

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

1. GRANT/AGREEMENT NO. NRC-HQ-11-G-04-0060	2. MODIFICATION NO. M001	3. PERIOD OF PERFORMANCE FROM: 9/21/2011 TO: 04/26/2013	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 Public State-Controlled Institution of Higher ED DUNS: 001425594 NAICS: 611310	7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS Massachusetts Institute of Technology 77 Massachusetts Avenue E19-750 Cambridge, MA 02139-4307																
8. PROJECT TITLE: <p align="center">Evaluating the Safety of Digital Instrumentation and Control Systems in Nuclear Power Plants</p>																		
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 Nancy Leveson, Ph.D. Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02142 Email: leveson@mit.edu , Phone: 617-258-0505																
12. NRC PROGRAM OFFICE (NAME and ADDRESS) NRC Attn: Heather Dempsey, Heather.Dempsey@nrc.gov Office of Regulatory Research MS: CS C6-D20, (301) 251-7666 11545 Rockville Pike Rockville, Maryland 20852 Tech Analyst: Luis Betancourt, Luis.Betancourt@nrc.gov	13. ACCOUNTING and APPROPRIATION DATA APPN. NO: 31X0200 B&R NO: 2013-60-11-6-119 JOB CODE: G6018 BOC NO: 4110 OFFICE ID NO: RFPA: RES-13-003 FAMIS: RES-C13-003	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) Electronic ASAP.gov (See Remarks in Item #20 "Payment Information")																
15. NRC OBLIGATION FUNDS <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">THIS ACTION</td> <td style="text-align: right; border-bottom: 1px solid black;">\$0.00</td> </tr> <tr> <td>PREVIOUS OBLIGATION</td> <td style="text-align: right; border-bottom: 1px solid black;">\$174,535.36</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right; border-bottom: 1px solid black;">\$174,535.36</td> </tr> </table>		THIS ACTION	\$0.00	PREVIOUS OBLIGATION	\$174,535.36	TOTAL	\$174,535.36	16. TOTAL FUNDING AGREEMENT <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">NRC</td> <td style="text-align: right; border-bottom: 1px solid black;">\$174,535.36</td> <td style="width:70%; vertical-align: top;">This action provides funds for Fiscal Year FY2013 in the amount of</td> </tr> <tr> <td>RECIPIENT</td> <td style="text-align: right; border-bottom: 1px solid black;">\$0.00</td> <td style="text-align: right; vertical-align: top;">\$0.00</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right; border-bottom: 1px solid black;">\$174,535.36</td> <td></td> </tr> </table>		NRC	\$174,535.36	This action provides funds for Fiscal Year FY2013 in the amount of	RECIPIENT	\$0.00	\$0.00	TOTAL	\$174,535.36	
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17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: M'Lita Carr Email: MLita.Carr@NRC.GOV Mail Stop: TWB-01-B10M Rockville MD 20852																		
18. <p align="center">Signature Not Required</p>		19. NRC CONTRACTING OFFICER <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%; text-align: center;"><i>M'Lita Carr</i></td> <td style="width:40%; text-align: center;">10/25/2012</td> </tr> <tr> <td style="text-align: center;">(Signature)</td> <td style="text-align: center;">(Date)</td> </tr> <tr> <td>NAME (TYPED)</td> <td style="border-bottom: 1px solid black;">M'Lita Carr</td> </tr> <tr> <td>TITLE</td> <td style="border-bottom: 1px solid black;">Contracting Officer</td> </tr> <tr> <td>TELEPHONE NO.</td> <td style="border-bottom: 1px solid black;">301-492-3464</td> </tr> </table>		<i>M'Lita Carr</i>	10/25/2012	(Signature)	(Date)	NAME (TYPED)	M'Lita Carr	TITLE	Contracting Officer	TELEPHONE NO.	301-492-3464					
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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 001 is to:

1. Extend the period of performance at no additional cost to the government;
2. Update Project Manager.

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: 09/21/2011 TO: 04/26/2013"
 - 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 21, 2011. The estimated completion date of this Grant is April 26, 2013.

2. Funds obligated in this grants are available for program expenditures for the estimated period:
September 21, 2011 – April 26, 2013
2.
 - 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: Luis Betancourt, Luis.Betancourt@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, Luis Betancourt (TA)"

Base Period: September 21, 2011 – April 26, 2013 (changed)
Assistance Award Ceiling: \$174,535.36 (unchanged)
NRC Total Obligated Amount: \$174,535.36 (unchanged)

All terms and conditions remain the same.