

# Grant and Cooperative Agreement

CHOOSE ONE:

- COOPERATIVE AGREEMENT  
 GRANT

CHOOSE ONE:  EDUCATION  FACILITIES  RESEARCH  SDCR  TRAINING

1. GRANT/COOPERATIVE AGREEMENT NUMBER NRC-HQ-12-G-38-0050	2. SUPPLEMENT NUMBER M0002	3. EFFECTIVE DATE 04/07/2015	4. COMPLETION DATE 04/15/2016
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5. ISSUED TO NAME/ADDRESS OF RECIPIENT (No., Street, City/County, State, Zip) RFCUNY - CITY COLLEGE CONVENT AVE & 138TH ST NEW YORK NY 10031	6. ISSUED BY U.S. NRC - HQ <b>Mailing Address:</b> 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) Dean Joe Barba Phone, 212-650-5435; Email barba@ccny.edu
8. COMMERCIAL & GOVERNMENT ENTITY (CAGE) NO.	

10. RESEARCH, PROJECT OR PROGRAM TITLE  
 Application of Microfluidic Electrochemistry to Understand Crud Formation and Materials Degradation in Nuclear Energy Applications

11. PURPOSE  
 See Schedule

12. PERIOD OF PERFORMANCE (Approximately)  
 04/16/2012 through 04/15/2016

13A.	AWARD HISTORY	13B.	FUNDING HISTORY
PREVIOUS	\$353,191.00	PREVIOUS	\$353,191.00
THIS ACTION	\$0.00	THIS ACTION	\$0.00
CASH SHARE	\$0.00	<b>TOTAL</b>	\$353,191.00
NON-CASH SHARE	\$0.00		
RECIPIENT SHARE	\$145,000.00		
<b>TOTAL</b>	<b>\$353,191.00</b>		

14. ACCOUNTING AND APPROPRIATION DATA  
 0000-00000-RECON-00-000000-00-0-000-00000-0000

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	3WFN 3 A26	301-287-0718	Nancy.Hebron-Isreal@nrc.gov
NEGOTIATOR				
ADMINISTRATOR	GEOFFREY COLEMAN		301-415-5517	Geoffrey.Coleman@nrc.gov
PAYMENTS				

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

17. APPLICABLE STATEMENT(S), IF CHECKED: <input checked="" 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 M'LITA R. CARR	DATE 04/08/2015	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)
	CFDA Number: 77.008 NRC-HQ-12-G-38-0050 ZEROEQ-OCHCO-15-0135  The purpose of this modification is to extend the period of performance at no additional cost to the government and change the Grant Specilaist.  See the continuation page for detailed changes. Payment: ASAP GRANT FUNDS REIMBURSEMENT SYS US TREASURY Period of Performance: 04/16/2012 to 04/15/2016				

As a result of this modification:

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:  
04/16/2012 through 04/15/2016"

B. ATTACHMENT A – SCHEDULE, Section A.2 PERIOD OF GRANT, delete in its entirety and replace with the following:

"1. The effective date of this Grant is April 16, 2012. The estimated completion date of this Grant is April 15, 2016.

2. Funds obligated in this grants are available for program expenditures for the estimated period: April 16, 2012– April 15, 2016."

C. Section A.4 AMOUNT OF AWARD AND PAYMENT PROCEDURES, delete in its entirety and replace with the following:

"1. The total estimated amount of this Award is \$498,191.00 which includes \$145,000.00 towards cost share for a four year period."

D. Block 17 of the Notice of Grant Assistance Award is deleted in its entirety and replaced with the following:

"U.S. Nuclear Regulatory Commission  
Acquisition Management Division  
ATTN: Geoffrey Coleman, 301-415-5517  
Mail Stop: T5 E12  
Washington, DC 20555  
Geoffrey.Coleman@nrc.gov"

All other terms and conditions will remain unchanged.