

Grant and Cooperative Agreement

CHOOSE ONE:

- ☒ COOPERATIVE AGREEMENT
- ☐ GRANT

CHOOSE ONE:

☐ EDUCATION☐ FACILITIES☒ RESEARCH☐ SDCR☐ TRAINING

1. GRANT/COOPERATIVE AGREEMENT NUMBER

NRC-HQ-60-14-G-0009

2. SUPPLEMENT NUMBER

M0002

3. EFFECTIVE DATE

05/03/2016

4. COMPLETION DATE

5. ISSUED TO

NAME/ADDRESS OF RECIPIENT (No., Street, City/County, State, Zip)
ELECTRIC POWER RESEARCH INSTITUTE, INC.
3420 HILLVIEW AVE
PALO ALTO CA 943041338

6. ISSUED BY

U.S. NRC - HQ

Mailing Address: Acquisition Management Division

Mail Stop: 3WFN-05-C64MP

Washington DC 20555-0001

7. TAXPAYER IDENTIFICATION NO. (TIN)

9. PRINCIPAL INVESTIGATOR/ORGANIZATION'S PROJECT OR PROGRAM MGR. (Name & Phone)

Jean Smith, PhD PE

8. COMMERCIAL & GOVERNMENT ENTITY (CAGE) NO.

Email: JMSmith@epri.com; Phone: 650-855-8775

10. RESEARCH, PROJECT OR PROGRAM TITLE

Irradiation-Assisted Degradation of Vessel Internals Materials

11. PURPOSE

See Schedule

12. PERIOD OF PERFORMANCE (Approximately)

09/30/2014 through 09/29/2018

13A.	AWARD HISTORY	13B.	FUNDING HISTORY
PREVIOUS	\$1,000,000.00	PREVIOUS	\$666,379.73
THIS ACTION	\$428,157.30	THIS ACTION	\$761,777.57
CASH SHARE	\$0.00	TOTAL	\$1,428,157.30
NON-CASH SHARE	\$0.00		
RECIPIENT SHARE	\$2,310,106.00		
TOTAL	\$1,428,157.30		

14. ACCOUNTING AND APPROPRIATION DATA

See Schedule

PURCHASE REQUEST NO.	JOB ORDER NO.	AMOUNT	STATUS
RES-16-0342			

15. POINTS OF CONTACT

	NAME	MAIL STOP	TELEPHONE	E-MAIL ADDRESS
TECHNICAL OFFICER	SARAH B. SHAFFER	C6D26	301-251-7942	SARAH.SHAFFER@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:

- ☒ NO CHANGE IS MADE TO EXISTING PROVISIONS
- ☐ FDP TERMS AND CONDITIONS AND THE AGENCY-SPECIFIC REQUIREMENTS APPLY TO THIS GRANT

18. APPLICABLE ENCLOSURE(S), IF CHECKED:

- ☐ PROVISIONS ☐ SPECIAL CONDITIONS
- ☐ REQUIRED PUBLICATIONS AND REPORTS

UNITED STATES OF AMERICA

COOPERATIVE AGREEMENT RECIPIENT

CONTRACTING/GRANT OFFICER

ERIKA EAM

Erika EAM

DATE

05/03/2016

AUTHORIZED REPRESENTATIVE

DATE

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

MAY 06 2016

ADM002

Grant and Cooperative Agreement

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: 77.009</p> <p>The purpose of this modification is to 1) Propose Additional Work Scope, 2) Increase the Ceiling, and 3) Incremental Funding. As a result of this modification, the following changes are to be made to the cooperative agreement:</p> <p>1) " IV. Scope</p> <p>The scope of this modification pertains to an additional task effort related to Task 1: Research, Subtask B. Additional Zorita Materials Harvesting and Sample Preparation of the current Scope of Work.</p> <p>Additional Zorita materials samples will be prepared to support subsequent testing as described in Task 1, Subtask A. Sample preparation will be performed at Studsvik in Sweden.</p> <p>Specifically, this modification includes the following additional effort related to the existing scope of work:</p> <ul style="list-style-type: none"> • Development of cutting plans and coarse cutting of suitable pieces from the Zorita baffle plate, weld, and HAZ materials; • Machining of fourteen (14) 1/4T compact tensions (CT) specimens; • Machining of seven (7) tensile specimens; • Cutting of four (4) TEM blanks; • Dimensional measurements and photographic documentation of the specimens; • Dose rate measurements of the specimens and smear tests to determine surface contamination levels; • Preparation of a report documenting the fabrication and irradiation history of the <p>Continued ...</p>				

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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>specimens;</p> <ul style="list-style-type: none"> • Shipment of the specimens to Argonne National Laboratory (ANL); • Disposal of the waste arising from the fabrication of specimens, and • Project coordination between NRC and Studsvik. <p>This scope of work assumes that the title of ownership of the specimens listed above will be transferred from Studsvik to ANL, and final disposal of the specimens and their byproducts of testing is the responsibility of ANL."</p> <p>2) Increase the Ceiling from \$1,000,000.00 to \$1,428,157.30;</p> <p>3) Incrementally fund Cooperative Agreement in the amount of 761,777.57; there by increasing the total obligated amount from 761,777.57 to \$1,428,157.30.</p> <p>All other terms and conditions remain the same.</p> <p>Period of Performance: 09/30/2014 to 09/29/2018</p>				