

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

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company		2. DATE 10/22/02	3. IDENTIFICATION NUMBER DE-AC05-03OR22980
4. WBS ELEMENT CODE 1.12.04.01.01.24		5. WBS ELEMENT TITLE CERCLA Waste Disposal Options	
6. INDEX LINE NO. n/a	7. REVISION NO. AND AUTHORIZATION Rev 2		8. DATE 5/28/03
9. APPROVED CHANGES n/a			
10. SYSTEM DESIGN DESCRIPTION n/a		11. BUDGET AND REPORTING NUMBER n/a	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>WBS GRAPHIC</p> <p>See attached.</p> <p>INTRODUCTION</p> <p>This sub-project includes an evaluation of off-site disposal, the use of the PGDP C-746-U Solid Waste Contained Landfill and an engineered disposal facility to support on-site disposal of remediation and D&D wastes generated from Paducah CERCLA actions.</p> <p>A field investigation was implemented to support the development of the on-site waste disposal option. The field investigation included regional and site-specific studies. This investigation will support determination of seismic conditions at PGDP. The seismic investigation field program results were presented in a technical report. Comments have been received from the regulators, therefore, the document will be revised and resubmitted. However, portions of the regional and site-specific studies were not completed and therefore additional studies are needed to complete the field investigation. If an on-site location other than the one described in the report is selected, additional site-specific studies will be needed.</p> <p>The CERCLA Waste Disposal Options is composed of 4 sub-project tasks. Work Breakdown Structure (WBS) element numbers assigned to the sub-project tasks are:</p> <ul style="list-style-type: none"> WBS 1.12.04.01.01.24.01 – Technical Management and Integration WBS 1.12.04.01.01.24.02 – Stage 2 Siting Study (Seismic Investigation) WBS 1.12.04.01.01.24.03 – U Landfill Risk Assessment/Performance Evaluation WBS 1.12.04.01.01.24.04 – Decision Documents <p>LOGIC RELATIONSHIPS</p> <p>The CERCLA evaluation process will be followed. This process will include performing a Remedial Investigation/Feasibility Study (RI/FS) to evaluate on-site disposal cell options and issuing a Proposed Plan and Record of Decision (ROD)/Land Use Control Implementation Plan (LUCIP) for implementation of the selected alternative. The design, construction, and operation of an on-site disposal cell would be included under a separate WBS. Potential major waste streams considered for the site-wide waste disposal strategy result from the Burial Grounds Cleanup; Surface Water Cleanup; Soils Cleanup; Groundwater Cleanup; Building C-340 D&D; Building C-410 D&D; D&D of Inactive Facilities; as well as WBS not currently defined, which will support D&D actions (both current D&D facilities and future D&D facilities); and other removal/remedial actions. Changes in the sequencing of any/all of these projects have the potential to impact the economic validity of this action.</p>			

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<p>SCOPE</p> <p>Past and Future Accomplishments</p> <p>Past Accomplishments</p> <ul style="list-style-type: none"> ? Completed Seismic Investigation and issued D1 Seismic Report ? Issued D1 U Landfill Risk Evaluation/Assessment <p>Future Accomplishments</p> <ul style="list-style-type: none"> ? Issue D2 Seismic Report ? ? Issue D2 C-746-U Landfill Risk Evaluation/Assessment ? Perform supplemental Seismic Investigation ? Issue D0,D1, and D2 RI/FS ? Issue Proposed Plan and ROD <p>Scope</p> <p>04.01.01.24.01 Technical Management and Integration</p> <p>Technical Management and Integration activities include the technical, subcontract, and project management necessary to ensure that all activities in the WBS elements are completed on schedule, within budget, and without safety or environmental incident. Technical Management and Integration includes the Project Manager, Safety Advocate, Subcontract Technical Representative, and Project Controls personnel who will perform project management, subcontractor oversight, ES&H support, and project scheduling and estimating. Other BJC/M&I support activities will be captured in individual WBS elements.</p> <p>Baseline Change Proposals – Prepare BCP documentation to make necessary corrections to the previous FY baseline when scope, schedule, or cost changes are determined necessary.</p> <p>Specific activities include:</p> <ul style="list-style-type: none"> - Ensure completion of all activities within the subproject is in compliance with the principals of Integrated Safety Management. - Maintain contact and open communications with the appropriate DOE Project Manager on the subproject activities. - Participate in biweekly technical information and monthly Project Status Review meetings to provide the DOE with project status summaries. - Manage the subcontracts and work authorizations issued to complete the work under the subproject. - Respond and supply information to DOE for Lessons Learned, surveillance and audits, Site-Specific Advisory Board support, and other DOE reporting mechanisms. - Maintain the monthly subproject estimates and estimates at completion. - Regulatory interfaces and meetings. <p>04.01.01.24.02 Stage 2 Siting Study (Seismic Investigation)</p> <p>The results of the seismic investigation were presented in a seismic report. The seismic investigation was conducted in FY 2002. The results and recommendations are presented in the Seismic Investigation Report and were submitted to the regulators. The regulators have provided comments to DOE, therefore the document will</p>		

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<p>be revised and resubmitted.</p> <p>04.01.01.24.03 U Landfill Risk Assessment/Performance Evaluation</p> <p>A performance evaluation of the U Landfill was performed. This performance evaluation was developed using the methodology in Appendix E “On-Site Disposal Facility Waste Acceptance Criteria Numerical Modeling Approach and Calculations” in the draft RI/FS on disposal options for CERCLA waste at the PGDP (DOE/OR/07-1935&D[-1]). The document was provided to the regulators. The regulators have provided comments to DOE, therefore the document will be revised and resubmitted.</p> <p>04.01.01.24.04 Decision Documents</p> <p>Supplemental seismic investigations will be included as an addendum to the existing seismic assessment plan. The investigations would include completion of the regional liquefaction study and site-specific statistical evaluation of the variability of soil properties, performing tightly spaced direct push technology (DPT) sampling in geophysical target areas to attempt to locate Holocene fault features, and evaluation of pertinent, previous and recent seismic information. If a different location for the on-site cell is selected, a new study would need to be performed to evaluate the seismic conditions.</p> <p>A D0, D1, and D2 RI/FS will be prepared to evaluate various options for an on-site disposal cell. The RI will incorporate available geologic, hydrogeologic, and seismic information to provide a conceptual model of disposal facility sites. The FS will evaluate various disposal options and recommend the most cost-effective alternative for disposal.</p> <p>Complete D0, D1, and D2 Proposed Plan. The Proposed Plan will be developed consistent with Section XIV of the Federal Facility Agreement (FFA).</p> <p>Complete D0, D1, and D2 ROD/LUCIP. The ROD includes: 1) description of the site conditions and background; 2) threats to public health or welfare or the environment, and statutory and regulatory authorities; and 3) proposed actions and estimated costs. The LUCIP will include, but not be limited to, identifying and current and future land use for the unit, identifying the necessary limitations on future land use, and identifying the types of controls and restrictions that will be implemented to achieve the land use control objectives.</p> <p>REQUIREMENTS/DRIVERS</p> <p>BJC Contract DE-AC05-03OR22980, May 1, 2003; Integrated Safety Management System Description, BJC/OR-87; Paducah FFA, dated February 13, 1998; SMP for PGDP, FY 2001 Annual Revision; applicable regulatory-related requirements (e.g., CERCLA, RCRA, TSCA, DOE Orders, pertinent State regulations, and agreed to ARARs).</p> <p>WASTE VOLUMES</p> <p>Please see attached waste performance metrics, as applicable. The waste quantities supporting the method of accomplishment and basis of estimate are consistent with the data reported on the Waste Performance Metrics form.</p> <p>PROJECT SCHEDULE</p> <p>Please see attached project summary schedule, project detail schedule, and milestone status summary. Schedule Assumptions:</p>		

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EXECUTION YEAR BASELINE Please see attached Budgeted Cost of Work Scheduled Plan. BASELINE BY YEAR Please see attached baseline by year report.		