unchanged.