

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   1
2. AMENDMENT/MODIFICATION NO. 255	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 12EM002202	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.	
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 in 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) Clause I. 53 - DEAR 970.5232-4 Obligation of Funds (DEC 2000)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 1 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 extend the period of performance for the American Recovery and Reinvestment Act (ARRA) Projects A and D for continuation of existing work scopes.

b. The period of performance for Project A (P&R Areas) is hereby changed:  
FROM: 4/8/2009 to 9/30/2012 TO: 4/8/2009 to 6/30/2013

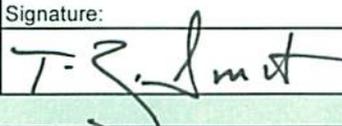
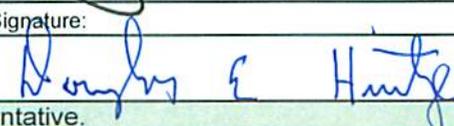
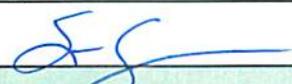
c. The period of performance for Project D (TRU and Solid Waste) is hereby changed:  
FROM: 4/8/2009 to 12/30/2012 TO: 4/8/2009 to 7/31/2013

d. 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) L.C. Clevinger II Manager, Contracts	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Scott D. Langston
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 5/17/12
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 5/18/12

U. S. DEPARTMENT OF ENERGY  
CONTRACT WORK AUTHORIZATION

1a. Project Title:		1b. Work Proposal Number (if applicable):	
Project A (P&R Areas)		DE-AC-09-08SR22470	
2. Headquarters Program Point of Contact.			
Name:	Thomas Johnson, Jr.	Organization Code:	EM-3.1 Telephone No. 202-586-2083
3. Headquarters Budget Point of Contact.			
Name:	Christine Shafik	Organization Code:	CF-1.2 Telephone No. 202-586-4171
4. Responsible Program:		5. Responsible Secretarial Officer:	
Office of Environmental Management		Dave Huizenga, EM-1	
6. Responsible Field Organization:			
U.S. Department of Energy, Savannah River Operations			
7a. Site and Facility Management Contractor:		7b. Contractor Point of Contact.	
Savannah River Nuclear Solutions		Name: Greg Ryan	Telephone No. 803-725-9346
8. Work Authorization Number:		9. Treasury Accounting Symbol:	
ARRA-SRS-3-09-01 Rev. 12		TAS::89-09/10-0253::TAS Recovery Project A	
10. Funds Authorized (\$ in millions). Shall not exceed ceilings w/o prior written approval of the Contracting Officer.			
Budget and Reporting Code:	Rough Order of Magnitude	Obligation	Cost Ceiling
FD.05.11.00.0	\$ 416,711,472.35	\$ 416,711,472.35	\$ 416,711,472.35
From:	To:		
4/8/2009	6/30/2013	4/8/2009	6/30/2013
14. Statement of Work:			
SEE PAGES 2 - 6 for STATEMENT OF WORK			
15. Reporting Requirements (Status reports, scientific and technical information or similar):			
Shall be in accordance with this Modification			
16. Work Authorization Program Official - Contracting Officer's Representative			
Name (typed):	Signature:	Date:	
Thomas Zack Smith		5/09/12	
17. DOE Budget Official.			
Name (typed):	Signature:	Date:	
Douglas E. Hintze		5/9/12	
18. Contractor's Authorized Representative.			
Name (typed):	Signature:	Date:	
John W. Temple	 FOR JWT	5/17/12	
19. DOE Contracting Officer (or delegated representative).			
Name (typed):	Signature:	Date:	
Scott D. Langston		5/15/12	

**Project Operating Plan for Savannah River Site  
D&D P & R Areas Recovery Act Project Recovery Act Project**

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

<b>Project A (P&amp;R Areas) (2002150)*</b>	<b>ARRA-SRS-3-09-00001</b>		
		<b>Rough Order of Magnitude</b>	<b>Est. Comp Date</b>
<b>D&amp;D P &amp; R Areas</b>		\$416,711,472.35	6/30/2013

**Statement of Work**

This Recovery Act Project includes capital asset projects, general plant projects, environmental management operational activities, and landlord (LPSO) program activities under the programmatic responsibility of EM. This Recovery Act Project focuses on accelerating the completion of EM mission activities in key industrial areas of the SRS (area completion) such that these areas and their surrounding land property and resources are made available for potential beneficial reuse.

The following is a list of the scope divided among the IPABS reporting elements.

- 1. SR-0030.R1.1, P-Area & R-Area Completion General Plant Projects (GPP) & Operations;**
- 2. SR-0030.R1.2, P-Reactor Decommissioning Project;**
- 3. SR-0030.R1.3, P-Area Ash Basin Remedial Action Project;**
- 4. SR-0030.R1.4, R-Reactor Decommissioning Project; and**
- 5. SR-0030.R1.5, R-Area Ash Basin Remedial Action Project**

**SR-0030.R1.1, P-Area & R-Area Completion GPP & Operations**

- Remediation of P-Area Cask Car railroad tracks and impacted soils
- Remediation of P-Area PSA-3A vadose zone (unsaturated subsurface soils)
- Remediation of P-Area PSA-3B vadose zone
- Remediation of P-Area Process Sewer Lines and impacted soils
- Remediation of P-Area P007 outfall soils
- Characterization of P-Area Operable Unit (PAOU) groundwater
- Post-remediation site restoration of PAOU
- Deactivation of P Reactor
- Post-remediation operations and maintenance of PAOU

**Project Operating Plan for Savannah River Site  
D&D P & R Areas Recovery Act Project Recovery Act Project**

- Environmental monitoring of PAOU
- Project, regulatory and administrative closeout of Recovery Act-funded work at PAOU to be completed by 6/30/2014
- Transition/Closeout of PAOU
- Remediation of R-Area Cask Car railroad tracks and impacted soils
- Remediation of soils in an area north of the 105-R reactor building
- Remediation of R-Area Process Sewer Lines and impacted soils
- Remediation of RAOU Groundwater
- Post-remediation site restoration of R-Area Operable Unit (RAOU)
- Deactivation of R Reactor
- Post-remediation operations and maintenance of RAOU
- Environmental monitoring of RAOU
- Project, regulatory and administrative closeout of Recovery Act-funded work at RAOU to be completed by 6/30/2014
- Closeout/transition of RAOU
- Characterization of Lower Three Runs Stream
- CERCLA Regulatory Documentation
- Removal of surplus reactor moderator
- Preparation of C Area Regulatory Documents

**SR-0030.R1.2, P-Reactor Decommissioning Project**

- Decommission P-Reactor Building – The end state is in situ decommissioning, which involves: grouting the reactor building at -20 foot level and -40 foot level below grade; removing the stack +145 foot level to +55 foot level; grouting the reactor vessel; installing a concrete cover over the reactor vessel; grouting the disassembly basin; demolishing and removing the disassembly basin structure; installing a concrete cover over disassembly basin; modifying the roof drainage at levels listed in the design element; and sealing the reactor building. This project includes operation and support of the Grout Plant located at the PAOU. The closed facility will undergo long-term post closure care, maintenance, and monitoring. This project is a CERCLA response action. KPP-1 Achieve Human Health and Environmental Protectiveness; Implementing regulatory remedy will result in CERCLA risk range of  $1 \times 10^{-4}$  –  $1 \times 10^{-6}$  for the industrial worker scenario. KPP-2, Achieve mechanical completion; construction activities are complete. Post-construction walk-down inspection is complete, including punch-list closeout. Regulatory acceptance is documented.

**Project Operating Plan for Savannah River Site  
D&D P & R Areas Recovery Act Project Recovery Act Project**

**SR-0030.R1.3, P-Area Ash Basin Remedial Action Project**

- Remediate P-Area Ash Basin – The end state is *in situ* closure, which involves leaving residual ash material in place, filling the basin with clean backfill material, and placing a cover over the basin footprint. This project is a CERCLA response action. KPP-1, Achieve human health and environmental protectiveness: implementing regulatory remedy will result in CERCLA risk range of  $1 \times 10^{-4}$  to  $1 \times 10^{-6}$  for the industrial worker scenario. KPP-2, achieve mechanical completion: construction activities are complete. Post construction walk-down inspection is complete, including punch-list closeout. Regulatory acceptance is documented.
- Long-term, post-closure care, maintenance and monitoring

**SR-0030.R1.3, R-Reactor Decommissioning Project**

- Decommission R-Reactor Building – The end state is *in situ* decommissioning, which involves: grouting the reactor building at -20 foot level and -40 foot level below grade; removing the stack +145 foot level to +55 foot level; grouting the reactor vessel; installing a concrete cover over the reactor vessel; grouting the disassembly basin; demolishing and removing the disassembly basin structure; installing a concrete cover over disassembly basin; modifying the roof drainage at levels listed in the design element; and sealing the reactor building. The closed facility will undergo long-term post closure care, maintenance, and monitoring. This project is a CERCLA response action. KPP-1 Achieve Human Health and Environmental Protectiveness; Implementing regulatory remedy will result in CERCLA risk range of  $1 \times 10^{-4}$  –  $1 \times 10^{-6}$  for the industrial worker scenario. KPP-2, Achieve mechanical completion; construction activities are complete. Post-construction walk-down inspection is complete, including punch-list closeout. Regulatory acceptance is documented.
- Operation and support of the Grout Plant located at the PAOU
- Long-term post closure care, maintenance, and monitoring

**SR-0030.R1.4 R-Area Ash Basin Remedial Action Project**

- Remediate R-Area Ash Basin – The end state is *in situ* closure, which involves leaving residual ash material in place, filling the basin with clean backfill material, and placing a cover over the basin footprint. This project is a CERCLA response action. KPP-1, Achieve human health and environmental protectiveness: implementing regulatory remedy will result in CERCLA risk range of  $1 \times 10^{-4}$  to  $1 \times 10^{-6}$  for the industrial worker scenario. KPP-2, achieve mechanical completion: construction activities are complete. Post construction walk-down inspection is complete, including punch-list closeout. Regulatory acceptance is documented.
- Long-term, post-closure care, maintenance and monitoring

**Project Operating Plan for Savannah River Site  
D&D P & R Areas Recovery Act Project Recovery Act Project**

**Changes during Final Scope Definitization**

Additions

- Characterization and remediation of the C-Reactor Area Discharge Canal
- Characterization and remediation of C Reactor Groundwater
- Characterization and remediation of C Area Operable Unit Waste Units
  - 108-3C, Fueling and Unloading Power Facilities
  - 717-C, Contaminated Maintenance Facility
  - 904-89G, Retention Basin for the 100-C Containment Basin
  - C-Area Process Sewer Lines
  - C-Area Reactor Cask Car Railroad Tracks, as abandoned
  - ECODS C-1
  - Potential release from the C-Reactor Disassembly Basin
  - Potential release from the C-Area Reactor Cooling Water System (186/190-C)
  - C-Area surveillance and maintenance activities supporting the C-Area Disassembly Basin Remediation
- Demolition and removal of the PAR (P Area and R Area) Pond facilities
- Disposition 49 each surplus reactor heat exchangers in N Area
- Disposition of surplus reactor moderator (heavy water) in 1,900 each 55-gallon drums and 58,000 gallons in three tanks at the former K Area Reactor Complex
- Disposal of surplus reactor moderator in 4,868 each 55-gallon drums and 49,370 gallons in two tanks at the former L Area Reactor Complex
- Disposal of 42,539 gallons surplus reactor moderator in two tanks at the former C Area Reactor Complex
- Removal of 5 million gallons of water in the C-Reactor Disassembly Basin
- Remediation of Lower Three Runs
- Characterization of the L-Area Ash Basin
- Characterization of the K-Area Ash Basin
- Remediation of the L-Area Ash Basin
- Remediation of the K-Area Ash Basin

**Project Operating Plan for Savannah River Site  
D&D P & R Areas Recovery Act Project Recovery Act Project**

- Deactivation and decommissioning and removal of the K Area Powerhouse and excess K Area facilities, including isolation and interface activities to prepare the facilities for D&D
- Redirect K-02 in the former K Area Reactor Complex outfall to preclude discharge to surface waters
- Remediation of P Area Groundwater

U. S. DEPARTMENT OF ENERGY  
CONTRACT WORK AUTHORIZATION

1a. Project Title:		1b. Work Proposal Number (if applicable):	
Project D (TRU and Solid Waste)		DE-AC-09-08SR22470	
2. Headquarters Program Point of Contact.			
Name:	Thomas Johnson, Jr.	Organization Code:	EM-3.1
		Telephone No.	202-586-2083
3. Headquarters Budget Point of Contact.			
Name:	Christine Shafik	Organization Code:	CF-1.2
		Telephone No.	202-586-4171
4. Responsible Program:		5. Responsible Secretarial Officer:	
Office of Environmental Management		Dave Huizenga, EM-1	
6. Responsible Field Organization:			
U.S. Department of Energy, Savannah River Operations			
7a. Site and Facility Management Contractor:		7b. Contractor Point of Contact.	
Savannah River Nuclear Solutions		Name:	Greg Ryan
		Telephone No.	803-725-9346
8. Work Authorization Number:		9. Treasury Accounting Symbol:	
ARRA-SRS-3-09-04 Rev. 12		TAS::89-09/10-0253::TAS Recovery Project D	
10. Funds Authorized (\$ in millions). Shall not exceed ceilings w/o prior written approval of the Contracting Officer.			
Budget and Reporting Code:	Rough Order of Magnitude	Obligation	Cost Ceiling
FD.05.30.00.0	\$ 720,201,615.20	\$ 720,201,615.20	\$ 720,201,615.20
From:	To:		
4/8/2009	9/30/2013 7/31/2013	4/8/2009	9/30/2013 7/31/2013
14. Statement of Work:			
SEE PAGES 2 - 6 for STATEMENT OF WORK			
15. Reporting Requirements (Status reports, scientific and technical information or similar):			
Shall be in accordance with this Modification			
16. Work Authorization Program Official - Contracting Officer's Representative			
Name (typed):	Signature:	Date:	
Thomas Zack Smith	<i>TZ Smith</i>	05/09/12	
17. DOE Budget Official.			
Name (typed):	Signature:	Date:	
Douglas E. Hintze	<i>Douglas E Hintze</i>	5/9/12	
18. Contractor's Authorized Representative.			
Name (typed):	Signature:	Date:	
John W. Temple	<i>John W Temple For JW</i>	5/17/12	
19. DOE Contracting Officer (or delegated representative).			
Name (typed):	Signature:	Date:	
Scott D. Langston	<i>SL</i>	5/15/12	

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

<b>Project D (TRU &amp; SW)</b>	<b>ARRA-SRS-3-09-04</b>	
	<b>Rough Order of Magnitude</b>	<b>Est. Comp Date</b>
	<b>\$720,201,615.20</b>	<b>7/31/2013</b>

**Statement of Work**

This Recovery Act Project includes general plant projects, environmental management operational activities, waste management operational activities, and landlord (LPSO) program activities under the programmatic responsibility of EM

In EM's Integrated Planning, Accountability, and Budgeting System, this Recovery Act Project is decomposed to the following reporting elements:

- SR-0011C.R1.1, Canyon Complex Support;
- SR-0013.R1.1, Solid Waste Disposition; and
- SR-0013.R1.2, Accelerated TRU Waste Disposition.

**SR-0011C.R1.1, Canyon Complex Support To TRU Waste Program**

- Modifications to canyon facilities to support accelerated transuranic waste drum and box remediation
- Partial deactivation or reactivation of F Canyon systems to facilitate TRU waste processing in the warm side of the canyon
- Support from F Canyon facilities and personnel vital to the accomplishment of the TRU Waste remediation effort including cognizant engineering support from design authorities knowledgeable in the canyon support systems and their operation

**SR-0013.R1.1, Solid Waste Disposition**

- Ongoing operations of the solid waste management program for SRS, including the storage, treatment, and/or disposal, on-site and off-site, of low-level radioactive waste (LLW), mixed low-level radioactive and hazardous waste (MLLW), sanitary waste, and hazardous waste
- Transfer and support the transfer of approximately 14,801 drums of depleted uranium oxide (DUO) to an off-site facility(s) for interim storage for about five years pending final disposition
- Transfer of approximately 805 drums of DUO (material) to DOE's Oak Ridge Reservation (Oak Ridge National Laboratory) (TN) for re-use

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	<b>\$720,201,615.20</b>	<b>7/31/2013</b>

- Transfer of one 20,000 square-foot storage facility in F Area to NNSA
- Dispose of the substantial quantities of hazardous, LLW, and MLLW generated by other SRS Recovery Act projects associated with deactivation, decommissioning, demolition and environmental restoration activities
- Closure of five LLW disposal trenches
- Management and curation of cold war artifacts that are preserved in accordance with National Historic Preservation Act including modifications to 315-M Curation Facility and development of the Cultural Resource Management Plan Feasibility Study

**SR-0013.R1.2, Accelerated TRU Waste Disposition**

The scope of the Accelerated TRU Waste Disposition project is the compliant disposition of 5,000 cubic meters of legacy transuranic waste off the SRS site. The majority of the TRU waste is currently stored in non-shippable, aged, deteriorating containers that must be repackaged and remediated before shipment to the Waste Isolation Pilot Plant (WIPP) located in Carlsbad, New Mexico. The 5,000 cubic meters of TRU waste includes in excess of 1,500 miscellaneous boxed containers and over 1,250 drum type containers stored under earthen cover containing over 350,000 curies of plutonium-238 or plutonium-239.

To accomplish this large scale work scope in the allotted time, the capabilities of three areas at SRS will be required; E Area (Solid Waste Management Facility), H Canyon and F Canyon. The E Area facilities currently store the TRU waste and will be used to house equipment and operations to characterize the TRU waste and ship the waste to WIPP. The shipment of the TRU waste to WIPP will be accomplished using approved shipping configurations including standard large boxes (SLBs), standard waste boxes (SWBs), ten drum overpacks (TDOPs) and 55 gallon drums. The waste will be transferred to WIPP in TRUPACT-II or TRUPACT-III shipping casks following final characterization and certification of the acceptability of the waste containers

Additionally, E Area will remediate and repackage low content non-compliant containers into shippable box or drum configurations. To accomplish these remediation activities, existing ventilated containment structures on Pad 6 and in Cell 11 will be modified, staffed and operated to perform the remediation. The

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activity requires substantial controls due to the high hazards associated with exposure to the principal contaminant of the waste, Pu-238. High airborne concentrations of Pu-238 are anticipated to be generated during hand-on remediation of the waste inside these ventilated enclosures. To address these hazards the facilities are being modified to incorporate controls such as supplemental local ventilation and secondary containment in addition to the three levels of PPE and supplied air workers will don.

The F-Canyon facilities will be utilized for the remediation and repackaging of higher content non-compliant drums and medium sized boxes of TRU waste. This waste will be initially characterized in E area and overpacked or properly wrapped to enable on-site transport of the more than 40 year old containers. F Canyon is presently partially deactivated. To accomplish the TRU scope, select areas of the canyon (Warm Crane and Truck Well Areas) will be reactivated and modified to safely handle the waste. These modifications will be substantial in the Truckwell where an inner airlock structure will be erected and significant ventilation controls provided. The safety basis documentation will be modified to permit the materials to be received into these areas of the canyon with the hands-on remediation conducted including aggressive size reduction activities. The remediation and size reduction will be conducted with hand tools due to fire hazard concerns. Within the Warm Crane area an existing ventilated enclosure is being modified to remediate approximately 1,250 very high content (some >1,500 Ci Plutonium-238) drums.

H Canyon will be employed to repack the waste within the very large boxes in the TRU waste inventory into other containers so as to produce feed for the F Canyon facility. Additionally, H Canyon will take a percentage of the high content waste boxes and conduct hands-on remediation within the warm shop area of the canyon. To perform these activities, modifications will be made to this area of the canyon to provide supplemental ventilation controls and improved egress to adhere to the life safety codes.

A portion of the existing TRU waste inventory includes highly (count rates of about 100 million disintegrations per minute for Pu-238) contaminated oversized items. The work force in both H Canyon and F Canyon will take implement size reduction only to the extent necessary to repack the wastes into an SLB. The amount of size reduction necessary is not expected to be significant but will include steel vessels, lathe bases, and glove boxes. This work scope requires more intensive hands-on work, with higher work exposure doses, and a higher

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probability of contamination spread. The experience accumulated to date serves as the basis for the processing rates in both F and H Canyons.

Additionally in order to promote the efficient disposal of the TRU waste at WIPP, the processing rates have been accelerated at certain facilities through the application of additional shifts. These facilities include the drum line in F Canyon and characterization operations in E Area.

In addition to the 5,000 cubic meters of TRU legacy waste planned for disposition, another 200 cubic meters of TRU waste remains in inventory at SRS. This waste exhibits characteristics that present significant challenges to the repackaging and remediation of the waste into compliant shipping containers. The project scope includes the delineation of an implementable plan for the repackaging of this remaining inventory. This waste volume is considered very difficult by virtue of the plutonium content and highly elevated radiation fields. Planning activities, completion of a Technical Implementation Plan, safe guard & security requirements, and pre-disposal activities to address some or the entire remaining inventory will be accomplished as part of this SRRAP.

### **Changes during Final Scope Definitization**

Scope deletions include:

- Elimination of the planned expansion of the E Area low level waste burial ground as waste generation projections no longer warrant it.

Scope additions include:

- Solid Waste Disposition
  - Management and disposition of additional volumes of mixed, low level, and sanitary wastes generated through the incremental footprint reduction activities
- Transuranic Waste
  - E Area
    - Extend Operations and add shifts to select activities such as vent and purge, PHAS, and the preparation activities

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

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(radiological surveying, non-destructive assay, and radiography) to support onsite movements and shipments of the waste

- Increase the loading and shipping activities for the additional volume of legacy waste
  - Characterize, size reduce and remediate the inventory of Master Slave Manipulators into SWBs or SLBs
  - Procure the necessary additional containers to support the packaging and shipping of the additional 2,880 cubic meters of waste
  - Reactivate and modify as required the existing enclosure on Pad 6 to repack and remediate non-compliant low content (<10 curies) SWBs , B25s and 85 gallon overpack drums
  - Reactivate, modify as required, and operate the existing enclosure in Cell 11 to repack, as necessary, and remediate existing SLB2 containers with relatively low contents (<10 curies) of
  - Install and operate an unloading area to support the retrieval of high content drums and boxes from the Pad 1 culverts previously planned for H Canyon
  - Support WIPP in the fabrication of TRUPACT III shipping casks to facilitate the disposition of compliantly packaged SLB2 containers
  - Support the necessary hardware and software upgrades to bring the Large Box Non-destructive Examination system into a configuration that supports WIPP certification
  - Support WIPP in the deployment and use of a TRUPACT III loading system at SRS
- F Canyon
- Accelerate the processing of legacy non-compliant drums to facilitate early shipments of waste to WIPP through the addition of work shifts
  - Revise the design, install and extend the operations of the planned F Canyon Box Remediation Enclosure to address

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the additional volume (2,880 cubic meters) and the significant hazards associated with opening the high concentration Pu-238 bearing boxes of TRU waste

- Reactivate the warm crane to support the construction of the box remediation enclosure in the Truckwell of the canyon
- Perform F-Canyon Surveillance and Maintenance (S&M) activities supporting TRU remediation operations

- H Canyon

- Make the necessary modifications to the facility and supporting DSA to utilize the existing warm shop of the canyon to perform hands-on remediation and repackaging of high Pu-238 content boxed waste into SWBs
- Extend the operations of the H canyon TRU support operations to accommodate the additional volume of TRU waste
- Install vent and purge capability to remove the potential hydrogen build-up in high content Pad 1 containers
- Upgrade certain canyon safety class components to meet contemporary seismic qualification standards that permit high content plutonium contaminated waste to be repackaged in the warm area of the canyon
- The 200m<sup>3</sup> of TRU waste scope is the number one priority on DOE-HQ and SR Recovery Act Work Scope for this B&R. This element of work is a stretch objective
- Disposition of Unforecasted Wastes

- Project, regulatory and administrative closeout of Recovery Act-funded work to be completed by 7/31/2014