

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   1
2. AMENDMENT/MODIFICATION NO. 328	3. EFFECTIVE DATE 02/14/2013	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Savannah River Operations U.S. Department of Energy Savannah River Operations P.O. Box A Aiken SC 29802	CODE 00901	7. ADMINISTERED BY (If other than Item 6) Savannah River Operations U.S. Department of Energy Savannah River Operations P.O. Box A Aiken SC 29802	CODE 00901
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC Attn: LLOYD CLEVINGER 203 LAURENS ST SW AIKEN SC 298012421		(x) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE 798861048	FACILITY CODE	X 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC09-08SR22470	10B. DATED (SEE ITEM 13) 01/10/2008
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
12. ACCOUNTING AND APPROPRIATION DATA (If required) No Change in accounting data			
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>			
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.		
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b)		
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:		
X	D. OTHER (Specify type of modification and authority) Section I, DEAR 970.5211-1 Work Authorization (May 2007)		

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return 0 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

A. The purpose of this modification is to incorporate Contract Work Authorization numbers 110003-TechSupt for SRNL Technical Support; and AOP #WWPP-FY12, for Wind and Hydropower Technologies Program, Agreement #25716 (See attachments 1 and 2), hereto.

B. This modification formally incorporates the above referenced contract work authorizations as part of the contract. Fund authorizations were provided under separate modifications under FINPLAN #7, FY 2013, and FINPLAN #18, FY 2012. As stated under DEAR 970.5211-1 Work Authorization (May 2007), paragraph (b), the work authorization, whether issued bilaterally or unilaterally shall become a part of the contract.

C. The contract estimated value and all other terms and conditions remain unchanged.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James Lovett	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	02/14/2013

# Contract Work Authorizations

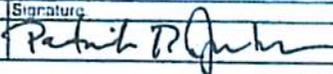
<u>Attachment</u>	<u>Work Proposal Number</u>	<u>Project Title</u>
1	110003-TechSup	SRNL Technical Support (1 page)
2	AOP #WWPP-FY12	Wind and Hydropower Technical Program, Agreement #25716 (2 pages)

**Attachment 1**

**No. 110003-TechSupp**

**Project Title: SRNL Technical Support**

U. S. DEPARTMENT OF ENERGY  
CONTRACT WORK AUTHORIZATION

<b>1a. Project Title</b> SRNL Technical Support		<b>1b. Work Proposal Number</b> 110003-TechSupt	
<b>2. Headquarters Program Point of Contact</b>			
<b>Name</b>	<b>Organizational Code</b>	<b>Telephone</b>	
Maureen O'Dell	EM-11	301-903-4638	
<b>3. Headquarters Budget Point of Contact</b>			
<b>Name</b>	<b>Organizational Code</b>	<b>Telephone</b>	
Tracey Whipp	EM-61	301-903-7157	
<b>4. Responsible Program</b> Office of Environmental Management		<b>5. Responsible Secretarial Officer</b> Tracy Mustin	
<b>6. Responsible Field Organization</b> U.S. Department of Energy, Savannah River Operations			
<b>7a. Site and Facility Management Contractor</b> Savannah River Nuclear Solutions, LLC		<b>7b. Contractor Point of Contact</b>	
		Name: John W. Temple	Telephone No. (803) 952-7210
<b>8. Work Authorization Number</b> 410003-TechSupt		<b>9. Revision Number</b> 1	
<b>10. Funds Authorized (See Note below)</b>			
NOTE: Reference Appropriation Act for Fiscal Year 2013. *Appropriations and funds made available and authority granted pursuant to this joint resolution shall be available until whichever of the following first occurs: (1) the enactment into law of an appropriation for any project or activity provided for in this joint resolution; (2) the enactment into law of the applicable appropriations Act for fiscal year 2013 without any provision for such project or activity; or (3) March 27, 2013. This is a distribution by the Program Office funds to continue funding Statement of Work			
<b>Date</b>	<b>Budget and Reporting Code</b>	<b>Project Value</b>	<b>Previous:    Change:    Current:</b>
Nov. 8	EY804910K	4074	\$ 35,000.00
Nov. 8	EY804910K	4202	\$ 60,000.00
Dec. 7	EY804910K	4074	\$ 70,000.00
Jan. 4	EY804910K	4074	\$ -45,000.00
Jan. 4	EY804910K	4202	\$ 15,000.00    \$ 165,000.00
<b>11. Performance Period Covered by Funds (See NOTE in Block 10)</b>		<b>12. Work Start Date</b>	<b>13. Expected Completion Date</b>
From: 10/1/2012    To: <del>9/30/2013</del> 3/27/13		From: 10/1/2012	To: <del>9/30/2013</del> 3/27/13
<b>14. Statement of Work (Includes attachments)</b>			
The Office of Environmental Compliance authorized the Savannah River National Laboratory to provide support comment resolution and updates to the technical standards, guides, and order in preparation for final issuance, follow NRC, IAEA, and other external developments that could impact the order; and develop text to address new information from external developments for the technical standards, guides, and order. Additionally, the Office of Environmental Compliance authorizes the Savannah River National Laboratory to provide technical support as needed to address waste management issues around the complex, review and provide comments on regulatory activities and follow LFRG related developments from external organizations, support new activities in preparation for implementation of the update to DOE Order 435.1, and participate in and provide briefings for LFRG meetings.			
<b>15. DOE-SR Program Point of Contact</b>			
<b>Name (printed):</b>	<b>Signature</b>	<b>Date</b>	
Patrick R. Jackson		01/29/13	
<b>16. DOE-SR Field Budget Official</b>			
<b>Name (typed):</b>	<b>Signature</b>	<b>Date</b>	
Harold K. Nielsen		1/31/13	
<b>17. Contractor's Authorized Representative</b>			
<b>Name (typed):</b>	<b>Signature</b>	<b>Date</b>	
John Temple		2/11/13	
<b>18. DOE Contracting Officer (or delegated representative)</b>			
<b>Name (typed):</b>	<b>Signature</b>	<b>Date</b>	
Scott Langston		2/11/13	

Attachment 2

No. AOP #WWPP-FY12

Project Title: Wind and Hydropower Technologies,  
Program Agreement #25716

**U. S. DEPARTMENT OF ENERGY  
CONTRACT WORK AUTHORIZATION**

<b>1a. Project Title</b> Wind and Hydropower Technologies Program: Agreement 026716		<b>1b. Work Proposal Number</b> AOP BHWPP-FY12	
<b>2. Headquarters Program Point of Contact</b> Name: Jose Zayas Organization Code: EE-20 Telephone: 202-287-8201			
<b>3. Headquarters Budget Point of Contact</b> Name: Timothy Murphy Organization Code: EE-38 Telephone: (202) 586-7128			
<b>4. Responsible Program</b> Office of Energy Efficiency and Renewable Energy		<b>5. Responsible Secretarial Officer</b> David Danielson	
<b>6. Responsible Field Organization</b> U.S. Department of Energy, Savannah River Operations			
<b>7a. Site and Facility Management Contractor</b> Savannah River Nuclear Solutions, LLC		<b>7b. Contractor Point of Contact</b> Name: John W. Temple Telephone No. (803) 852-7210	
<b>8. Work Authorization Number</b> WW-410003-13		<b>9. Revision Number</b> 0	
<b>10. Funds Authorized (See NOTE below)</b> NOTE: No additional funds are required to complete the Statement of Work. This program is already funded. Reference Appropriation Act for Fiscal Year 2013: "Appropriations and funds made available and authority granted pursuant to this joint resolution shall be available until whichever of the following first occurs: (1) the enactment into law of an appropriation for any project or activity provided for in this joint resolution; (2) the enactment into law of the applicable appropriations Act for fiscal year 2013 without any provision for such project or activity; or (3) March 27, 2013." Budget and Reporting Code: 882501010 Previous: \$250,000 Change: Current: \$250,000			
<b>11. Performance Period Covered by Funds (See NOTE in Block 10)</b> From: Oct. 1, 2012 To: Sep 30, 2013		<b>12. Work Start Date</b> From: Oct. 1, 2012 To: Sep 30, 2013	
<b>13. Expected Completion Date</b> To: Sep 30, 2013			
<b>14. Statement of Work (includes attachments)</b> Funding in the amount of \$0.00 is authorized by the Wind and Hydropower Technologies Program to perform work in the area of WE 1.1.1 Clemson Grid Simulator Development Support SRNL will provide technical support to the Clemson DTTF/EGSL to (1) complete the data system for the 15 MW dynamometer at the DTTF, and (2) preparation of the design and purchase specifications of the control system for the EGSL.			
<b>15. DOE-ER Program Point of Contact</b>			
Name (typed): Patrick R. Jackson	Signature: <i>Patrick R. Jackson</i>	Date: 01/29/13	
Name (typed): Harold K. Nelson	Signature: <i>Harold K. Nelson</i>	Date: 1/31/13	
Name (typed): John Temple	Signature: <i>John Temple</i>	Date: 2/11/13	
Name (typed): Scott Langston	Signature: <i>Scott Langston</i>	Date: 2/11/13	

*Dep 2/14/13*

*Dep 2/14/13*

Electronically signed by Jose Zayas  
 fdc52c39-909e-4866-b377-d5754ccb29aa  
 Program Manager: Zayas, Jose  
 Site Officer:  
 Laboratory/Contractor:  
 Contracting Officer:

**MEMORANDUM FOR:** Terry Michalske, Savannah River Nuclear Solutions  
 Savannah River National Laboratory (SRNL)

**SUBJECT:** FY 2012 Wind and Hydropower Technologies Program Funding for Savannah River National Laboratory (SRNL)

In accordance with the approved Energy Efficiency and Renewable Energy Wind and Hydropower Technologies Program FY 2012 spend plan, funding has been planned for obligation and expenditure in accordance with program guidance as indicated below. Required changes can be completed via an Agreement Funds Transfer coordinated in the Corporate Planning System (CPS). The laboratory receiving the funds detailed in this letter will be responsible for reporting all funding obligations and cost to headquarters. The laboratory recipient must maintain obligations and cost data at the agreement level, and the data must be made available to Energy Efficiency and Renewable Energy.

**PROGRAM GUIDANCE:**

**Funding Summary**

B&R code	BA (\$)
EB2501010-05450-1004253	\$413,000.00

*Funding Action # 40538 (Regular, Operating), HQ POC: Derby, Michael R. , Field POC: Nichols, Ralph*

Agreement/solicitation ID & Title	B&R Code	Funding Amount
Agreement #25716 - WE 1.1 Wind Turbine Testing Facilities (SRNL)	EB2501010-05450-1004253	\$250,000.00

**Description of Work:** Agreement: 25716; WE 1.1 Wind Turbine Testing Facilities (SRNL)

SRNL will support Clemson University in the development of the 15MW Hardware in the Loop Grid Simulator project by assisting with the control system and data acquisition architecture and real time digital simulator specification and design:

- Control system architecture, specification (SRNL and Clemson)
- Real Time Digital Simulator specification and manufacturer interface (SRNL and Clemson)
- Data acquisition system design and specification (SRNL)
- Control system mockup and programming (SRNL)
- IT technical support to ensure cyber and data security (SRNL)
- Software/Hardware design of the interface between the RTDS and the Power Amplification System (SRNL)