

ATTACHMENT J.11

SUPPLEMENTAL WORK DESCRIPTION TABLES

Section C, "*Statement of Work*", broadly describes the entire work scope the Office of River Protection contemplates as being performed under the Tank Operation Contract. For the purposes of proposal preparation and material difference determination per Section C 2.1.1, *Transition*, this table further defines that work scope.

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C.2.1	CLIN #1 - BASE OPERATIONS			
C.2.1.1	Sub-CLIN 1.1: Transition			
5.01.01	Transition	See Section C.2.1.1 " <i>Sub-CLIN 1.1: Transition</i> "	Not Applicable (N/A)	N/A
C.2.1.2	Sub-CLIN 1.2: Safe, Compliant Operation			
5.07.01	Base Operations	DST tank farm operations	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
5.07.02	Env/TPA Milestone Achievement	Environmental/TPA milestone achievement activities	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
5.07.03	Project Support	Project support activities, excluding 5.07.03.13, <i>Pension and Benefits</i>	N/A	Operational Status as of 9/30/2008
5.07.04	Essential Services	Essential services For WTP infrastructure support (See Section L.19(c)1(ii)A and Section L.20, Factor G: <i>Proposed Cost and Fee</i>).	N/A	Operational Status as of 9/30/2008
5.07.05.02.04	Evaporator Upgrades	Complete the following 242-A evaporator upgrades: <ul style="list-style-type: none"> • Replace the HVAC exhaust side systems; • Repair the sanitary drain system, from the change room, sinks, and showers; • Replace the EC-1 condenser; • Install the reboiler (E-A-1) and condensate system upgrades; • Install 242-A dip tube manual flush valves; • Replace the PB-2 relief valve and rupture disk; • Install a process condensate sampling station; • Upgrade the leak detection (Trace Tek) system on 	Regulatory Documentation Required ^F	No activities currently ongoing.

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		the condensate transfer line; and, <ul style="list-style-type: none"> • Rebuild 26 control valves throughout the process loop. 		
5.07.05.02.05	AY/AZ Farm Upgrade Projects	Complete the following AY/AZ Farm upgrades: <ul style="list-style-type: none"> • Ventilation upgrades that include computer, computer console, monitoring and controls for the ventilation system and associated equipment for AZ farm; • AZ Electrical System Upgrade; • Upgrade AZ farm recirculation system to support operations during retrieval of wastes to the waste treatment plant; • Installation of ENRAF densitometers in AY-101 and AZ-101 to support flammable gas measurements for retrieval of C-Farm waste; • Install AZ-102 supernate pump and jumper; and, • Replace AZ-101 Mixer Pumps. 	Regulatory Documentation Required ^F	No activities currently ongoing.
5.07.05.02.06	AP Farm Upgrade Projects	Complete the following AP Farm upgrades: <ul style="list-style-type: none"> • Replace AP Primary Exhauster; • AP level rise modifications to increase the waste level height to 460 inches; • Install AP-Farm ventilation upgrades including; vacuum breaker and air inlet stations, flow indicators, and install and test pit drain seals; and, • Deploy the Sludge/Liquid Interface Measurement System in AP-104, AP-105, and AP-108. 	Regulatory Documentation Required ^F	No activities currently ongoing.

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5.07.05.02.07	AN Farm Upgrade Projects	Complete the following AN Farm upgrades: <ul style="list-style-type: none"> • Install the ENRAF densitometer at AN-101; • AN Electrical System Upgrades; • Replace the AN Ventilation System; and, • AN-101 transfer pump manual start-up and test. 	Regulatory Documentation Required ^F	No activities currently ongoing.
5.07.05.02.08	AW Farm Upgrade Projects	Complete the following AW Farm upgrades: <ul style="list-style-type: none"> • Install the ENRAF densitometer at AW-102; • Replace SL-161 line (AW Farm); and, • Replace the AW-102 transfer pump. 	Regulatory Documentation Required ^F	No activities currently ongoing.
5.07.05.02.09	SY Farm Upgrade Projects	Complete the following SY Farm upgrades: <ul style="list-style-type: none"> • Install the ENRAF densitometer at SY-101; • SY Electrical System Upgrade; • Replace SY Ventilation System; • Replace SN-278/SN-279 Lines (SY Farm); • Replace SY-102 transfer pump which includes an in-line dilution system; and, • SY-101 Pit 01A repair and cleanup. 	Regulatory Documentation Required ^F	No activities currently ongoing.

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5.07.05.02.11	DST Infrastructure Upgrades	Complete the following DST infrastructure upgrades: <ul style="list-style-type: none"> • Install electronic routing boards; • Upgrade the instrumentation and monitoring capability of the Replacement Cross Site Transfer System (RCSTS); and • Activate the cross-site Slurry Transfer line. 	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.05.11 & 5.08.05.12	CP TSR Surveillance/ Maintenance & CP Operations Essential Services	SST tank farm operations	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
5.08.05.14	Solid Waste Management	Waste management activities including management of secondary wastes	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
C.2.1.3	Sub-CLIN 1.3: Analytical Laboratory Support			
5.10.01	222-S Laboratory	222-S maintenance and operation in support of analysis activities performed by the Analytical Services Production Contractor	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
C.2.2	CLIN #2 - SINGLE-SHELL TANK RETRIEVAL AND CLOSURE			
C.2.2.1	Sub-CLIN 2.1: Single-Shell Tank Retrieval			
5.08.05.01.04	Grand Junction Gamma Logging	Gamma logging activities	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
5.08.05.04	Technology Development	Retrieval technology development	N/A	Operational Status as of 9/30/2008
5.08.05.05	Cold Test Facility (CTF)	CTF operations and maintenance	N/A	Operational Status as of

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				9/30/2008
5.08.05.06	Vadose Zone	<p>Maintain the monitoring well network.</p> <p>Complete the following Vadose Zone Characterization & Corrective Measures annually:</p> <ul style="list-style-type: none"> • Drill one 250 foot deep borehole and take 22 samples. • Take thirty-five direct push samples. • Deploy subsurface geophysical techniques to guide subsequent characterization and remediation. <p>Use a groundwater risk based¹, graded² deployment approach which, when combined with interim actions/treatability studies performed prior to this contract, shall reduce the groundwater impacts of long-lived mobile radionuclide contaminants of concern from past tank leaks by 90%.</p> <p>Construct 4 surface barriers and associated water control features.</p> <p>¹ Groundwater risk as determined by existing ORP analyses (i.e. Initial Single Shell Performance Assessment, RCRA Facility Investigation Reports).</p> <p>² Graded deployment defined by sufficient understanding of plumes as dictated by past or ongoing characterization and evaluation of initial interim barrier(s) durability and infiltration reduction.</p>	Regulatory Documentation Required ^F	<p>Tank T106 interim barriers installed</p> <p>Surface Geophysical Exploration (SGE) deployment demonstrations are complete in B, BX/BY, TX/TY, U, C, and T farms</p> <p>Waste Management Area (WMA) C Data Quality Objectives phase 2 characterization is complete</p> <p>Corrective Measures Study for WMA C is complete</p>

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5.08.05.07	Waste Receiver Facilities (WRF)	Design and construct two WRFs in support of SST waste retrieval: one in the Northeast quadrant (B, BX, and BY tank farms) and one in the Northwest quadrant (T, TX, and TY tank farms).	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.06.03	B Farm Retrieval	<p>Complete design, procurement, installation, and startup and readiness for B-104 Retrieval.</p> <p>Complete retrieval of B-201, B-202, B-203, and B-204.</p> <p>Complete B-Farm retrieval infrastructure upgrades. Infrastructure scope includes the waste transfer systems from the farm to the Double Shell Tank Systems or supplemental treatment, the receiver tank modifications to support retrieval, and common systems that will be needed for waste retrieval such as ventilation skids and electrical power supply.</p>	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.06.05	BY Farm Retrieval	<p>Complete design for BY-101 retrieval.</p> <p>Complete design and procurement of BY Farm retrieval infrastructure upgrades. Infrastructure scope includes the waste transfer systems from the farm to the Double Shell Tank Systems or supplemental treatment, the receiver tank modifications to support retrieval, and common systems that will be needed for waste retrieval such as ventilation skids and electrical power supply.</p>	Regulatory Documentation Required ^F	No activities currently ongoing.

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5.08.06.06	C Farm Retrieval	<p>Complete retrieval of tanks C-101, C-102, C-104, C-105, C-107, C-110, C-111, and C-112.</p> <p>Complete C Farm retrieval infrastructure upgrades. Infrastructure scope includes the waste transfer systems from the farm to the Double Shell Tank Systems or supplemental treatment, the receiver tank modifications to support retrieval, and common systems that will be needed for waste retrieval such as ventilation skids and electrical power supply.</p>	<p>Three Tank Waste Retrieval Work Plans have been approved by the Washington State Department of Ecology for the C Farm Tanks: one for tanks C-103 and C-109; one for C-102, C-104, C-107, C-108, and C-112; and, one for tanks C-101, C-105, C-110, and C-111.</p> <p>Regulatory Documentation Required^F</p>	<p>No activities currently ongoing.</p>
5.08.07.01	S Farm Retrieval	<p>Complete retrieval of tank S-105.</p> <p>Complete design, procurement, installation, start-up, retrieval, equipment removal for sampling, and the post retrieval sampling and analysis, including hard heel removal of S-109. The scope of work does not include development of the Retrieval Data Report.</p> <p>Complete S-Farm retrieval infrastructure upgrades. Infrastructure scope includes the waste transfer systems from the farm to the Double Shell Tank Systems or supplemental treatment, the receiver tank modifications to support retrieval, and common systems that will be needed for waste retrieval such as ventilation skids and electrical power supply.</p>	<p>Functional Requirements Documents have been approved by the Washington State Department of Ecology for S-109, and S-112.</p> <p>Regulatory Documentation Required^F</p>	<p>Design and procurement of equipment to support Partial Retrieval of Tank S-109 to support the Demonstration Bulk Vitrification System is complete.</p> <p>There is a ventilation stub-out and some</p>

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				ducting to support Tank S-109 infrastructure.
5.08.07.03	T Farm Retrieval	<p>Complete retrieval of tanks T-104, T-110, T-111, T-201, T-202, T-203, and T-204.</p> <p>Complete T-Farm retrieval infrastructure upgrades. Infrastructure scope includes the waste transfer systems from the farm to the Double Shell Tank Systems or supplemental treatment, the receiver tank modifications to support retrieval, and common systems that will be needed for waste retrieval such as ventilation skids and electrical power supply.</p>	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.07.06	U Farm Retrieval	<p>Complete design, procurement, installation, start-up, retrieval, and equipment removal for sampling of U-103, excluding hard heel removal. The scope of work does not include post retrieval sampling and analysis, and development of the Retrieval Data Report.</p> <p>Complete design, procurement, and installation for U-103 hard heel removal.</p> <p>Complete design, procurement, installation, start-up, retrieval, and equipment removal for sampling of U-201, U-202, U-203, and U-204. The scope of work does not include post retrieval sampling and analysis, and development of the Retrieval Data Reports.</p> <p>Complete U Farm retrieval infrastructure upgrades. Infrastructure scope includes the waste transfer systems from the farm to the Double Shell Tank Systems or supplemental treatment, the receiver tank modifications to support retrieval, and common systems that will be</p>	Regulatory Documentation Required ^F	No activities currently ongoing.

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		needed for waste retrieval such as ventilation skids and electrical power supply.		
C.2.2.2	Sub-CLIN 2.2: Single-Shell Tank Farm (Waste Management Areas) Closure			
5.08.05.02	Regulatory Documentation	Regulatory documentation support	Regulatory Documentation Required ^F	Operational Status as of 9/30/2008
5.08.12.01	Closure Program Management	Closure program management activities	N/A	Operational Status as of 9/30/2008
5.08.13.03	B Farm Closure	Complete interim closure of tanks B-201, B-202, B-203, and B-204. Scope for interim closure of each tank includes characterization, engineering evaluation and reporting, deactivation and isolation of transfer lines, pits and penetrations to the tank, and placement of a grout layer in the bottom of the tank to stabilize the residual waste.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.13.06	C Farm Closure	<p>Complete interim closure of tanks C-101, C-102, C-103, C-104, C-105, C-106, C-107, C-108, C-109, C-110, C-111, C-112, C-201, C-202, C-203, and C-204. Scope for interim closure of each tank includes characterization, engineering evaluation and reporting, deactivation and isolation of transfer lines, pits and penetrations to the tank, and placement of a grout layer in the bottom of the tank to stabilize the residual waste.</p> <p>Complete the C-200 Closure Demonstration: in-situ pipeline characterization, pipeline removal and disposition, fill a C-200 series tank with grout, and remove waste from a catch tank.</p>	Regulatory Documentation Required ^F	No activities currently ongoing.

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5.08.13.07	S Farm Closure	Complete interim closure of tanks S-102 and S-112. Complete isolation design for S-105. Scope for interim closure of each tank includes characterization, engineering evaluation and reporting, deactivation and isolation of transfer lines, pits and penetrations to the tank, and placement of a grout layer in the bottom of the tank to stabilize the residual waste.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.13.09	T Farm Closure	Complete the isolation design, isolate the tank, and complete the tank fill design for T-104. Complete interim closure of tanks T-110, T-111, T-201, T-202, T-203, T-204. Scope for interim closure of each tank includes characterization, engineering evaluation and reporting, deactivation and isolation of transfer lines, pits and penetrations to the tank, and placement of a grout layer in the bottom of the tank to stabilize the residual waste.	Regulatory Documentation Required ^F	No activities currently ongoing.
C.2.3		CLIN #3 - WASTE TREATMENT PLANT SUPPORT		
C.2.3.1		Sub-CLIN 3.1: Treatment Planning and Waste Feed Delivery		
5.08.02.01	Waste Feed Delivery Program Management	Waste feed delivery program management activities	N/A	Operational Status as of 9/30/2008
5.08.02.02	Waste Feed Delivery Engineering/Modeling	Waste feed delivery engineering and modeling activities	N/A	Operational Status as of 9/30/2008
5.08.02.03	Waste Feed Delivery Characterization	Waste feed delivery characterization activities	N/A	Operational Status as of 9/30/2008

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5.08.02.04	Waste Feed Delivery Retrieval and Transfer Management	Waste feed delivery retrieval and transfer management activities.	N/A	No activities currently ongoing.
5.08.03.06	Double Shell Tank Retrieval Program	Double shell tank retrieval program management and engineering activities	N/A	Operational Status as of 9/30/2008
5.08.03.08	AP Farm Retrieval Systems	Complete installation of AP-101 Retrieval System. Complete AP-102 retrieval system design, procurement. Complete 58% of retrieval system construction (% of cost complete) Complete AP Farm retrieval infrastructure upgrades. Infrastructure scope typically includes a new dilution/flush system, control building modifications and new monitoring/control systems, and upgrades to the power supply system.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.03.09	AW Farm Retrieval Systems	Complete AW-104 retrieval system design, procurement. Complete 50% of retrieval system construction (% of cost complete) Complete design and procurement of AW Farm retrieval infrastructure upgrades. Infrastructure scope typically includes a new dilution/flush system, control building modifications and new monitoring/control systems, and upgrades to the power supply system.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.03.10	AY Farm Retrieval Systems	Complete installation of AY-102 retrieval system. Complete AY Farm retrieval infrastructure upgrades. Infrastructure scope typically includes a new dilution/flush system, control building modifications and new monitoring/control systems, and upgrades to the power supply system.	Regulatory Documentation Required ^F	No activities currently ongoing.

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5.08.03.11	AZ Farm Retrieval Systems	Complete installation of AZ-101 retrieval system. Complete AZ-102 retrieval system design. Complete 56% of procurement, and 67% of construction (% of cost complete.)	Regulatory Documentation Required ^F	No activities currently ongoing.
5.08.03.12	SY Farm Retrieval Systems	Complete installation of SY-101, SY-102, and SY-103 retrieval systems. Complete SY Farm retrieval infrastructure upgrades. Infrastructure scope typically includes a new dilution/flush system, control building modifications and new monitoring/control systems, and upgrades to the power supply system.		
5.08.04.02	Double Shell Tank Transfer System Modifications	Install AZ-031/AZ-1 condensate return line. Remove AW clean-up boxes (COBs) 3, 5, and 7 and modify the COBs transfer line. Replace transfer lines SL-177 and SN-277, SL-180 and SN-280, and SN-285 and SN-286.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.09.03.07.01	IHLW Baseline Management	IHLW baseline management	N/A	Operational Status as of 9/30/2008
5.09.03.07.02	IHLW Systems Definition	IHLW systems definition activities	N/A	Operational Status as of 9/30/2008
C.2.3.2	Sub-CLIN 3.2: WTP Operational Readiness			
5.03.01.04	WTP Operational Readiness	WTP operational readiness activities	N/A	No activities currently ongoing.
C.2.3.3	Sub-CLIN 3.3: Immobilized High Level Waste Storage and/or Shipping Facility Construction			

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5.09.03.03	Dispose ILAW	Design and procure the necessary equipment to transport Immobilized Low-Activity Waste and unique waste forms from the treatment facility to on-site disposal	Regulatory Documentation Required ^F	No activities currently ongoing.
5.09.03.04	Initial Immobilized High Level Waste (IHLW) Storage Facility	Complete modifications to the Canister Storage Building (CSB) consistent with "Project W-464 Final Design Report", RPP-18684, Rev. 0. The system shall have the capability to retrieve IHLW canisters from storage into shipping casks for transportation onsite and any additional facilities and infrastructure required to support storage/retrieval operations.	A modification to the CSB Section of the RCRA Part B Permit has been submitted to the Washington State Department of Ecology. Regulatory Documentation Required ^F	Final design is complete and documented in "Project W-464 Final Design Report", RPP-18684, Rev. 0.
5.09.03.07.04	Transport/ Receive/Interim Storage IHLW	CSB operations support to transition from construction to operations	N/A	No activities currently ongoing.
5.09.03.08	Prepare to Ship Immobilized High Level Waste	Design the Hanford Shipping Facility consistent with "Hanford Shipping Facility System Specification", RPP-20270, Rev.0.	Regulatory Documentation Required ^F	No activities currently ongoing.
C.2.4	CLIN #4 - TREATMENT			
C.2.4.1	Sub-CLIN 4.1: Demonstration Bulk Vitrification System (DBVS) Construction and Operations			
5.09.02.05.01 5.09.02.05.02 5.09.02.05.03 5.09.02.05.05 5.09.02.05.06 5.09.02.05.07 5.09.02.05.12	DBVS Project Management DBVS Permitting DBVS Project Support DBVS Procure & Construct DBVS Start-up and Testing DBVS Operations DBVS Management Reserve	Construct and operate the Demonstration Bulk Vitrification System (DBVS) Pilot Plant. Operate the DBVS Pilot Plant for 400 operating days and process / vitrify 190,000 to 300,000 gallons of Tank 241-S-109 waste containing a minimum of 286 metric tons of sodium and no more than 15,000 curies into a maximum of 50 vitrified waste packages.	The Final Dangerous and/or Mixed Waste Research Development and Demonstration Permit for the Demonstration Bulk	Design is complete and documented in RPP-24544, 2005, "DBVS/IQRPE RCRA Design", and RPP-25462,

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		Includes all necessary tank waste sample and analysis and tank waste transfers to the DBVS.	Vitrification System, Permit Number WA7890008967, is the permit for the construction and operation of the DBVS Pilot Plant. The construction authorization section of the permit was conditionally approved by Ecology on July 24, 2006. Regulatory Documentation Required ^F	2006, "Demonstration Bulk Vitrification Balance of Design" and Critical Decisions 0, 1, 2, and 3 have been approved by DOE.
C.2.4.2	Sub-CLIN 4.2: Extended DBVS Operations			
5.09.02.05.08.01 5.09.02.05.08.02 5.09.02.05.08.03 5.09.02.05.08.04 5.09.02.05.08.05 5.09.02.05.08.06 5.09.02.05.08.07 5.09.02.05.11.01 5.09.02.05.13.01	Extended DBVS Project Management Extended DBVS Permitting Extended DBVS Project Support Extended DBVS Design Modifications Extended DBVS Procure/Install System Modifications Extended DBVS Operate and Maintain Extended DBVS In-Line Process Monitoring Extended DBVS Decommissioning and Demolition Extended DBVS Management Reserve	Design, refurbish, operate, and decommission and demolish the Demonstration Bulk Vitrification System Pilot Plant as the Extended DBVS. The Extended DBVS will meet RCRA Part B and radiological operational requirements as an operating treatment facility. The Extended DBVS shall be designed, refurbished, and operated to process /vitrify the balance of Tank 241- S-109 and all of Tank 241-S-105 wastes containing a minimum of 690 metric tons of sodium into no less than 121 vitrified waste packages. Includes all necessary tank waste sample and analysis and tank waste transfers to the Extended DBVS.	The Research Development and Demonstration (RD&D) permit for the construction and operation of the DBVS Pilot Plant will expire after the DBVS completes a 50 box production run or 400 operating days.	No activities currently ongoing.

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			Regulatory Documentation Required ^F	
C.2.4.3	Sub-CLIN 4.3: Supplemental Treatment Design			
5.09.02.07.01.01 5.09.02.07.02.01 5.09.02.07.03.01 5.09.02.07.04.01 5.09.02.07.04.02 5.09.02.07.09.01	LAW Treatment Project Management 200E thru Prelim Design LAW Treatment Permitting 200E thru Prelim Design LAW Treatment Project Support 200E thru Prelim Design LAW Treatment Conceptual Design 200E LAW Treatment Preliminary Design 200E LAW Treatment Management Reserve 200E thru Prelim Design	Complete preliminary design and receive CD-2 for a 4 line Bulk Vitrification treatment facility in the 200 East area modeled after the Demonstration Bulk Vitrification System. Utilizes WTP pretreatment capability. Treats approximately 13,000 metric tons of sodium which is approximately 22 percent of the low activity waste (by weight of sodium). The waste will be vitrified into approximately 2,281 vitrified waste packages.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.09.02.08.01.01 5.09.02.08.01.03 5.09.02.08.01.05 5.09.02.08.02.01 5.09.02.08.02.03 5.09.02.08.04.01 5.09.02.08.04.02 5.09.02.08.09.01	Pretreatment Project Management 200W thru Prelim Design Pretreatment Quality Assurance 200W thru Prelim Design Pretreatment ESH&H 200W thru Prelim Design Pretreatment Permitting 200W thru Prelim Design Pretreatment Eng Support 200W thru Prelim Design Pretreatment Conceptual Design 200W Pretreatment Prelim Design (Title I) 200W Pretreatment Management Reserve - 200W thru Prelim Design	Complete preliminary design and receive CD-2 for a tank waste pretreatment capability in the 200W area using rotary micro-filtration to remove solids containing insoluble radionuclides from the tank waste; and either ion-exchange or fractional crystallization to remove soluble Cs137.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.09.02.09.01.01 5.09.02.09.02.01 5.09.02.09.03.01	LAW Treatment Project Management 200W thru Prelim Design LAW Treatment Permitting 200W thru Prelim Design LAW Treatment Project Support 200W thru Prelim Design	Complete preliminary design and receive CD-2 for a 4 line Bulk Vitrification treatment facility in the 200 West area modeled after the Demonstration Bulk Vitrification System. Utilizes the Pretreatment capability in 200W. Pretreatment capability in 200W constructed under WBS 5.09.02.08. Treats approximately 12,025 metric tons of	Regulatory Documentation Required ^F	No activities currently ongoing.

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5.09.02.09.04.01 5.09.02.09.04.02 5.09.02.09.09.01	LAW Treatment Concept Design 200W LAW Treatment Prelim Design 200W LAW Treatment Management Reserve 200W thru Prelim Design	sodium which is approximately 20 percent of the low activity waste (by weight of sodium). The waste will be vitrified into approximately 2,110 vitrified waste packages.		
C.2.4.4	Sub-CLIN 4.4: Supplemental Treatment Construction and Operations			
5.09.02.07.01.02 5.09.02.07.02.02 5.09.02.07.03.02 5.09.02.07.04.03 5.09.02.07.05.01 5.09.02.07.05.02 5.09.02.07.05.03 5.09.02.07.06.01 5.09.02.07.09.02	LAW Treatment Project Management 200E thru Start & Test LAW Treatment Permitting 200E thru Start & Test LAW Treatment Project Support 200E thru Start & Test LAW Treatment Final Design 200E LAW Treatment Fabrication 200E LAW Treatment Site Preparation 200E LAW Treatment Construction 200E LAW Treatment Startup & Testing 200E LAW Treatment Management Reserve 200E thru Start & Test	Complete final design, and construct 80% of a 4 line Bulk Vitrification treatment facility in the 200 East area modeled after the Demonstration Bulk Vitrification System. Utilizes WTP pretreatment capability. Treats approximately 13,000 metric tons of sodium which is approximately 22 percent of the low activity waste (by weight of sodium). The waste will be vitrified into approximately 2,281 vitrified waste packages.	Regulatory Documentation Required ^F	No activities currently ongoing.
5.09.02.08.01.02 5.09.02.08.01.04 5.09.02.08.01.06 5.09.02.08.02.02 5.09.02.08.02.04 5.09.02.08.03.02 5.09.02.08.03.03 5.09.02.08.04.03 5.09.02.08.04.04 5.09.02.08.05.01	Pretreatment Project Management 200W thru Start & Test Pretreatment Quality Assurance 200W thru Start & Test Pretreatment ESH&H 200W thru Start & Test Pretreatment Permitting 200W thru Start & Test Pretreatment Eng Support 200W thru Start & Test Pretreatment Technology Phase II 200W Pretreatment Technology Phase III 200W Pretreatment Final Design (Title II) 200W Pretreatment Const Engineering (Title III) 200W Pretreatment Procure & Fab 200W	Complete final design, construct, startup and test, and operate tank waste pretreatment capability in the 200W area using rotary micro-filtration to remove solids containing insoluble radionuclides from the tank waste; and either ion-exchange or fractional crystallization to remove soluble Cs137.	Regulatory Documentation Required ^F	No activities currently ongoing.

SECTION C/ WBS NO. ^A	WBS TITLE ^B	ACTIVITY DESCRIPTION ^C	REGULATORY DOCUMENTATION STATUS AS OF 09/30/2008 ^D	ASSUMED ACTIVITY STATUS AS OF 09/30/2008 ^E
5.09.02.08.05.02 5.09.02.08.05.03 5.09.02.08.05.05 5.09.02.08.06.01 5.09.02.08.06.04 5.09.02.08.06.05 5.09.02.08.06.06 5.09.02.08.07.01 5.09.02.08.07.02 5.09.02.08.09.02	Pretreatment Site Prep 200W Pretreatment Construction 200W Pretreatment Construction Support 200W Pretreatment Operational Acceptance Test 200W Pretreatment Operational Readiness Rev 200W Pretreatment Startup & Test 200W Pretreatment Startup & Testing Support 200W PT Pre-Operations Activities 200W Pretreatment Operations 200W Pretreatment Management Reserve - 200W thru Start & Test			
5.09.02.09.01.02 5.09.02.09.02.02 5.09.02.09.03.02 5.09.02.09.04.03 5.09.02.09.05.01 5.09.02.09.05.02 5.09.02.09.05.03 5.09.02.09.06.01 5.09.02.09.09.02	LAW Treatment Project Management 200W thru Start & Test LAW Treatment Permitting 200W thru Start & Test LAW Treatment Project Support 200W thru Start & Test LAW Treatment Final Design 200W LAW Treatment Fabrication 200W LAW Treatment Site Prep 200W LAW Treatment Construction 200W LAW Treatment Startup & Testing 200W LAW Treatment Management Reserve 200W thru Start & Test	Complete final design, construct, startup and test, and the Operational Readiness Review for a 4 line Bulk Vitrification treatment facility in the 200 West area modeled after the Demonstration Bulk Vitrification System. Utilizes the Pretreatment capability in 200W. Pretreatment capability in 200W constructed under WBS 5.09.02.08. Treats approximately 12,025 metric tons of sodium which is approximately 20 percent of the low activity waste (by weight of sodium). The waste will be vitrified into approximately 2,110 vitrified waste packages.	Regulatory Documentation Required ^F	No activities currently ongoing.
C.2.4.5	Sub-CLIN 4.5: Transuranic Tank Waste Treatment and Packaging			
5.09.02.02.01	TRU CH Packaging	Construct and operate a contact handled transuranic mixed waste packaging system and support equipment. This system will be deployed to receive, process, and package waste from tanks B-201, B-202, B-203, and B-204 in the 241-B Tank Farm. When treatment and packaging of the 241-B Tank Farm waste is complete, the	<ul style="list-style-type: none"> EPA recertified that DOE's WIPP continues to comply with the 	Project placed in standby mode September 2005.

SECTION C/ WBS NO. ^A	WBS TITLE ^B	ACTIVITY DESCRIPTION ^C	REGULATORY DOCUMENTATION STATUS AS OF 09/30/2008 ^D	ASSUMED ACTIVITY STATUS AS OF 09/30/2008 ^E
		entire packaging facility and system will be relocated to the 214-T Tank Farm to receive, process, and package the waste from tanks T-104, T-110, T-111, T-201, T-202, T-203, and T-204.	requirements of subparts B and C of 40 CFR Part 191(FR Vol 71, No 68, April 10, 2006). <ul style="list-style-type: none"> • Provided draft Class 3 permit modification request to the DOE Carlsbad Field Office for the Hazardous Waste Facility Permit issued to WIPP in support of allowing the management, storage, and disposal of CH-TRU mixed waste at WIPP from 11 Hanford single shell tanks (WIPP HWFP No. NM489013908 8 - TSDF, January 2005); • Tank Farm Contractor (TFC) certified Hanford Facility Dangerous Waste Permit 	

SECTION C/ WBS NO. ^A	WBS TITLE ^B	ACTIVITY DESCRIPTION ^C	REGULATORY DOCUMENTATION STATUS AS OF 09/30/2008 ^D	ASSUMED ACTIVITY STATUS AS OF 09/30/2008 ^E
			Application for the CH TRUM Waste Treatment, Packaging and Storage Facility was submitted to ORP (DOE/ORP-2003-22, Rev 0A, August 2004); <ul style="list-style-type: none"> • TCF submitted to ORP, RPP-23479, "Preliminary Documented Safety Analysis for the Contact-Handled Transuranic Mixed (CH-TRUM) Waste Facility"; • Regulatory Documentation Required^F 	
5.09.02.02.04	CH-TRU Characterization/Storage/Shipping (CSS)	Provide for transportation of the packaged waste to existing TRU storage facilities in the 200 west area Central Waste Complex.	Regulatory Documentation Required ^F	Project placed in standby mode September 2005.
C.2.5	CLIN #5 - EARLY FEED AND OPERATION OF THE WTP LOW ACTIVITY WASTE FACILITY			
C.2.5.1	Sub-CLIN 5.1: Tank Selection, Retrieval, Pretreatment and Feed Delivery Design			
5.09.02.12.01.01	Early LAW Pretreatment Project	Complete preliminary design and receive CD-2 for tank	Regulatory	No activities

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5.09.02.12.02.01 5.09.02.12.03.01 5.09.02.12.07.01	Management thru Prelim Design Early LAW Pretreatment Other Project Costs thru Prelim Design Early LAW Pretreatment Preliminary Design Early LAW Pretreatment Management Reserve thru Prelim Design	waste pretreatment capability to start the WTP LAW first as described in RPP-29981, Rev 1, "Evaluation of <i>Starting the Waste Treatment and Immobilization Plant (WTP) Low Activity Waste (LAW) Facility First</i> ".	Documentation Required ^F	currently ongoing.
C.2.5.2	Sub-CLIN 5.2: Retrieval, Pretreatment and Feed Delivery Construction and Operations			
5.09.02.12.01.02 5.09.02.12.02.02 5.09.02.12.03.02 5.09.02.12.04.01 5.09.02.12.04.02 5.09.02.12.05.01 5.09.02.12.06.01 5.09.02.12.07.02	Early LAW Pretreatment Project Management thru Start & Test Early LAW Pretreatment Other Project Costs thru Start & Test Early LAW Pretreatment Final Design Early LAW Pretreatment Procurement Early LAW Pretreatment Construction Early LAW Pretreatment Startup & Testing Early LAW Pretreatment Operations Early LAW Pretreatment Management Reserve thru Start & Test	Complete design, construct, startup and test, and operate tank waste pretreatment capability to start the WTP LAW first as described in RPP-29981, Rev 1, "Evaluation of <i>Starting the Waste Treatment and Immobilization Plant (WTP) Low Activity Waste (LAW) Facility First</i> ".	Regulatory Documentation Required ^F	No activities currently ongoing.
C.2.5.3	Sub-CLIN 5.3: Upgrade and Operate the Effluent Treatment Facility			
5.07.02.13.01	Effluent Treatment Facility Operations and Maintenance	Transition the Effluent Treatment Facility and the Liquid Effluent Retention Facility from PRC and operate it.	Regulatory Documentation Required ^F	No activities currently ongoing.
C.2.5.4	Sub-CLIN 5.4: LAW/BOF/Lab (LBL) Operations			
5.03.01.03.01.01	Early Operations LAW/BOF/Lab	Transition from the WTP contractor and operate the WTP Low Activity Waste Facility, the Balance of Facilities, and the Analytical Laboratory as described in RPP-29981, Rev 1, "Evaluation of Starting the Waste Treatment and <i>Immobilization Plant (WTP) Low Activity Waste (LAW)</i>	Regulatory Documentation Required ^F	No activities currently ongoing.

SECTION C/ WBS NO. ^A	WBS TITLE ^B	ACTIVITY DESCRIPTION ^C	REGULATORY DOCUMENTATION STATUS AS OF 09/30/2008 ^D	ASSUMED ACTIVITY STATUS AS OF 09/30/2008 ^E
		<i>Facility First</i> ^F .		
C.2.6	CLIN #6 - PENSION AND WELFARE PLANS			
C.2.6.1	Sub-CLIN 6.1: Hanford Employee Retirement and Benefit Plan Management			
5.07.03.13.01	Hanford Pension and Benefits	Section H Clause entitled, <i>Employee Compensation: Pay and Benefits</i> and Section H Clause entitled, <i>Post-Contract Responsibilities for Pension and Other Benefit Plans</i> .	N/A	Operational Status as of 9/30/2008
C.2.6.2	Sub-CLIN 6.2: Legacy Pension and Benefit Plan Management			
5.07.03.13.02	Rocky Flats Pension and Benefits	Section H Clause entitled, <i>Employee Compensation: Pay and Benefits</i> and Section H Clause entitled, <i>Post-Contract Responsibilities for Pension and Other Benefit Plans</i> .	N/A	Operational Status as of 9/30/2008
5.07.03.13.03	Other Legacy Plans Pension and Benefits	Section H Clause entitled, <i>Employee Compensation: Pay and Benefits</i> and Section H Clause entitled, <i>Post-Contract Responsibilities for Pension and Other Benefit Plans</i> .	N/A	Operational Status as of 9/30/2008
<i>Footnotes</i>				
A – WBS NUMBER – Section C/WBS Number - Identification number that shows each activity's location within Section C and the Tank Farm Project work breakdown structure. Section C.3 activities that are not project specific are in Sub-CLIN 1.2 entitled, Safe, Compliant Operations. Section C.3 activities that are project specific are in the specific project Sub-CLIN and WBS Number.				
B – WBS TITLE – The specific individual title assigned to a specific work breakdown structure number				
C – ACTIVITY DESCRIPTION – Work scope description for proposal preparation, and material difference determination per Section C 2.1.1, "Transition".				
D – REGULATORY DOCUMENTATION STATUS – This column identifies the estimated status of the regulatory pathway or the current decision document that provides the regulatory requirements for the activity as of September 30, 2008.				
E – ASSUMED ACTIVITY STATUS AS OF 01/01/2007 – Estimated progress status of each activity as of September 30, 2008.				
F – REGULATORY DOCUMENTATION REQUIRED – New regulatory documentation or a revision to the existing regulatory documentation may be required.				