

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 0582	3. EFFECTIVE DATE 10/13/2015	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)	CODE
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

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended. 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 to Accounting and Appropriation Data

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

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 No. HI-41003-15, Rev 6, for Fuel Cell Technologies (See Attachment 1-A). Funds were previously allocated by separate modification, reference SRNS Financial Plan Number 24, for Fiscal Year 2015 (applicable page of the FINPLAN is provided under Attachment 1-B).

B. This modification formally incorporates the above referenced contract work authorization as part of the contract. 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 9 A 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) Sylvia C. Maroney	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>Sylvia C. Maroney</i> (Signature of Contracting Officer)
		16C. DATE SIGNED 10/20/15

Contract Work Authorization Supporting Documentation Index

<u>Document No.</u>	<u>Work Proposal Number</u>	<u>Project Title</u>
A	HI-41003-15, Rev 6	Fuel Cell Technologies Office (8 pages), DOE-SR generated form with reviewers and approval concurrence, Hqts Work Authorization, and Memorandum, EE-2H Funds Summary Authorization.
B	FINPLAN #24	Page 4 (applicable page only)

Note: Funding previously allocated under FINPLAN 24, FY 2015. The Contract Work Authorization was reviewed via DOE- SR Electronic System for Approval. The generated Contract Work Authorization with the reviewers and/or approvals concurrences is considered the validated signed copy by all parties, inclusive of the above supporting documentation for official contract file for Modification No. 0582/STRIPE Procurement System.

Attachment 1-A

Work Authorization

Work Authorization Number HI-41003-15 Revision Number 6	U.S. DEPARTMENT OF ENERGY CONTRACT WORK AUTHORIZATION If you need assistance with this form contact Belinda Beckum 5-5352	Tracking Number CWA-2015-00101
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1a. Project Title: Fuel Cell Technologies	1b. Work Proposal Number (if applicable): AOP#8.5.0.901, AOP#4.2.902 AOP#4.1.0.951	1c. Performing Organization <input checked="" type="radio"/> SRNL <input type="radio"/> SRNS
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2. Headquarters Program Point of Contact.		
Name: Sunita Satyapal	Organization Code: EE-3F	Telephone No.: 202-586-2336

3. Headquarters Budget Point of Contact.		
Name: Marlon Harris	Organization Code: EE-3B	Telephone No.: 202-586-2084

4. Responsible Program: Office of Energy Efficiency and Renewable Energy	5. Responsible Secretarial Officer: David Danielson
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6. Responsible Field Organization U.S. Department of Energy (DOE), Savannah River Operations (SR)

7a. Site and Facility Management Contractor: Savannah River Nuclear Solutions, LLC	7b. Contractor Point of Contact: Name: John Temple Telephone No.: 803-952-7210
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8. Work Authorization Number: HI-41003-15	9. Revision Number:* 6
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10. Funds Authorized (See note below)
 In accordance with the approved Energy Efficiency and Renewable Energy Fuel Cell Technologies Office FY 2015 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).

Date	B&R Code	Agreement / Project #	Project Value	Previous:	Change:	Current:
9/1/15	HT0201000-05450-1009191	26126		415,000.00	85,000.00	500,000.00
	HT0202000-05450-1009192	22272		400,000.00	200,000.00	600,000.00
	HT0500000-05450-1009195	24132		20,000.00	0.00	20,000.00
	HT0202000-05450-1009192	24099		810,000.00	0.00	810,000.00
	HT0201000-05450-1009191	13443		150,000.00	0.00	150,000.00
	HT0202000-05450-1009192	26363		0.00	0.00	0.00
	HT0100000-05450-1009190	28324		0.00	0.00	0.00
	Total			1,795,000.00	285,000.00	2,080,000.00

11. Performance Period Covered by Funds. (See NOTE in block 10)	12. Work Start Date:	13. Expected Completion Date:
From: 10/01/2014 To: 09/30/2015	10/01/2014	09/30/2015

14. Statement of Work (includes attachments)
 Funding is authorized by the Fuel Cell Technologies Office to perform work in the areas of :
 * Production; Delivery: Production of hydrogen from domestic resources with a focus on renewables and low carbon pathways, as well as delivery of hydrogen to meet costs of \$2 to \$4 per gallon gasoline equivalent
 * Hydrogen Storage: Storage of hydrogen on vehicles with secondary emphasis on early market applications.
 * Fuel Cells: Conversion of chemical energy of hydrogen and other fuels to electricity with a focus on transportation applications and secondary emphasis on stationary and portable power applications.

- * **Technology Validation:** Technical validation of systems in real-world environments.
- * **Safety, Codes & Standards:** Safety-related research and facilitation of the development of model codes and standards for widespread domestic and international commercialization of hydrogen and fuel cell technologies.
- * **Systems Analysis:** Understanding the complex interactions among components, system costs, energy efficiency, environmental impacts, societal impacts, and system trade-offs.
- * **Manufacturing:** Research and development of manufacturing technologies and processes to lower the cost of hydrogen and fuel cell systems and components.
- * **Market Transformation:** Accelerates the commercialization and early adoption of hydrogen and fuel cell technologies.

Reporting Requirements

The laboratory receiving the funds 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.

15. Technical Point of Contact

Name	Title	Email	Phone
Ted Motyka/SRNL/Srs	SRS Technical Point of Contact	ted.motyka@sml.doe.gov	(803) 507-8548
SRS Technical Point of Contact Manager			
Name	Title	Email	Phone
Steve Wach/SRNL/Srs	SRS Technical Point of Contact Manager	steve.wach@sml.doe.gov	(803) 646-1150

16. DOE-SR Program Point of Contact	17. DOE-SR Field Budget Official	18. Contractor's Authorized Representative	19. DOE Contracting Officer (or delegated representative)
Patrick Jackson/DOE/Srs	Harold Nielsen/DOE/Srs	Lloyd Clevinger/SRNS/Srs	Sylvia Maroney/DOE/Srs

Technical POC

I accept the scope and funding requirements and have no issues meeting the requirements. Yes No

DOE-SR Prog POC

DOE-SR Work Authorization Program

DOE Order 412 Compliance Checksheet

Project Title	Work Authorization Number
Fuel Cell Technologies	HI-41003-15

At a minimum, each work authorization will contain the following information:

<input checked="" type="radio"/> Yes <input type="radio"/> No	Project title and reference to work proposal number, if applicable
<input checked="" type="radio"/> Yes <input type="radio"/> No	Headquarters programmatic point of contact, organization, and telephone number
<input checked="" type="radio"/> Yes <input type="radio"/> No	Headquarters budget point of contact, organization code, and telephone number
<input checked="" type="radio"/> Yes <input type="radio"/> No	Responsible program
<input checked="" type="radio"/> Yes <input type="radio"/> No	Responsible program Secretarial Officer
<input checked="" type="radio"/> Yes <input type="radio"/> No	Responsible field organization
<input checked="" type="radio"/> Yes <input type="radio"/> No	Responsible contracting officer if different from above
<input checked="" type="radio"/> Yes <input type="radio"/> No	Site/facility management contractor name, point of contact, and telephone number
<input checked="" type="radio"/> Yes <input type="radio"/> No	Work authorization number, with revision number if applicable
<input checked="" type="radio"/> Yes <input type="radio"/> No	Budget and reporting code and funding level
<input checked="" type="radio"/> Yes <input type="radio"/> No	Dates for performance period, work start, and work completion
	Statement of work (see paragraph below)
<input checked="" type="radio"/> Yes <input type="radio"/> No	Headquarters, field organization, contractor, and if involving changes to scope, schedule, or funding, contracting officer signature blocks
<input checked="" type="radio"/> Yes <input type="radio"/> No	Reporting requirements, including (a) project management or status reports and (b) reports or publications for the purpose of informing DOE, the scientific community, and the public of the project results (e.g., scientific advances or technical progress)

The statement of work will include the following information as appropriate:

<input checked="" type="radio"/> Yes <input type="radio"/> No	Detailed statement of work to be performed or reference to a work proposal, project plan, or similar document describing the scope of work in detail
<input checked="" type="radio"/> Yes <input type="radio"/> No	Required milestone dates
<input checked="" type="radio"/> Yes <input type="radio"/> No	Deliverables, including technical information as required by DOE O 241.1A, Scientific and Technical Information Management
<input checked="" type="radio"/> Yes <input type="radio"/> No	Associated performance-based indicators/targets consistent with DOE G 120.1-5, Guidelines for Performance Measurement, and any additional guidance that will assist the contractor in the performance of the work.

Reviewer's Comments

This authorization is: Accepted. If rejected, then comments are provided in this space.

DOE-SR Program Point of Contact	Date
Patrick Jackson/DOE/Srs	09/30/2015 08:37 AM

DOE-SR Field Budget Official

BEARS database search complete and results attached to WAD package? Y N

Funding constrained: (Year constrained; CR; etc.) On FinPlan #24

2-year money 1-year money No year money Free money

Is this funding in the Fin Plan? Y N

Necessary expense:

1. Does the expenditure bear a logical relationship to the appropriation sought to be charged? In other words, does it must make a direct contribution to carrying out either a specific appropriation or an authorized agency function for which more general appropriations are available?	<input checked="" type="radio"/> Y <input type="radio"/> N
2. Is the expenditure prohibited by law?	<input type="radio"/> Y <input checked="" type="radio"/> N
3. Is the expenditure otherwise provided for, that is, is it an item that falls within the scope of some other appropriation or statutory funding scheme?	<input type="radio"/> Y <input checked="" type="radio"/> N

Contract Mod Admin

Contract Mod #	Attach Signed Mod
0582	

Attachments



PKG HI-410003-15 R6.pdf

Notify on Approval

John Olschon/SRNL/Srs, Matthew Biasiny/SRNS/Srs

[General Comment](#)

Submitted	Submitted By	Comment
10/13/2015 12:47:23 PM	Christine Corbin	Although the Contract Work Authorization was processed 10/07/2015. The funds were allocated under FINPLAN #24, issued September 30, 2015; the modifications allocating were issued September 30, 2015 (mods 0575, 0576, and 0577 approved/signed 09/30/2015). The Memorandum to Terry Michalske, FED 15-8123 SEP, in the description of work, stated that the Incremental FY 2015 Funding was provided to ensure continuation of efforts through Q1 FY 2016. No exception was taken by the CO for the WA effective date to be based on date of funding, and the date of allocation (No change made to WA No. HI-410003-15, Rev 6)
09/30/2015 08:47:26 AM	Belinda Tilley	Ardica CRADA CR--12-001 Agreement # 22272 \$200,000

Work Authorization: In Process					
Approvers	Title	Assigned	Received	Status Changed	Status
Lloyd Clevinger	SRNS Contractor Auth Rep	10/07/2015 10:13:08 AM	10/07/2015 02:38:06 PM	10/07/2015 02:38:18 PM	Concur
Sylvia Maroney	DOE-SR Contract Officer	10/07/2015 02:38:19 PM	10/13/2015 12:13:54 PM	10/13/2015 03:02:25 PM	Concur
Christine Corbin	DOE-SR Contract Mod Admin	10/13/2015 03:02:26 PM	10/13/2015 03:57:15 PM	10/13/2015 04:01:33 PM	Concur
Sharon Perella	SRNS Contracts	10/13/2015 04:01:34 PM	-	-	-

Previous Process - Work Authorization: Approved on 09/30/2015					
Approvers	Title	Assigned	Received	Status Changed	Status
Ted Motyka	Technical POC	09/30/2015 08:49:03 AM	09/30/2015 10:27:45 AM	09/30/2015 10:28:24 AM	Concur
Lillie Duncan	DOE-SR Work Auth	09/30/2015 10:28:26 AM	09/30/2015 10:57:25 AM	09/30/2015 10:58:01 AM	Concur
Patrick Jackson	Coordinator	09/30/2015 10:58:02 AM	09/30/2015 01:45:36 PM	09/30/2015 01:46:56 PM	Concur
Harold Nielsen	DOE-SR Program POC	09/30/2015 01:46:58 PM	09/30/2015 07:10:45 PM	09/30/2015 07:20:22 PM	Concur
	DOE-SR Field Budge Off				

Reviewers

Name	Date Time	Action
Sharon Hunter	9/30/2015 9:22:32 AM	Reviewed
Sharon Perella	10/7/2015 10:12:53 AM	Reviewed

U.S. DEPARTMENT OF ENERGY CONTRACT WORK AUTHORIZATION			
1a. Program Title: Fuel Cell Technologies Office		1b. Work Proposal Number (if applicable): FY15 AOP	
2. Headquarters Program Point of Contact: Name: Sunita Satyapal Organization Code: EE-3F Telephone No: (202) 586-2336			
3. Headquarters Budget Point of Contact: Name: Marlon Harris Organization Code: EE-3B Telephone No: (202) 586-2084			
4. Responsible Program: Office of Energy Efficiency and Renewable Energy		5. Responsible Secretarial Officer: David Danielson	
6. Responsible Field Element: Savannah River Site Office			
7a. Site and Facility Management Contractor: Savannah River Nuclear Solutions, LLC		7b. Contractor Point of Contact: Name: Ted Motyka Telephone No: (803) 725-3665	
8. Work Authorization Number:* HI-410003-15 6			
10. Funds Authorized:			
<u>Congressional Control Point</u>	<u>Previous</u>	<u>Change</u>	<u>Current</u>
HT0000000	\$1,795,000.00	\$285,000.00	\$2,080,000.00
11. Performance period covered by funds: From:10/01/2014 To:09/30/2015		12. Work Start Date: 10/01/2014	13. Expected Completion Date: 09/30/2015
14. Statement of Work: Funding in the amount of \$285,000.00 is authorized by the Fuel Cell Technologies Office to perform work in the areas of : <ul style="list-style-type: none"> * Production; Delivery: Production of hydrogen from domestic resources with a focus on renewables and low carbon pathways, as well as delivery of hydrogen to meet costs of \$2 to \$4 per gallon gasoline equivalent * Hydrogen Storage: Storage of hydrogen on vehicles with secondary emphasis on early market applications. * Fuel Cells: Conversion of chemical energy of hydrogen and other fuels to electricity with a focus on transportation applications and secondary emphasis on stationary and portable power applications. * Technology Validation: Technical validation of systems in real-world environments. * Safety, Codes & Standards: Safety-related research and facilitation of the development of model codes and standards for widespread domestic and international commercialization of hydrogen and fuel cell technologies. * Systems Analysis: Understanding the complex interactions among components, system costs, energy efficiency, environmental impacts, societal impacts, and system trade-offs. * Manufacturing: Research and development of manufacturing technologies and processes to lower the cost of hydrogen and fuel cell systems and components. * Market Transformation: Accelerates the commercialization and early adoption of hydrogen and fuel cell technologies. 			
15. Reporting Requirements (Status reports, scientific and technical information or similar):			
16. Work Authorization Program Official:			
Name (typed): Sunita Satyapal, Director		Signature: 987dd5b8-ff57-44ef-8614-48bf300f0044	Date: 9/1/2015

17. DOE Field Organization Official:		
Name (typed):	Signature:	Date:
18. Contractor's Authorized Representative:		
Name (typed):	Signature:	Date:
19. DOE Contracting Officer (or delegated representative):		
Name (typed):	Signature:	Date:
* The work authorization number will consist of the program code, AFP code, and the fiscal year		

FED 15-8123 - Sep

Program Manager: Setyapal, Sunita
 Site Officer:
 Laboratory/Contractor:
 Contracting Officer:

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

SUBJECT: FY 2015 Fuel Cell Technologies Office Funding for Savannah River National Laboratory (SRNL)

In accordance with the approved Energy Efficiency and Renewable Energy Fuel Cell Technologies Office FY 2015 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 (\$)
HT0201000-05450-1009191	\$85,000.00
HT0202000-05450-1009192	\$200,000.00

Funding Action # 60203 (Regular, Operating), HQ POC: Randolph, Katie, Field POC: Motyka, Ted

Agreement/solicitation ID & Title	B&R Code	Funding Amount
Agreement #26126 - STCH SRNL: HyS Cycle Electrolyzer R&D	HT0201000-05450-1009191	\$85,000.00

Description of Work: Incremental FY2015 funding is provided to ensure continuation of efforts through Q1 FY16 on the HyS cycle RD&D based on the SRNL application submitted and selected from DE-FOA-0000826 in FY2014. The project will continue to focus on advanced membranes and catalysts for the electrolysis step and on system design, analysis and modeling. Using the newly constructed pressurized button cell test facility, MEA performance that achieves greater than 50 mV lower cell voltage than the baseline Nafion MEA (which will be established during the first quarter) will be demonstrated for at least one high-temperature SDE membrane. Achievement of this milestone is the first part of a longer range development program aimed at >100 mV cell voltage reduction, which will establish the potential of the Solar HyS process to meet the MYRDD performance goals for solar thermochemical hydrogen production.

Funding Action # 60306 (Regular, Operating), HQ POC: Stetson, Ned, Field POC: Motyka, Ted

Agreement/solicitation ID & Title	B&R Code	Funding Amount
Agreement #22272 - SRNL - Alane - Support for CRADA with Ardica	HT0202000-05450-1009192	\$200,000.00

Description of Work: Agreement: 22272; Hydrogen storage R&D - Support for CRADA with Ardica
Direct synthesis of alane from hydrogen and aluminum is unfeasible due to the high pressure of hydrogen required by thermodynamics. Conventional chemical methods for alane synthesis involves use of highly-volatile, highly-flammable solvents and use of high-cost reactants. This project concerns the development of a lower-cost, high-efficiency electrochemical route for alane synthesis. Ardica, a small business, has implemented a CRADA with SRNL for the development and transition of the technology from SRNL to commercial production. In FY15 and FY16 SRNL will continue developing improved processes for the electrochemical production of alane for implementation into commercial production, including investigating alternative solvents to improve reaction kinetics and improved recrystallization procedures.

**Sunita Satyapal, Director
Fuel Cell Technologies Office
Energy Efficiency and Renewable Energy**

**CC: Leza Roberson (SRS)
Lonnie Gordon (SRNL)
Patricia Petty (SRS)
Patrick R. Jackson (SRS)**

Attachment 1-B

SRNS FINPLAN No. 24 (Applicable Page Only)

Financial Plan Report - Detail

SR22470 - Savannah River Nuclear Solutions (SRNS)

Rpt Entity	Fund Code	Leg FT	Program	Legacy B&R	Obj. Class	Local Use	Project	WFO	Legacy Order Number	Beginning Uncosted Obs	BA			Total Available
											Previous	Change	Revised	
410003	02300	VE	2924306	ST6001031	25400	0000000	0000000	0000000		367,426.19	400,000.00	160,000.00	560,000.00	927,426.19
410003	02300	VE	2924281	ST6001034	25400	0000000	0000000	0000000		184,799.96	0.00	-160,000.00	-160,000.00	24,799.96
Total for Program Parent/Control Point: ST0000000										552,226.15	400,000.00	0.00	400,000.00	952,226.15
Total for Fund: 02300										552,226.15	400,000.00	0.00	400,000.00	952,226.15
410003	05450	ZA	1009191	HT0201000	25400	0000000	0000000	0000000		214,818.46	565,000.00	85,000.00	650,000.00	864,818.46
<i>AY 2015 - FY2015 Electrolyzer R & D agreement #26126 HT201000 for \$85k sch 9/29/15</i>														
410003	05450	ZA	1009192	HT0202000	25400	0000000	0000000	0000000		1,155,985.28	830,000.00	200,000.00	1,030,000.00	2,185,985.28
<i>AY 2015 - FY2015 CRADA with Ardica Agreement #22272 for 200k sch 9/29/15</i>														
Total for Program Parent/Control Point: HT0100000										1,370,803.74	1,395,000.00	285,000.00	1,680,000.00	3,050,803.74
Total for Fund: 05450										1,370,803.74	1,395,000.00	285,000.00	1,680,000.00	3,050,803.74
Total for Recipient Code: SR										78,305,397.44	349,782,969.53	7,124,476.76	356,907,446.29	435,212,843.73
Total for Reporting Entity: 410003										78,305,397.44	349,782,969.53	7,124,476.76	356,907,446.29	435,212,843.73
Total for SR22470 - Savannah River Nuclear Solutions (SRNS)										78,305,397.44	349,782,969.53	7,124,476.76	356,907,446.29	435,212,843.73