

Grant and Cooperative Agreement

CHOOSE ONE:

- COOPERATIVE AGREEMENT
 GRANT

CHOOSE ONE: EDUCATION FACILITIES RESEARCH SDCR TRAINING

1. GRANT/COOPERATIVE AGREEMENT NUMBER NRC-HQ-13-G-38-0003	2. SUPPLEMENT NUMBER M0001	3. EFFECTIVE DATE 08/05/2016	4. COMPLETION DATE
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5. ISSUED TO NAME/ADDRESS OF RECIPIENT (No., Street, City/County, State, Zip) PENN STATE 201 OLD MAIN UNIVERSITY PARK PA 168021505	6. ISSUED BY U.S. NRC - HQ Mailing Address: Acquisition Management Division Mail Stop: TWFN-5E03 Washington DC 20555-0001
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7. TAXPAYER IDENTIFICATION NO. (TIN)	9. PRINCIPAL INVESTIGATOR/ORGANIZATION'S PROJECT OR PROGRAM MGR. (Name & Phone) Dr. Karen Thole Email: kthole@psu.edu Phone: (814) 865-2519
8. COMMERCIAL & GOVERNMENT ENTITY (CAGE) NO.	

10. RESEARCH, PROJECT OR PROGRAM TITLE
Faculty Development Grant for Sensor Development and Control Methods in Nuclear Power Plants

11. PURPOSE
See Schedule

12. PERIOD OF PERFORMANCE (Approximately)
08/01/2013 through 07/31/2017

13A.	AWARD HISTORY	13B.	FUNDING HISTORY
PREVIOUS	\$450,000.00	PREVIOUS	\$450,000.00
THIS ACTION	\$0.00	THIS ACTION	\$0.00
CASH SHARE	\$0.00	TOTAL	\$450,000.00
NON-CASH SHARE	\$0.00		
RECIPIENT SHARE	\$150,000.00		
TOTAL	\$450,000.00		

14. ACCOUNTING AND APPROPRIATION DATA

PURCHASE REQUEST NO.	JOB ORDER NO.	AMOUNT	STATUS

15. POINTS OF CONTACT

	NAME	MAIL STOP	TELEPHONE	E-MAIL ADDRESS
TECHNICAL OFFICER	NANCY V. HEBRON-ISREAL		301-287-0178	Nancy.Hebron-Isreal@nrc.gov
NEGOTIATOR				
ADMINISTRATOR	GORDANA ZUBER		301-415-5002	gordana.zuber@nrc.gov
PAYMENTS				

16. THIS AWARD IS MADE UNDER THE AUTHORITY OF:
Pursuant to Section 31b and 141b of the Atomic Energy Act of 1954, as amended.

17. APPLICABLE STATEMENT(S), IF CHECKED: <input type="checkbox"/> NO CHANGE IS MADE TO EXISTING PROVISIONS <input type="checkbox"/> FDP TERMS AND CONDITIONS AND THE AGENCY-SPECIFIC REQUIREMENTS APPLY TO THIS GRANT	18. APPLICABLE ENCLOSURE(S), IF CHECKED: <input type="checkbox"/> PROVISIONS <input type="checkbox"/> SPECIAL CONDITIONS <input type="checkbox"/> REQUIRED PUBLICATIONS AND REPORTS
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UNITED STATES OF AMERICA	COOPERATIVE AGREEMENT RECIPIENT
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CONTRACTING/GRANT OFFICER ERIKA EAM <i>Erika Eam</i>	DATE 08/09/2016	AUTHORIZED REPRESENTATIVE	DATE
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ITEM NO. (A)	ITEM OR SERVICE (Include Specifications and Special Instructions) (B)	QUANTITY (C)	UNIT (D)	ESTIMATED COST	
				UNIT PRICE (E)	AMOUNT (F)
	<p>CFDA Number: 77.008 NRC-HQ-13-G-38-0003 ZEROREQ-OCHCO-16-0172</p> <p>The purpose of this modification is to extend the period of performance and to revise budget.</p> <p>As a result of this modification:</p> <p>1. ATTACHMENT A - SCHEDULE, A. Section A.2 PERIOD OF GRANT, delete in its entirety and replace with the following:</p> <p>"1. The effective date of this Grant is August 1, 2013. The completion date of this Grant is July 31, 2017.</p> <p>2. Funds obligated in this grants are available for program expenditures for the period: August 1, 2013 - July 31, 2017"</p> <p>B. Section A.4 AMOUNT OF AWARD AND PAYMENT PROCEDURES, delete in its entirety and replace with the following:</p> <p>"1. The total estimated amount of this award is \$450,000.00 plus \$150,000.00 in cost share for a four year period."</p> <p>Please see additional page for approved revised budget.</p> <p>Payment: ASAP GRANT FUNDS REIMBURSEMENT SYS US TREASURY</p> <p>Period of Performance: 08/01/2013 to 07/31/2017</p>				