AMENDMENT OF SOLICITATION/MO	1. CONTRACT ID CODE	PAGE	PAGE OF PAGES		
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	A REC	QUISITION/PURCHASE REQ. NO.		8 NO. (If applicable)
113			1002912	S. FROJECT	NO. (II applicable)
	See Block 16C		MINISTERED BY (If other than Item 6)	CODE DO	603
Office of River Protection U.S. Department of Energy Office of River Protection P.O. Box 450 Richland WA 99352	on y	U.S Off P.C MS:	ice of River Protect: . Department of Energice of River Protect: . Box 450 H6-60	ion gy	
B. NAME AND ADDRESS OF CONTRACTOR (N			hland WA 99352		
VAME AND ADDRESS OF CONTRACTORIN VASHINGTON RIVER PROTECTI Attn: DUANE SCHMOKER 20 BOX 73 20 PARK BLVD 30ISE ID 837290001		X) 9E X D	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORE E – AC27 – 08RV14800 B. DATED (SEE ITEM 13)		
CODE 806500521	FACILITY CODE				
0000000021			)5/29/2008 MENTS OF SOLICITATIONS		
Items 8 and 15, and returning separate letter or telegram which includes a re THE PLACE DESIGNATED FOR THE RECEI virtue of this amendment you desire to change to the solicitation and this amendment, and is	ference to the solicitation and amendm PT OF OFFERS PRIOR TO THE HOUF an offer already submitted, such chang	ent numbers. Fi R AND DATE SP ge may be made	PECIFIED MAY RESULT IN REJECTION	NT TO BE RECEIVE OF YOUR OFFER.	D AT If by
12. ACCOUNTING AND APPROPRIATION DAT		•	crease:	-\$1,155,	708.00
See Schedule			ODIFIES THE CONTRACT/ORDER NO.		······································
C. THIS SUPPLEMENTAL AGR	EEMENTISENTEREDINTOPURSUA s-Cost Reimbursement (AU	ANT TO AUTHO	DMINISTRATIVE CHANGES (such as ch Y OF FAR 43.103(b). RITY OF: FAR 52.232-22, Limitation		·····
E. IMPORTANT: Contractor	s not. IX is required to sign this doc	ument and retur	n2 copies to the	issuing office.	
14. DESCRIPTION OF AMENDMENT/MODIFIC See Continuation Pages. FOB: Destination Period of Performance: O			solicitation/contract subject matter when	e feasible.)	
Except as provided herein, all terms and conditi 15A. NAME AND TITLE OF SIGNER (Type or p			eretofore changed, remains unchanged a		
Abel B. Domning	1 Contract Man		isan E. Bechtol		
15B. CO	15C. DATE S	IGNED 16E	. UNITED STATES OF AMERICA		16C. DATE SIGNED
	6/201		ORIGINAL SIGNED B	NY	6/20/11
ASN 7540-01-152-8070 Previous edition unusable		·		STANDARD F	ORM 30 (REV. 10-83)

Previous edition unusable

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STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

#### Purpose of Modification:

The following changes are hereby incorporated into the contract:

1. De-obligate incremental funding in the amount of \$-1,155,708.00. The funding shall be de-obligated as follows:

Accounting Code	Fund	Appr Year	Allottee	Reporting Entity	Object Class	Program	Project	WFO	Funded Amount
De-obligating WRPS TDD funds from WP-2: Alternative Waste Pretreatment									
	1250	2011	34	421301	25200	1111412	4263	0	-\$855,708.00
De-obligating WRPS TDD funds from WP-4: Improved Vitrification Capacity	1250	2011	34	421301	25200	1111412	4265	0	-\$300,000.00
Total									-\$1,155,708.00

- 2. As a result of this de-obligation, the Total Obligated Amount for this award is changed from \$1,480,492,844.77 to \$1,479,337,136.77.
- 3. Update Section B, Clause B.3, Obligation and Availability of Funds, to update the total Obligation of Funds. Then change is as follows:

#### FROM:

(a) <u>Obligation of Funds</u>. Pursuant to the Section I Clause entitled, FAR 52.232-22 Limitation of Funds, total funds in the amount of <u>\$1,480,492,844.77</u> have been allotted for obligation and are available for payment of services provided from the effective date of the Notice to Proceed through September 30, 2013.

Of the total identified above, \$323.855,000.00 in Recovery Act funds have been allotted for obligation and are available for payment of services provided from the effective date of this modification through September 30, 2011. (Subject to Section I clause 52.216-24 Limitation of Government Liability) and \$1,156,637,844.77 in non-Recovery Act funds are available for payment of services through September 30, 2013.

## <u>TO:</u>

(a) <u>Obligation of Funds</u>. Pursuant to the Section I Clause entitled, FAR 52.232-22 Limitation of Funds, total funds in the amount of <u>\$1,479,337,136.77</u>have been allotted for obligation and are available for payment of services provided from the effective date of the Notice to Proceed through September 30, 2013.

Of the total identified above, \$323,\$55,000.00 in Recovery Act funds have been allotted for obligation and are available for payment of services provided from the effective date of this modification through September 30, 2011. (Subject to Section I clause 52.216-24 Limitation of Government Liability) and \$1.155,482,136.77 in non-Recovery Act funds are available for payment of services through September 30, 2013.

4. Update Section J, Attachment J.15, American Recovery and Reinvestment Act (ARRA) Scope and End-State Milestones to update completion date for Analytical Building Block RA-1 Tank Farm Infrastructure Upgrades, Other Tank/Farm Upgrades (multiple subprojects). The change is as follows:

## FROM:

RA-1 Tank Farm	Sub-CLIN	Other Tank/Farm Upgrades		
Infrastructure Upgrades	7.1	(multiple subprojects)		
		1. ENRAF <sup>®</sup> upgrades.	Aug – 11	Upgrades complete.
		2. Ventilation system	Sep – 09	Vent system
		reliability study.		reliability study
				complete.
		3. Obsolete tank farm	Sep – 11	Equipment
		equipment removal.		removed.
		4. Decon trailer procurement.	Sep – 10	System received.

## <u>TO:</u>

RA-1 Tank Farm	Sub-CLIN	Other Tank/Farm Upgrades		
Infrastructure Upgrades	7.1	(multiple subprojects)		
		1. ENRAF <sup>®</sup> upgrades.	Sep – 11	Upgrades complete.
		2. Ventilation system	Sep – 09	Vent system
		reliability study.		reliability study
				complete.
		3. Obsolete tank farm	Sep – 11	Equipment
		equipment removal.		removed.
		4. Decon trailer procurement.	Sep – 10	System received.

5. Update Section J, Attachment J.15, American Recovery and Reinvestment Act (ARRA) Scope and End-State Milestones to update the completion date for Analytical Building Block RA-1 Tank Farm Infrastructure Upgrades, SST Life Extension. The change is as follows:

#### FROM:

RA-1 Tank Farm	Sub-CLIN	SST Life Extension		
Infrastructure Upgrades	7.1			
		1. Replace radial filters.	Aug – 11	Radial filters
				replaced.
		2. Remove obsolete SST	Aug – 11	Equipment
		equipment.		removed.
		3. Complete SST electrical system upgrades.	Aug – 11	Upgrades complete.

# <u>TO:</u>

RA-1 Tank Farm	Sub-CLIN	SST Life Extension		
Infrastructure Upgrades	7.1			
		1. Replace radial filters.	Aug – 11	Radial filters
		_		replaced.
		2. Remove obsolete SST equipment.	Aug – 11	Equipment removed.
		<ol> <li>Complete SST electrical system upgrades.</li> </ol>	Sep – 11	Upgrades complete.

6. Update Section J, Attachment J.15, American Recovery and Reinvestment Act (ARRA) Scope and End-State Milestones to update completion date for Analytical Building Block RA-3 Facilities Upgrades. The change is as follows:

## FROM:

<b>RA-3 Facilities Upgrades</b>	Sub-CLIN	222-S Life Extensions		
	7.2	(multiple subprojects)		
		1. Roof replacement.	Nov – 10	222-S roof
				replaced.
		2. Conditioned storage	Oct – 10	Conditioned storage
		addition.		facility constructed.
		3. Replace HPT support	Sep – 10	Facility constructed.
		facilities.		

#### Contract Number DE-AC27-08RV14800 Continuation Page, Modification 113

•	Replace mobile office. Replace HVAC control	Aug – 11 Sep – 11	Office constructed. Control system
5.	system.	Sep - 11	installed.
6.	Renovate rooms.	Sep – 11	222-S rooms upgraded.
7.	Upgrade stairway access.	Sep – 09	Stairway access meets current building code.

<u>T0:</u>

<b>RA-3 Facilities Upgrades</b>	Sub-CLIN	222-S Life Extensions		
	7.2	(multiple subprojects)		
		1. Roof replacement.	Nov – 10	222-S roof
				replaced.
		2. Conditioned storage	Oct - 10	Conditioned storage
		addition.		facility constructed.
		3. Replace HPT support facilities.	Sep – 10	Facility constructed.
		4. Replace mobile office.	Sep – 11	Office constructed.
		5. Replace HVAC control	Sep – 11	Control system
		system.		installed.
		6. Renovate rooms.	Sep – 11	222-S rooms
				upgraded.
		7. Upgrade stairway access.	Sep – 09	Stairway access
				meets current
				building code.

7. Update Section J, Attachment J.15, American Recovery and Reinvestment Act (ARRA) Scope and End-State Milestones to update completion date for Analytical Building Block RA-4 Waste Feed Infrastructure Upgrades. The change is as follows:

### FROM:

RA-4 Waste Feed	Sub-CLIN	Exhauster D&D (AW/AN)	Aug – 11	Exhausters
Infrastructure Upgrades	7.1			removed.

#### TO:

RA-4 Waste Feed	Sub-CLIN	Exhauster D&D (AW/AN)	Sep – 11	Exhausters
Infrastructure Upgrades	7.1			removed.

8. Update Section J, Attachment J.15, American Recovery and Reinvestment Act (ARRA) Scope and End-State Milestones to update completion date for Analytical Building Block RA-5 Waste Feed Transfer Line Upgrades. The change is as follows:

#### FROM:

RA-5 Waste Feed	Sub-CLIN	Transfer Line Upgrades –	Aug – 11	Construction
Transfer Line Upgrades	7.3	SL-177/SN-277 and SL-180/		complete.
		SN-280		

#### <u>TO:</u>

RA-5 Waste Feed	Sub-CLIN	Transfer Line Upgrades –	Sep – 11	Construction
Transfer Line Upgrades	7.3	SL-177/SN-277 and SL-180/		complete.
		SN-280		

9. Update Section J, Table of Contents, to correct Revision Numbers for Attachments J.2, J.3, J.4, J.9, J.13, J.14, and J.15 and to update the Number of Pages in J.15. The change is as follows:

### FROM:

Attachment Number	Title of Attachment	Revision Number	Number of Pages
J.1	ABBREVIATIONS AND ACRONYM LIST	0	7
J.2	REQUIREMENTS SOURCES AND IMPLEMENTING DOCUMENTS	0	8
J.3	HANFORD SITE SERVICES AND INTERFACE REQUIREMENTS MATRIX	0	68
J.4	PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)	6	99
J.5	PERFORMANCE GUARANTEE AGREEMENT	0	5
J.6	SMALL BUSINESS SUBCONTRACTING PLAN	0	14
J.7	SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM TARGETS	0	3
J.8	ADVANCE UNDERSTANDING OF COSTS	0	5
J.9	SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT	N/A	5
J.10	WAGE DETERMINATIONS – SERVICE CONTRACT ACT (SCA) AND DAVIS-BACON ACT	1	48
J.11	SUPPLEMENTAL WORK DESCRIPTION TABLES	0	22
J.12	GOVERNMENT-FURNISHED SERVICES AND INFORMATION (GFS/I)	0	1
J.13	HANFORD SITE STRUCTURES LIST	0	66
J.14	HANFORD WASTE SITE ASSIGNMENT LIST	0	132
J.15	AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) MILESTONES AND PERFORMANCE MEASURES	0	12

<u>TO:</u>

Attachment Number	Title of Attachment		Number of Pages
J.1	ABBREVIATIONS AND ACRONYM LIST	0	7
J.2	REQUIREMENTS SOURCES AND IMPLEMENTING DOCUMENTS	11	8
J.3	HANFORD SITE SERVICES AND INTERFACE REQUIREMENTS MATRIX	3	68
J.4	PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)	9	99
J.5	PERFORMANCE GUARANTEE AGREEMENT	0	5
J.6	SMALL BUSINESS SUBCONTRACTING PLAN	0	14
J.7	SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM TARGETS	0	3
J.8	ADVANCE UNDERSTANDING OF COSTS	0	5
J.9	SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT	1	5
J.10	WAGE DETERMINATIONS – SERVICE CONTRACT ACT (SCA) AND DAVIS-BACON ACT	1	48
J.11	SUPPLEMENTAL WORK DESCRIPTION TABLES	0	22
J.12	GOVERNMENT-FURNISHED SERVICES AND INFORMATION (GFS/I)	0	1
J.13	HANFORD SITE STRUCTURES LIST	1	66
J.14	HANFORD WASTE SITE ASSIGNMENT LIST	1	132
J.15	AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) MILESTONES AND PERFORMANCE MEASURES	3	5

# 10. Attached to this modification are replacement pages for the following sections:

- Section B, Page B-3
- Section J, Table of Contents, Page 1
- Section J, Attachment J.15, Pages J.15-1, and J.15-3-5

#### 11. All other Terms and Conditions remain unchanged.

Contract Number DE-AC27-08RV14800 Continuation Page, Modification 113

# **Replacement Pages**

(Total: Seven (7) including this Cover Page)

- Section B, Page B-3
- Section J, Table of Contents, Page 1
- Section J, Attachment J.15, Pages J.15-1, and J.15-3-5

- b. Sub-CLIN 4.2: Extended Demonstration Bulk Vitrification System Operations;
- c. Sub-CLIN 4.3: Supplemental Treatment Design
- d. Sub-CLIN 4.4: Supplemental Treatment Construction and Operations
- e. Sub-CLIN 4.5: Transuranic Tank Waste Treatment and Packaging.
- (5) CLIN 5 Early Feed and Operation of the WTP Low Activity Waste (LAW) Facility:
  - a. Sub-CLIN 5.1: Tank Selection, Retrieval, Pretreatment and Feed Delivery Design;
  - b. Sub-CLIN 5.2: Retrieval, Pretreatment and Feed Delivery Construction and Operations;
  - c. Sub-CLIN 5.3: (moved to Sub-CLIN 3.4)
  - d. Sub-CLIN 5.4: LAW/BOF/LAB Operations.
- (6) CLIN 6 Pension and Welfare Plans:
  - a. Sub-CLIN 6.1: Hanford Employee Retirement and Benefit Plan Management; and
  - b. Sub-CLIN 6.2: Legacy Pension and Benefit Plan Management.
- (7) CLIN 7 American Recovery and Reinvestment Act (ARRA) Workscope:
  - a. Sub-CLIN 7.1: ARRA workscope under Sub-CLIN 1.2 Safe, Compliant Operations;
  - b. Sub-CLIN 7.2: ARRA workscope under Sub-CLIN 1.3 Analytical Laboratory Support;
  - c. Sub-CLIN 7.3: ARRA workscope under Sub-CLIN 3.1 Treatment Planning, Waste Feed Delivery, and WTP Transition; and
  - d. Sub-CLIN 7.4: ARRA workscope under Sub-CLIN 3.3 Immobilized High-Level Waste (IHLW) Storage and Shipping Facility Construction
  - e. Sub-CLIN 7.5: ARRA workscope under Sub-CLIN 3.4 Upgrade and Operate the Effluent Treatment Facility (ETF).
  - f. Sub-CLIN 7.6: ARRA workscope under Sub-CLIN 2.1 Single Shell Tank (SST) Retrieval and Closure

#### B.3 OBLIGATION AND AVAILABILITY OF FUNDS

(a) <u>Obligation of Funds</u>. Pursuant to the Section I Clause entitled, FAR 52.232-22 Limitation of Funds, total funds in the amount of <u>\$1,479,337,136.77</u> have been allotted for obligation and are available for payment of services provided from the effective date of the Notice to Proceed through September 30, 2013.

Of the total identified above, <u>\$323,855,000.00</u> in Recovery Act funds have been allotted for obligation and are available for payment of services provided from the effective date of this modification through September 30, 2011. (Subject to Section I clause 52.216-24 Limitation of Government Liability) and <u>\$1,155,482,136.77</u> in non-Recovery Act funds

#### PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

#### SECTION J -- LIST OF ATTACHMENTS

#### TABLE OF CONTENTS

Attachment Number	Title of Attachment	Revision Number	Number of Pages
J.1	ABBREVIATIONS AND ACRONYM LIST	0	7
J.2	REQUIREMENTS SOURCES AND IMPLEMENTING DOCUMENTS	11	8
J.3	HANFORD SITE SERVICES AND INTERFACE REQUIREMENTS MATRIX	3	68
J.4	PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)	9	99
J.5	PERFORMANCE GUARANTEE AGREEMENT	0	5
J.6	SMALL BUSINESS SUBCONTRACTING PLAN	0	14
J.7	SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM TARGETS	0	3
J.8	ADVANCE UNDERSTANDING OF COSTS	0	5
J.9	SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT	1	5
J.10	WAGE DETERMINATIONS – SERVICE CONTRACT ACT (SCA) AND DAVIS-BACON ACT	1	48
J.11	SUPPLEMENTAL WORK DESCRIPTION TABLES	0	22
J.12	GOVERNMENT-FURNISHED SERVICES AND INFORMATION (GFS/I)	0	1
J.13	HANFORD SITE STRUCTURES LIST	1	66
J.14	HANFORD WASTE SITE ASSIGNMENT LIST	1	132
J.15	AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) MILESTONES AND PERFORMANCE MEASURES	3	5

#### ATTACHMENT J.15 AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SCOPE AND END-STATE MILESTONES

Analytical Building Block	Contract Line Item Number	Scope	Date*	Completion End Point(s)
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	AP/SY Ventilation Design and Fabrication	Sep – 11	Fabrication complete.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	SY Electrical Upgrades	Sep – 11	Upgrades complete.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	Valve Funnel Replacement	Sep – 11	Installation complete.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	AP Valve Pit Jumpers	Sep – 11	Installation complete.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	AP Level Rise Construction Modifications	Oct – 10	Construction Modifications complete.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	AZ Farm Control System Upgrade	July – 11	Installation complete.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	Other Tank/Farm Upgrades (multiple subprojects)		
		1. ENRAF <sup>®</sup> upgrades.	Sep – 11	Upgrades complete.
		2. Ventilation system reliability study.	Sep – 09	Vent system reliability study complete.
		3. Obsolete tank farm equipment removal.	Sep – 11	Equipment removed.
		4. Decon trailer procurement.	Sep – 10	System received.
RA-1 Tank Farm Infrastructure Upgrades	Sub-CLIN 7.1	DST Upgrades/Life Extension (multiple subprojects)		
		1. Issue DSTIP lab report.	Dec - 10	Issue report.
		2. Fabricate and install AN-107 corrosion probe.	Oct – 10	Installation complete.
		3. Cathodic protection modifications/adjustments.	Sep – 11	Adjustments complete.
RA-1 Tank Farm	Sub-CLIN 7.1	SST Life Extension		
Infrastructure Upgrades		1. Replace radial filters.	Aug – 11	Radial filters replaced.
		2. Remove obsolete SST equipment.	Aug – 11	Equipment removed.
		<ol> <li>Complete SST electrical system upgrades.</li> </ol>	Sep – 11	Upgrades complete.

Analytical Building Block	Contract Line Item Number	Scope	Date*	Completion End Point(s)
		<ol> <li>Process condensate leak detection upgrades.</li> </ol>	Sep - 10	Condensate leak detection system upgraded / Construction Complete
		4. Asbestos abatement.	Jan – 11	Abatement complete.
RA-3 Facilities Upgrades	Sub-CLIN 7.2	222-S Instrument Upgrades	Sep – 11	Instruments upgraded.
		1. Statements of Work for Priority Instruments (alpha energy analyzer, gamma energy analyzer, liquid chromatograph/mass spectrometer, ion chromatograph).	Sep - 09	Statements of work complete.
RA-3 Facilities Upgrades	Sub-CLIN 7.2	222-S Life Extensions (multiple subprojects)		
		1. Roof replacement.	Nov – 10	222-S roof replaced.
		2. Conditioned storage addition.	Oct – 10	Conditioned storage facility constructed.
		3. Replace HPT support facilities.	Sep – 10	Facility constructed.
		4. Replace mobile office.	Sep – 11	Office constructed.
		5. Replace HVAC control system.	Sep – 11	Control system installed.
		6. Renovate rooms.	Sep - 11	222-S rooms upgraded.
		7. Upgrade stairway access.	Sep - 09	Stairway access meets current building code.
RA-3 Facilities Upgrades	Sub-CLIN 7.2	222-S Upgrades (multiple subprojects)		
		1. Upgrade HVAC system to electric.	Sep - 11	Conversion to electric heat complete.
		2. Increase HLAN speed.	Sep – 09	HLAN upgraded.
		3. Room HVAC upgrades.	Sep – 11	HVAC for rooms upgraded.
		4. Back-up compressed air system.	Jul – 10	Air system installed.
		5. As-built electrical drawings.	Jul – 11	Drawings updated.
		6. Update PAX system.	Jun – 11	PAX system upgraded.
		7. Lighting upgrades.	Sep – 11	Light systems replaced.
		8. Access to fan deck upgrade.	Sep - 09	New access provided.
		9. Demolish MO-924.	Sep - 09	MO-924 demolished.
RA-3 Facilities Upgrades	Sub-CLIN 7.5	Effluent Treatment Facility (Grout and Waste Form Testing)		

Tank Operations Contract Contract No. DE-AC27-08RV14800

Analytical Building Block	Contract Line Item Number	Scope	Date*	Completion End Point(s)
		1. Test glass formulations for technetium retention.	Sep – 11	Issue final report.
		<ol> <li>Short-term leaching tests of grout formulations to solidify ETF waste streams.</li> </ol>	Sep – 11	Issue final report.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.1	DST Control Systems Update	Sep – 11	Control systems installed.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.1	Exhauster D&D (AW/AN)	Sep – 11	Exhausters removed.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AZ Condensate Line Upgrade	April – 11	Upgrades complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AW COB Isolation and Removal	May – 11	Construction complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Mixer Pump Design	May – 11	Mixer pump design complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Tank Waste Mixing Demonstrations		
		1. Complete small-scale mixing demonstration and submit draft report to DOE-ORP.	Sep - 10	Draft small-scale mixing demo report.
		2. Complete test loop demonstration and submit draft report to DOE-ORP.	Jan – 11	Draft test loop demonstration report.
		3. Complete small-scale sampling demonstration and submit draft report to DOE-ORP.	Jun – 11	Draft small-scale sampling demonstration report.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	AW D&D (SHMS-GCS Removal)	May – 11	Equipment Removal complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	SY-102 D&D (SHMS-GCS Removal)	Dec – 10	Equipment Removal complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Strategic Planning – Process Control Flow Sheets Complete for First 3 WTP Feed Tanks	Sep – 11	Flow sheet complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Waste Feed Delivery – Pre-Design/Design Activities for Waste Feed Delivery	Sep – 11	Design review complete.
RA-4 Waste Feed Infrastructure Upgrades	Sub-CLIN 7.3	Statements of Work and Procurement Specifications		
-		<b>1.</b> Prepare SOW for Exhauster D&D.	Dec - 09	Statement of work prepared.

#### Tank Operations Contract Contract No. DE-AC27-08RV14800

Analytical Building Block	Contract Line Item Number	Scope	Date*	Completion End Point(s)
		2. Complete Mixer Pump Procurement Specification.	Dec – 09	Procurement Specification prepared.
RA-5 Waste Feed Transfer Line Upgrades	Sub-CLIN 7.3	Transfer Line Upgrades – SL-177/SN-277 and SL-180/ SN-280	Sep – 11	Construction complete.
RA-5 Waste Feed Transfer Line Upgrades	Sub-CLIN 7.3	Transfer Line Upgrades – SN-278/SN-279 and SN-285/ SN-286	Sep – 11	Construction complete.
RA-5 Waste Feed Transfer Line Upgrades	Sub-CLIN 7.3	<ul> <li>Design</li> <li>1. Complete 90 % design for Transfer Line Upgrades – SL-177/SN-277 and SL-180/ SN-280.</li> </ul>	Dec – 09	90% Design complete.
		<ol> <li>Complete 90% design for Transfer Line Upgrades SN-278/SN-279 and SN-285/ SN-286.</li> </ol>	Mar – 10	90% Design complete.

\* Dates represent completion by the end of the month indicated.

<sup>®</sup> ENRAF is a registered trademark of Enraf B.V. Corporation, Delft, Netherlands.

COB = cleanout box

D&D = deactivation and decommissioning

DST = double-shell tank

DSTIP = double-shell tank integrity program

FY = fiscal year

GCS = Gas Characterization System

HLAN = Hanford Local Area Network

HPT = health physics technician

HVAC = heating, ventilation, and air conditioning

MO = mobile office

SHMS = Standard Hydrogen Monitoring System

SST = single-shell tank

WTP = Waste Treatment and Immobilization Plant