		I	+			ORY COMMIS				
GRANT/AGREEMENT NO. NRC-04-10-165		2. MODIFICATION NO.			3. PERIOD OF PERFORMAN			4. AUTHORITY Pursuant to Section 31 Atomic Energy Act of 1	b and 141b of the	
5. TYPE OF AWARD		6. ORGANIZATION TYPE Public State Controlled Instituti Education					NIA STATE UNI	RESS, and EMAIL ADDR		
X GRANT										
		DUNS: 003403953 NAICS: 611310					408 OLD MAIN UNIVERSITY PARK PA 168021505			
8. PROJECT TITLE: Experime	ents for Develo	pment of ⁻	RACE with I	nterfacial A	vrea Transp	port Models				
9. PROJECT WILL BE CONDU	CTED	10. TECHNICAL REPORTS ARE			REQUIRE	D 11. PRINCIP	11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS			
PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED		PROGRESS AND FINAL			Dr. Se		eungjin Kim			
						Assistant Pro	Assistant Professor, Pennsylvania State Univ.			
AND APPENDIX A-PROJECT		OTHER (Conference Proce			edings)	University Park, PA 16802; E-mail: <u>Sxk86@psu.edu</u>			F	
12. NRC PROGRAM OFFICE (U.S. Nuclear Regulatory Comm Office of Nuclear Regulatory R ATTN: Robin Barnes Mail Stop CSB C6-D20 Washington, DC 20555 301-251-7401	AFFN. NO. 31AC			0		14. METHOD OF PAYMENT DADVANCE BY TREASURY CHECK REIMBURSEMENT BY TREASURY CHECK LETTER OF CREDIT TY OTHER (SPECIFY) Electronic ASAP.gov				
Kirk Tien, TA			DFFICE ID N FAMIS:	O: RES-11 GR0020				in Item #20 "Payment Info		
15. NRC OBLIGATION FUNDS	16.				G AGREEMENT		This action provides funds for Fiscal Year 2011			
THIS ACTION			NRC	\$224,9	88.00	in the amount of \$76,851.00				
REVIOUS OBLIGATION \$72,744.00		_				_				
TOTAL	<u>\$149,595.00</u>		_	TOTAL	\$224,9	88.00	-			
17. NRC ISSUING OFFICE (NA U.S. Nuclear Regul Div. of Contracts Attn: M`Lita Carr Mail Stop: TWB-01- Washington, DC 2055 MLita.Carr@nrc.gov 18.	atory Commi B10M		AIL ADDRES	SS)	- 	9. NRC CONTRA		R		
Signature Not Requir				•	(Signature IAME (TYPED)	heila	Buryan	<u>77/11</u> (Date)		
					Т	ELEPHONE NO.		184	_	
20. PAYMENT INFORMATION Payment will be made through t	the Automated	Standard	Application f	or Paymen	t (ASAP.go	ov) unless the rec	ipient has failed t	to comply with the progra	am objectives.	
award conditions, Federal repo										
21. Attached is a copy of the "N	RC General P	rovisions	for Grants and	d Cooperat	ive Agreen	nents Awarded to	Non-Governmen	nt 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.



SUNSI REVIEW COMPLETE

NDM002

DESCRIPTION OF MODIFICATION:

The purpose of this modification M001 is:

- 1. Provide incremental funding in the amount of \$76,851.00;
- 2. Change the NRC Project Manager;
- 3. Add Financial and Performance reporting requirements.

As a result of this modification:

- 1. The obligated amount of the grant has increased by \$76,851.00 from \$72,744.00 to \$149,595;
- 2. Robin Barnes has replaced Kirk Tien as the NRC Project Manager and Mr. Tien is hereby designated as the Technical Analyst;
- 3. In section b. entitled "Federal Financial Reports" under Monitoring and Reporting 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: <u>http://www.whitehouse.gov/omb/fedreg/2008/081308_ffr.pdf</u> Federal Financial Report Form (SF-425): <u>http://www.whitehouse.gov/omb/grants_forms/</u>

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 section III. 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, 2013 (unchanged)Total Contract Amount:\$224,988.00 (unchanged)Total Obligated Amount:\$149,595.00 (changed)

All terms and conditions remain the same.