

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 04.03.06.01		5. WBS ELEMENT TITLE Paducah Waste Operations	
6. INDEX LINE NO. N/A	7. REVISION NO. AND AUTHORIZATION Rev. 3		8. DATE 06/09/03
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 provide compliant storage of all legacy LLW, MLLW, TRU and TSCA waste and compliant operations of permitted landfills.			
Waste Operations WBS: 04.03.06.01			
<ul style="list-style-type: none"> ? To provide project management, task and baseline planning, project controls, oversight of subcontractors and technical support for Paducah Waste Operation activities. ? To perform interim storage of all DOE waste (LLW, MLLW, TRU, TSCA and TSCA/RAD) in compliance with RCRA and TSCA regulations and DOE Orders. ? To maintain the following facilities: C-746-A, C-746-B, C-746-M, C-746-Q, C-746-V, C-746-H3, C-733, C-752, C-752-A, C-753-A, C-333, and C-337. ? To operate the Paducah C-746-U solid waste contained landfill in compliance with Kentucky regulations. ? To maintain two inactive landfills C-746-S & T in compliance with Kentucky regulations. ? To dispose of collected wastewater from rainfall events. ? Discharge C-746-U & S leachate at an approved wastewater treatment facility. ? Characterize and dispose of 10,000 pallets. ? Complete seismic and fault study work related to meeting Condition 8 of the C-746-U Landfill Permit dated February 1, 2002. 			
ACRONYMS			
BJC	Bechtel Jacobs Company LLC		
BCP	Baseline Change Proposal		
DOE	United States Department of Energy		
EA	Environmental Assessment		
FFCA	Federal Facilities Compliance Agreement		
FONSI	Finding of No Significance Impacts		
FY	Fiscal Year		
ISMS	Integrated Safety Management System		
KAR	Kentucky Administrative Regulations		
KPDES	Kentucky Pollutant Discharge Elimination System		
LCB	Lifecycle Baseline		
LLW	Low-Level Waste		

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MLLW Mixed Low-Level Waste NCS Nuclear Criticality Safety NCSA Nuclear Criticality Safety Approval NCSE Nuclear Criticality Safety Evaluation NEPA National Environmental Policy Act NOV Notice of Violation NTS Nevada Test Site OREIS Oak Ridge Environmental Information System ORO Oak Ridge Operations PACE Paper, Allied-Industrial, Chemical and Energy Worker International Union PBI Performance Based Incentive PCB Polychlorinated Biphenyl PGDP Paducah Gaseous Diffusion Plant QA Quality Assurance RAD Radioactive RCRA Resource Conservation Recovery Act REA Request for Equitable Adjustment SCN Subcontract Change Notice SMO Sample Management Office S&M Surveillance and Maintenance STP Site Treatment Plan TSCA Toxic Substance Control Act TRU Transuranic Waste UE Uranium Enrichment WAC Waste Acceptance Criteria WBS Work Breakdown Structure WITS Waste Information Tracking System		
LOGIC RELATIONSHIPS		
Approved NEPA EA, FONSI and Landfill Authorized Limit Request.		
SCOPE DESCRIPTION		
Release Sites and Facilities		
Assessments to be completed NA		
Actions to be completed NA		
Past and Future Accomplishments		
Past Accomplishments		
? Performed compliant waste storage activities for all DOE waste including approximately 4,200 cubic meters of MLLW, approximately 6,500 cubic meters of LLW, approximately 6 cubic meters of TRU and maintenance of 12 facilities comprised of approximately 500,000 square feet of floor space.		
? Performed compliant operations of the C-746-U contained landfill and S&M of C-746-S & T closed		

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<p>landfills.</p> <ul style="list-style-type: none"> ? Characterized and disposed of 15,000 gallons of wastewater annually. ? Issued approved landfill EA and FONSI. <p>Future Accomplishments</p> <ul style="list-style-type: none"> ? Perform compliant waste storage activities for all DOE waste and maintenance of 12 facilities comprised of approximately 500,000 square feet of floor space. ? Continue operations of the C-746-U contained landfill and S&M of C-746-S & T closed landfills. ? Characterize and dispose of wastewater. ? Characterize and dispose of approximately 10,000 pallets in the C-746-U landfill. ? Complete the C-746-U Landfill seismic evaluation and fault study related to meeting Condition 8 of the permit issued February 1, 2002. <p>Scope</p> <p>Waste Operations</p> <ul style="list-style-type: none"> ? Provide project integration including task management, project control, baseline planning and BCPs. ? Operate the waste storage facilities, comprised of 12 facilities containing approximately 500,000 square feet of floor space, safely and in compliance with applicable procedures, regulations and standards. ? Conduct facility and waste inspections as required by permit, regulations and best management practices. ? Perform required maintenance and correct deficiencies found during inspections, audits and lesson learned, in a timely manner. ? Maintain an accurate waste inventory using the WITS. ? Maintain an accurate compilation of waste analytical data in the Paducah version of OREIS. ? Utilize a formalized work control system that incorporates the elements of ISMS, work control and use of procedures. ? Provide technical support including quality assurance, health physics, environmental services, nuclear criticality safety, facility safety, engineering, procurement, maintenance oversight, sample and data management and other technical support as required. ? Compile and submit waste data as needed for regulatory and DOE annual documents. ? Provide necessary support to overpack failed waste containers. ? Provide necessary support to cleanup small spills. ? Provide oversight of the Waste Operations Subcontractor and other BJC Subcontractors. ? Sample, characterize and dispose of approximately 10,000 pallets into the C-746-U landfill. <p>Landfill Operations</p> <ul style="list-style-type: none"> ? To dispose of waste from other Paducah DOE generators that meets the WAC. ? To operate and maintain the contained landfill comprising of approximately 25 acres of operating cells and 100 acres of permitted area and maintain the closed inert and residential landfills in compliance with operating permits. ? Review and approve generator landfill waste certification packages. ? Verify waste arriving at the landfill for disposal is in accordance with the WAC, associated landfill certification package, approved authorized limits request, landfill permit technical application and notice of intent. ? Operate and maintain the leachate collection systems. Leachate from the C-746-U and C-746-S landfills is collected, characterized, transported and discharged at an approved wastewater treatment 		

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<p>system.</p> <ul style="list-style-type: none"> ? Operate and maintain the C-746-U Landfill Leachate Treatment Facility after it is constructed. ? Maintenance and inspection of landfills, operating systems and equipment in accordance with permits, technical documents and regulatory requirements. ? Prepare and submit required reports in accordance with permits and regulatory requirements. ? Conduct an annual survey of the C-746-U landfill in accordance with the provisions of KAR 47:190, Section 8(1)(2). ? Mow the grassy areas of the landfills during the growing season as needed to maintain safe conditions, provide erosion control, seeding, fertilization, road grading, dust control, and general housekeeping as needed. ? Lease of low ground pressure equipment as required for placing waste in operating cells. <p>Wastewater Disposal</p> <ul style="list-style-type: none"> ? Collect, sample, characterize and discharge rainwater from waste facilities sumps and secondary containment that meets the KPDES discharge limits. <p>C-746-U Landfill Seismic Work</p> <ul style="list-style-type: none"> ? Complete the C-746-U Landfill seismic evaluation and fault study related to meeting Condition 8 of the permit issued February 1, 2002 (FY02 Carry over) <p>Safety and Health Work Performance</p> <p>Introduction to the section</p> <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, Health Physics, 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 that demonstrate 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> <p>REQUIREMENTS/DRIVERS</p> <p>BJC Contract DE-AC05-98OR22700, December 18, 1997</p>		

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<p>ISMS Description, BJC/OR-87, Revision 1, April 1999 Paducah Waste Operations Subcontract 23900-BA-RM005F Paducah Hazardous Waste Permit DOE Order 435.1 Paducah KPDES Permit Operating Permit 073-00014 for C-746-S Operating Permit 073-00015 for C-746-T Operating Permit 073-00045 for C-746-U DOE landfill authorization limits UE TSCA FFCA 40 CFR 761, TSCA and PCB Regulations "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: Y RCRA: Y DNFSB: N DOE Order: Y AEA: N UMTRCA: N State: Y OTHER: N</p> <p>WASTE VOLUMES Please see attached waste performance metrics, as applicable. The waste quantities supporting the method of accomplishment and basis of estimate are consistent with data reported on the Waste Performance Metrics Form.</p> <p>PROJECT SCHEDULE Please see attached project summary schedule, project detail schedule, and Milestone Status Summary Report.</p> <p>EXECUTION YEAR BASELINE Please see attached Budgeted Cost of Work Scheduled Plan</p> <p>BASELINE BY YEAR Please see attached Baseline by Year Report.</p>		