U.S. NUCLEAR REGULATORY COMMISSION NOTICE OF GRANTIASSISTANCE AWARD

1. GRANT/AGREEMENT NO.		2. MODI	FICATION N			OF PERFORMA		4. AUTHORITY	<u> </u>	
NRC-04-10-165		M002		- 1	FROM: 09/3		0: 09/30/2013	Pursuant to Section 3	1b and 141b of the	
5. TYPE OF AWARD		ORGANIZATION TYPE     Public State Controlled Institution			n of Higher	PENNSYLVA	110 TO: 09/30/2013 Pursuant to Section 31b an Atomic Energy Act of 1954,  7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS PENNSYLVANIA STATE UNIVERSITY, THE		1954, as amended PRESS	
X GRANT		Education				PENN STAT	PENN STATE			
1 🗎		DUNS: 003403953				408 OLD W	408 OLD MAIN			
COOPERATIVE AGREEMENT		NAICS: 611310				UNIVERSITY PARK PA 168021505				
A DECITED F	ment of TRACE with Interfacial Area Trar				4 14 - 4 - 1 -	not Models				
8. PROJECT TITLE: Expeni	nents for Develo	pment of	TRACE With	interraciai	Area I rans	on iviodeis				
9. PROJECT WILL BE COND	10. TECHNICAL REPORTS ARE REQUI				D 11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS					
PER GOVERNMENT'S/RECIPIENT'S		PROGRESS AND FINAL				Dr. Seungjin Kim				
PROPOSAL(S) DATED								venie Ctata I leiv		
AND ARRESTED A RECUEST		FINAL ONLY					Assistant Professor, Pennsylvania State Univ.			
AND APPENDIX A-PROJECT GRANT PROVISIONS		OTHER (Conference Proceedings)				University Park, PA 16802; E-mail: Sxk86@psu.edu				
12. NRC PROGRAM OFFICE	12. NRC PROGRAM OFFICE (NAME and ADDR U.S. Nuclear Regulatory Commission					ATION DATA 14. METHOD OF PAYMENT				
Office of Nuclear Regulatory	Office of Nuclear Regulatory Research			AFFN. NO. 31X0200			ADVANCE BY TREASURY CHECK			
ATTN: Heather Dempsey, Heather.Dempsy@n						REIMBURSEMENT BY TREASURY CHECK		Y CHECK		
Mail Stop CSB C6-D20 Washington, DC 20555	JOB CODE: G6005			5	LETTER OF CREDIT					
301-251-7401			BOC NO: 4110						0.0	
Kirk Tien, TA, Kirk Tien@nrc.gov			OFFICE ID NO: RES-13-016 FAMIS: GR00275				X OTHER (SPECIFY) Electronic ASAP.gov (See Remarks in Item #20 "Payment Information")			
15. NRC OBLIGATION FUND	S		FAMIS:			AGREEMENT				
THIS ACTION	\$75,393.00	93.00 NRC \$22			\$224,98	38.00	This action provides funds for Fiscal Year FY13 in the amount of \$75,393.00			
PREVIOUS OBLIGATION	\$149,595.00		_				-			
			RECIPIENT			9.00	-			
TOTAL \$224,988.00			_	IOIAL	\$224,98		•			
17. NRC ISSUING OFFICE (N	AME, ADDRESS	and EM	AIL ADDRES	SS)			·	· · · · · · · · · · · · · · · · · · ·		
U.S. Nuclear Regul Div. of Contracts Attn: M'Lita Cari Mail Stop: TWB-01- Washington, DC 205 MLita.Carr@nrc.gov	: -B10M 55	ssion				V 150 00 00	OTIVO OCCIO			
18.					18	. NRC CONTRA	ACTING OFFICE M'Lita (		11/20/2012	
Signature Not Required				N	(Signature	e) M`Lita Carr	(Date)			
					Í,	TLE	Grants Office		_	
				''	166	A CONTRACTOR OF THE PARTY OF TH		_		
					T	ELEPHONE NO.	301-492-3464	L	_	
20. PAYMENT INFORMATION										
Payment will be made through award conditions, Federal repo								o comply with the progra	am objectives,	
·										
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							- >			
22. ORDER OF PRECEDENC			,				•			
In the event of a conflict between						<del></del>				
23. By this award, the Recipier	t certifies that pa	syment of	any audit-re	lated debt	will not redu	ce the level of pe	erformance of an	y Federal Program.		

SUNSI REVIEW COMPLETE



## **DESCRIPTION OF MODIFICATION:**

The purpose of this modification M002 is:

- 1. Provide incremental funding in the amount of \$75,393.00;
- 2. Change the NRC Project Manager;
- 3. Revise Financial and Performance reporting requirements.

As a result of this modification:

1.

- A. The obligated amount of the grant has increased by \$75,393.00 from \$149,595.00 to \$224,988.00 to fully fund the grant;
- B. 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, <u>Heather.Dempsey@nrc.gov</u>
Mail Stop: C5A24M
Washington, DC 20555
Kirk Tien, Technical Analyst, Kirk.Tien@nrc.gov"

2.

- A. ATTACHMENT A SCHEDULE, Section A.GENERAL item number 2 entitled "Total Obligated Amount", delete in its entirety and replace with the following:
  - "2. Total Obligated Amount: \$75,393.00"
- 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, Kirk Tien, TA"
- C. ATTACHMENT C STANDARD TERMS AND CONDITIONS, entitled "Monitoring and Reporting § 215.50-53" section B Federal Financial Reports is deleted in its entirety and replaced with the following:

## "b. Federal Financial Reports

The Grantee shall submit a "Federal Financial Report" (SF-425) on a quarterly basis for the periods ending March 31, June 30, September 30, and December 31, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period. A final SF-425 is due within 90 days after expiration of the award. The report should be submitted electronically to the following:

- 1. Grants FFR@NRC.gov (NOTE: There is an underscore between Grants and FFR);
- 2. RESGrants.Resource@NRC.gov;
- 3. Technical Analyst; and
- 4. Grants Officer."
- E. ATTACHMENT C STANDARD TERMS AND CONDITIONS entitled "III. Programmatic Requirements" section Performance (Technical) Reports is deleted in its entirety and replaced with the following:

## "Performance (Technical) Reports

- a. The Grantee shall submit performance (technical) reports electronically to the NRC Project Officer and Grants Officer on a quarterly for the periods ending March 31, June 30, September 30, and December 31, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period. The report should be submitted electronically to the following:
- 1. Grants PPR@NRC.gov (NOTE: There is an underscore between Grants and PPR);
- RESGrants.Resource@NRC.gov;
- 3. Technical Analyst; and
- 4. Grants Officer.
- b. Unless otherwise specified in the award provisions, performance (technical) reports shall contain brief information as prescribed in the applicable uniform administrative requirements 2 CFR §215.51 which are incorporated in the award.
- c. The Office of Regulatory Research requires the submission of progress reports on the SF-RPPR on a quarterly basis for the periods ending March 31, June 30, September 30, and December 31, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period."

Base Period: September 30, 2010 - September 30, 2013 (unchanged)

Total Contract Amount: \$224,988.00 (unchanged)
Total Obligated Amount: \$224,988.00 (changed)

All terms and conditions remain the same.