

**U. S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC		2. DATE 10/23/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.03.08.01		5. WBS ELEMENT TITLE Paducah Legacy Low Level Waste Disposal	
6. INDEX LINE NO. N/A	7. REVISION NO. AND AUTHORIZATION Rev. 2		8. DATE 01/23/03
9. APPROVED CHANGES N/A			
10. SYSTEM DESIGN DESCRIPTION N/A		11. BUDGET AND REPORTING NUMBER N/A	
12. ELEMENT TASK DESCRIPTION			
WBS GRAPHIC			
See Attached			
INTRODUCTION			
To perform waste disposition activities for the disposal of 2400 cubic meters of legacy LLW currently stored outside and 4066 cubic meters of legacy LLW currently stored inside.			
Inside Inventory Disposal WBS: 04.03.08.01.02			
<ul style="list-style-type: none"> ? To sort, repackage, characterize and dispose of all remaining legacy LLW that is currently stored inside. ? To provide subcontractor technical support for the Paducah legacy LLW activities. Technical support includes: Engineering, Quality Assurance, data and sample management, radiological technicians, Nuclear Criticality and facility safety, DOT surveillances, and etc. ? To provide oversight of subcontractors. 			
DOE Primes WBS: 04.03.08.01.03			
<ul style="list-style-type: none"> ? To provide a vehicle for the transfer of disposal funds to DOE Prime contracts. 			
Outside Inventory Disposal WBS: 04.03.08.01.04			
<ul style="list-style-type: none"> ? To provide project management, task and baseline planning, and project controls for the Paducah legacy LLW activities. ? To sort, repackage, characterize and dispose of all remaining legacy LLW that is currently stored outside. ? To provide subcontractor technical support for the Paducah legacy LLW activities. Technical support includes: Engineering, Quality Assurance, data and sample management, radiological technicians, Nuclear Criticality and facility safety, DOT surveillances, and etc. ? To provide oversight of subcontractors. 			
ACRONYMS			
BJC	Bechtel Jacobs Company, LLC		
BCP	Baseline Change Proposal		
CX	Categorical Exclusion		
DMSA	United States Department of Energy Material Storage Area		
DOE	United States Department of Energy		
DOT	United States Department of Transportation		
EA	Environmental Assessment		

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FFCA Federal Facilities Compliance Agreement FONSI Findings of No Significance Impacts FY Fiscal Year HP Health Physics ISMS Integrated Safety Management System LCB Lifecycle Baseline LLW Low-Level Waste NCS Nuclear Criticality Safety NCSE Nuclear Criticality Safety Evaluation NEPA National Environmental Policy Act NTS Nevada Test Site ORO Oak Ridge Operations PACE Paper, Allied Industrial, Chemical and Energy Worker International Union PBI Performance Based Incentive RAD Radioactive RCRA Resource Conservation Recovery Act REA Request for Equitable Adjustment SMO Sample Management Office TCLP Toxicity Characteristic Leaching Procedure TSCA Toxic Substances Control Act USEC United States Enrichment Corporation USQ Un-reviewed Safety Question WAC Waste Acceptance Criteria WBS Work Breakdown Structure		
LOGIC RELATIONSHIPS		
Complete the sorting, repackaging, characterization and disposal of legacy LLW outside inventory (WBS 04.03.08.01.04) before beginning inside legacy LLW inventory disposal (WBS 04.03.08.01.02). LLW outside inventory (WBS 04.03.09.01) from FY 2002 LCB is now incorporated into WBS 04.03.08.01. Complete the sorting, repackaging, characterization and disposal of LLW stored in C-333 DMSAs to meet DSMAs schedule.		
SCOPE DESCRIPTION		
Release Sites and Facilities		
Assessments to be completed – NA		
Actions to be completed – NA		
Past and Future Accomplishments		
Past Accomplishments ? Shipped 294 cubic meters of empty ash receivers to NTS for disposal. ? Completed all the requirements of the TCLP FFCA. ? Sorted, repackaged and characterized for disposal 1250 cubic meters of the legacy outside LLW inventory. ? Shipped 475 cubic meters of C-301 soils and debris to NTS. ? Completed the crushing of empty containers from C-301 soil and debris LLW repackaging task.		

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04.03.08.01	Paducah Legacy Low Level Waste Disposal	
<p>Future Accomplishments</p> <ul style="list-style-type: none"> ? To sort, repackage, characterize and dispose of all remaining legacy LLW. ? Perform NCSE for the shipment and disposal of Paducah fissile waste at NTS. ? Ship 500 cubic meters of repackaged LLW to NTS. ? Ship 206 cubic meters of empty ash receivers to NTS for disposal. <p>Scope</p> <p>Inside Inventory WBS: 04.03.08.01.02</p> <ul style="list-style-type: none"> ? Complete the sorting, repackaging and characterization for disposal of the legacy inside LLW inventory. ? RCRA waste determination. ? Sort containers and repackage into approved containers. ? Sample and characterize waste to meet the WAC of an appropriate disposal facility. ? Develop and issue characterization reports and waste profiles. ? Complete the shipments for disposal of the legacy inside LLW inventory. ? Develop and conduct off-site shipment management reviews for the shipments of LLW. ? Develop necessary DOT documentation and ship LLW. ? Provide subcontractor technical support for the Paducah legacy LLW activities. Technical support includes: Engineering, Quality Assurance, data and sample management, radiological technicians, Nuclear Criticality and facility safety, DOT surveillances, and etc. ? Provide oversight of the Waste Operations Subcontractors and other BJC Subcontractors. ? Provide interface with disposal facilities in contracting services. ? Perform NCSE for the shipment and disposal of Paducah legacy fissile waste to NTS. ? Provide technical support, fieldwork, and shipment services for disposition of Ash Receivers to NTS (FY02 Carry over). <p>DOE Primes WBS: 04.03.08.01.03</p> <ul style="list-style-type: none"> ? Provide vehicle for the transfer of funds to DOE Contracts. <p>Outside Inventory WBS: 04.03.08.01.04</p> <ul style="list-style-type: none"> ? Provide project integration including task management, project control, baseline planning and BCPs. ? Complete the sorting, repackaging and characterization for disposal of legacy outside LLW inventory. ? RCRA waste determination. ? Sort containers and repackage into approved containers. ? Sample and characterize waste to meet the WAC of an appropriate disposal facility. ? Develop and issue characterization reports and waste profiles. ? Develop and conduct off-site shipment management reviews for the shipments of LLW. ? Develop necessary DOT documentation and ship LLW. ? Complete the shipments for disposal of the legacy outside LLW inventory. ? Provide subcontractor technical support for the Paducah legacy LLW activities. Technical support includes: Engineering, Quality Assurance, data and sample management, radiological technicians, Nuclear Criticality and facility safety, DOT surveillances, and etc. ? Provide oversight of the Waste Operations Subcontractors and other BJC Subcontractors. ? Provide interface with disposal facilities in contracting services. ? Complete the characterization of 1250 (750 m3 to complete) cubic meters of LLW, issue characterization reports and waste profiles (FY02 Carry over). 		

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? Complete shipment of 500 cubic meters LLW to NTS (FY 02 Carry over).		
Safety and Health Work Performance		
Introduction to the section		
<p>It is the core value of BJC that the safety and health of every worker and the public at large, and our environment, are the most important assets we are entrusted to protect. To accomplish this, an ISMS, based on DOE's ISMS, has been implemented that incorporates the Five Core Functions and is based on the Seven Guiding Principles. The objective of ISMS is to systematically integrate safety and environmental protection into the planning and execution of all work activities. The term safety encompasses Nuclear Safety, Industrial Safety, Industrial Hygiene, Occupational Health, HP, and environmental issues. ISMS requirements flow-down to BJC subcontractors. The Five Core Functions are: (1) Define the scope of work, (2) Analyze hazards, (3) Develop and implement hazard controls, (4) Perform work within controls, and (5) Provide feedback and continuous improvement. The Seven Guiding Principles are (1) Line Management Responsibility for Safety, (2) Clear Roles and Responsibilities, (3) Competence commensurate with responsibility, (4) Balanced Priorities, (5) Identification of Safety Standards and Requirements, (6) Hazard Control Tailored to Work Being Performed, and (7) Operations Authorization.</p> <p>Before a subproject begins, several activities must be completed to demonstrate that all involved in the project have completed rigorous health and safety reviews and that all potential hazards of doing the work have been identified. The routine activities are conducted in accordance with standard operating procedures, activity hazard analyses, and Integrated Safety Management plans. Non-routine work will require a readiness assessment as necessary to ensure complete health, safety, and environmental reviews prior to work start. This assessment is conducted by people, experienced in similar kinds of work, with the right to examine all aspects of a project about to commence, and require that the project team provide documented evidence that any applicable requirements of the job have been met.</p>		
REQUIREMENTS/DRIVERS		
<p>BJC Contract DE-AC05-98OR22700, December 18, 1997 ISMS Description, BJC/OR-87, Revision 1, April 1999. Paducah Waste Operations Subcontract 23900-BA-RM005F. DOE Order 435.1 "Integrated Safety Management System Description, BJC-GM-1400, Revision 2, October 2001 and Integrated Safety Management System Supplement, BJC-GM-1401, Revision 0, December 2000" Safety Analysis Report KY/EM-174, January 1997</p> <p>As applicable, indicate other regulatory-related requirements. CERCLA: N RCRA: N DNFSB: N DOE Orders: Y AEA: N UMTRCA: N State: N Other: N</p>		
WASTE VOLUMES		
Please see attached waste performance metrics, as applicable.		
PROJECT SCHEDULE		
Please see attached project summary schedule, project detail schedule, and Milestone Status Summary Report.		
EXECUTION YEAR BASELINE		
Please see attached Budgeted Cost of Work Scheduled Plan		

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BASELINE BY YEAR Please see attached Baseline by Year Report.		