



**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 01/08/2004	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 1.12.05.02.01.01		5. WBS ELEMENT TITLE PORTS Environmental Monitoring	
6. INDEX LINE NO.	7. REVISION NO. AND AUTHORIZATION N/A		8. DATE N/A
9. APPROVED CHANGES N/A			
10. SYSTEM DESIGN DESCRIPTION			11. BUDGET AND REPORTING NUMBER
<p>12. ELEMENT TASK DESCRIPTION</p> <p>WBS GRAPHIC</p> <p>See attachment.</p> <p>INTRODUCTION</p> <p>The U.S. Department of Energy (DOE) Environmental Restoration Program at the Portsmouth Gaseous Diffusion Plant (PORTS) is the subject of two enforcement actions. The State of Ohio issued a Consent Decree (CD) in August 1989, and the United States Environmental Protection Agency (USEPA) Region V issued an Administrative Order by Consent (AOC), under the authority of Section 3008(h) of the Resource Conservation and Recovery Act (RCRA) in September 1989 (amended in 1994 and 1997).</p> <p>This LCB will accomplish the Environmental Monitoring portion of the Environmental Restoration program, which includes all elements described in previous years under the Groundwater Protection Program, in accordance with regulatory requirements. Included in this scope of work are groundwater, surface water, and NPDES outfall sampling; sample analysis; regulatory reporting; and data management. This subproject may revert to Long-Term Stewardship in FY 2008.</p> <p>This Scope of Work will also included newly proposed FY 2003 and out-year activities which will include the development of a PORTS Groundwater Strategy document, evaluate and recommend groundwater data management changes and upgrades, and the development of geological/groundwater data management and conceptual visual presentation tools.</p> <p>The Environmental Monitoring team will support air monitoring; groundwater operations of remedial systems; well installation, maintenance, and abandonment activities; five-year reviews of implemented groundwater remedial actions; site assessments; and remedial actions. Support of these activities will be charged to the appropriate WBS element codes (Environmental Projects, Surveillance & Maintenance's groundwater operations, and others).</p> <p>LOGIC RELATIONSHIPS</p> <p>The Environmental Monitoring (05.02.01.01) subproject contains intra-subproject ties between activities and does not have any predecessor or successor relationships with other level six WBS elements or national windows or other regulatory milestones. This subproject contains inter-project relationships with PORTS Sitewide Assessments (05.01.01.01), PORTS Quadrant I Corrective Actions (05.01.02.01), PORTS Quadrant II Corrective Action (05.01.02.02), PORTS Post Remediation Surveillance and Maintenance (05.02.01.02), and potentially DOE Prime Waste Treatment/Disposal (09).</p> <p>Long-term S&M and Routine S&M activities are separated in the LCB so that base operations decline and long-term stewardship increases over time. This separation of long term S&M also assists in estimating the liability remaining following remediation. All S&M activities following remediation, e.g. surveillance, maintenance, monitoring, operations of treatment facilities, repair and replacement are included in long-term S&M. DOE Order 413.3 also requires this distinction between routine and long-term S&M.</p> <p>The PORTS Environmental Monitoring team also will support the following activities.</p> <p>Groundwater Operations (technical and management)</p>			



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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>Remedial Actions Support of these activities will be charged to the appropriate WBS element codes (Environmental Projects, Surveillance & Maintenance's groundwater operations, and others) as appropriate</p> <p>SCOPE DESCRIPTION</p> <p>Release Sites and Facilities</p> <p>Assessments to be completed</p> <p>None, all assessment activities will be performed in Sitewide Assessments (05.01.01.01).</p> <p>Actions to be completed</p> <p>None, Remedial Actions at RAIMS Units are not included in this WBS Element</p> <p>To implement the required scope of work for the PORTS Environmental Monitoring Program, the subproject has been broken out into Level 7 WBS elements. A full detail of the work that will take place can be found in the Integrated Groundwater Monitoring Plan (IGWMP) DOE/OR/11-1618 (most current approved version), the NPDES permit, and the Environmental Monitoring Plan (BJC/PORTS-119). These documents describe quantities, areas, number of samples, and all pertinent information needed. Level 7 WBS elements are summarized as follows.</p> <p>Environmental Monitoring Project Planning and Support Sample Collection Sample Analysis Data Management, Plans, and Reports Groundwater Strategies and development of a Technical Advisory Board Groundwater Data Management Reviews and Upgrades (GIS, Geologic Models, Groundwater F&T Models)</p> <p>Past and Future Accomplishments</p> <p>Past Accomplishment</p> <p>Environmental Monitoring Plan Groundwater Protection Program Management Plan Annual Site Environmental Report Annual Integrated Groundwater Water Report NPDES Best Management Practices (BMP) Plan Monthly NPDES Reports Sampling of the Northeastern Property Transfer Area Assessment Monitoring in the X-735/X-749A Landfills</p>			



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12. ELEMENT TASK DESCRIPTION (Continued) Update the Environmental Monitoring Plan (as needed) Update the Groundwater Protection Program Management Plan (as needed) Annual Site Environmental Reports Annual Integrated Groundwater Water Reports NPDES Best Management Practices (BMP) Plan Monthly and Quarterly NPDES Reports Support Groundwater Assessment and Monitoring of Pre and Post Remedial Actions Development of a PORTS Site-wide Groundwater Strategy Document and Advisory Program Upgrades of the environmental and groundwater data management, conceptualization presentation tools FY 2003 Scope The Environmental Monitoring portion of the Environmental Restoration program can be subdivides into three informal classifications. (1) Environmental Monitoring which includes surface water, groundwater, sediments, biological (terrestrial and aquatic), vegetation and associated sample collection; laboratory analysis; and evaluations to develop documentation deliverables in support of required PORTS regulatory submittals. (2) Groundwater Management to provide PORTS a technical team of resources and organized databases in support of PORTS environmental monitoring and remediation activities. (3) Environmental and Groundwater Strategies and technical advisory review board for independent reviews and resources outside of the PORTS technical pool. Project Planning and Support: Provide project level planning, oversight, support, project control, and reporting for all activities within the Environmental Monitoring project. This includes Project Management, Subcontract Management, Health & Safety oversight, Quality oversight, technical support for development of project specific technical specifications, procurement activities, field oversight, computer equipment and supplies necessary for technical oversight, sampling and field investigations, support for the Life Cycle Baseline, outyear budget submittals, and the following routine reports: Monthly Technical Progress Report Monthly Status Review Quarterly Progress Report Project Baseline Summary In addition, the following will be accomplished. Database maintenance will include P3, training database, PMCP, RAIMS, SPDRT, BPS, SQV. All scope will be accomplished in a Six Sigma fashion. Oversight Plans will be developed for each subproject and assessments conducted as approved in			



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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>the Configuration Management Plan for PORTS through the Configuration Control Authority and Site Configuration Manager.</p> <p>A project execution plan will be developed for each subproject to communicate to the project team the scope, method of accomplishment, performance criteria and metrics and procurement strategy. It is expected that the execution plan will be developed as a draft for each subproject, to be incorporated into a singular Environmental Monitoring execution plan. This plan will be presented to the Environmental Projects manager for approval or inclusion into an Environmental Projects execution plan.</p> <p>Sample Collection:</p> <p>Conduct routine water level measurements and groundwater monitoring at groundwater wells, manholes, surface water locations, residential well locations, and effluent sampling at NPDES outfall locations in accordance with the Integrated Groundwater Monitoring Plan (IGWMP), the NPDES Permit, and applicable Work Smart Standards (WSS)/DOE Orders. In addition to the well samples that are collected each year, there is Appendix IX well sampling and other well sampling that is done on a biennial basis in fiscal years ending in odd numbers. The current sites where groundwater wells are being monitored are X-120, X-749 N & S, X-749 A & B, X-533, X-611A, X-616, X-633, X-701B, X-734, X-735, X-740, 5-Unit Area, and 7-Unit Area. Included in this scope are preparing and labeling sample bottles; maintaining and calibrating equipment; measuring field parameters (including depth-to-water surveys at selected groundwater wells); collecting quality control samples; decontaminating sampling equipment when applicable; documenting activities; performing waste handling and disposition activities; completing quarterly inspections of site groundwater monitoring wells as part of routine sampling activities; and completing the monthly NPDES effluent report. Also included is the collection media (by USEC personnel) of additional sample at USEC's routinely monitored surface water locations for the analysis of selected radionuclides.</p> <p>Sample collection includes: Approximately 450 on-site and off-site groundwater well sampling events per year. Approximately 20 surface water samples per year (outfalls, surface water features, and groundwater exist pathway locations). Approximately 10 to 15 sediment samples per year, Approximately 15 vegetation and soil samples per year. Biological, food crop, and terrestrial animal samples as determined per regulatory guidance requirements.</p> <p>To determine the effectiveness of the Phyto remediation at the X-740, the groundwater monitoring program will support the collection of special Groundwater level measurements for a period of five years ending in FY 2005. This data will be used in the assesment of the Quadrant III remedial action.</p> <p>Sample Analysis:</p> <p>Perform required analysis of collected samples for chemical and radiological parameters in accordance with the IGWMP, the NPDES permit, special assessment sampling and remediation support for environment monitoring and groundwater program evaluation activities, and applicable WSS/DOE Orders.</p> <p>Data Management, Plans, and Reports:</p> <p>Prepare the Annual IGWMP Report, Annual NESHAP report (including compilation of data, regulatory compliance support, and in support of tasks associated with air permits) and the Annual Site Environmental Report (including data validation, data reporting, trend analysis/modeling of contaminant migration, and maps and figures, as appropriate). Maintain the NPDES permit, the NPDES Best Management Practices Plan; the Spill Prevention, Control, and Countermeasures Plan; the Environmental Monitoring Plan (EMP), the Groundwater Protection Program Management Plan (GWPPMP), and the IGWMP. Perform data</p>			



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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>Routine Submittals include the following documentation:</p> <ul style="list-style-type: none"> Quarterly Groundwater Reports, Annual Groundwater Reports NPDES Monthly Operating Report, NPDES Quarterly Operating Reports NPDES Permit Renewal Application Annual Site Environmental Report [ASER] Annual Site Data Report [ADR] Environmental Compliance Quarterly Report Well Inspection Reports, Synoptic Water Level Measurements Annual Site Maps IGWMP Revisions Monthly Data Trend Reports Monthly Summary of USEC collected Environmental related data Specific work task and evaluation reports as deemed necessary by the Groundwater Manager. <p>Groundwater Strategies:</p> <p>Prepare a PORTS sitewide Groundwater Strategy Document. The document will be developed to provide long-term groundwater management and technical guidance for monitoring and remediation activities at PORTS. Specific groundwater monitoring, remediation, long-term use objectives, and implementation guidance including success criteria will be documented for the site and per Quadrant. The document will be reviewed yearly and revised as appropriate.</p> <p>Historical, current, and planned groundwater monitoring and remediation programs will be reviewed and summarized per the Groundwater Program Manager directions. These reviews and evaluations will be used to assist with the development of groundwater strategies and groundwater remediation and performance monitoring, including S&M activities. Yearly reviews may be proposed at the end of this evaluation.</p> <p>Support the expected water level monitoring program to determine the effectiveness of the Phyto remediation alternative presently being implemented at the X-120/X-749 groundwater plume. The groundwater monitoring program is expected to be initiated in FY 2004 in support of the 5-year review of this remediation effort. The data will be used in the assessment of the Quadrant I remedial action. FY 2003 activities will include supporting the review of the current well monitoring network and develop a water level groundwater monitoring program to be used in support of evaluating the X-120/X-749 Phyto remediation alternative.</p> <p>An Expert Panel of internal BJC and external (non-BJC) groundwater experts will be assembled for review of PORTS groundwater monitoring and remediation activities. The panel is expected to be comprised of vadose zone and groundwater monitoring, modeling, remediation, geochemical, contaminant transport, and risk analysis experts. The panel is to meet quarterly (4 times a year) at the Portsmouth site or approved offsite facility. (Setup and 2 meetings are projected for FY 2003.) The panel is expected to review Environmental Project activities and to provide recommendation for successful completion of PORTS monitoring and groundwater remediation objectives.</p> <p>Groundwater Data Management Reviews and Upgrades:</p> <p>Activities will include the review, update, and maintenance of a PORTS Intranet site for decimation and evaluation of</p>			



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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>personnel) of additional sample at USEC's routinely monitored surface water locations for the analysis of selected radionuclides.</p> <p>Support water level monitoring to assist in determining the effectiveness of the Phyto remediation at X-740. The groundwater monitoring program is anticipated to be completed in FY 2005. This data will be used in the assessment of the Quadrant III remedial action.</p> <p>Support the expected water level monitoring program to determine the effectiveness of the Phyto remediation alternative presently being implemented at the X-120/X-749 groundwater plume. The groundwater monitoring program is expected to be initiated in FY 2004 in support of the 5-year review of this remediation effort. The data will be used in the assessment of the Quadrant I remedial action.</p> <p>***BCP 03-05.02.01.01-0683</p> <p>Scope provides for increased groundwater, surface water, and corrective actions monitoring in the vicinity of the PK/X749 Landfill areas during FY04 & FY05. This increased scope is in response to teh requirements stated in the Comprehensive Monitoring Plan for the X-749 and Peter Kiewit Landfill Areas for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio (DOE/OR/11-312&D1), which was developed by BJC Environmental Projects (Environmental Monitoring and Sitewide Assessments), and approved by the DOE Site Office and OEPA.</p> <p>*** End BCP 03-05.02.01.01-0683</p> <p>This WBS will also support additional groundwater remedial action activities as appropriate.</p> <p>Sample Analysis: Perform required analysis of collected samples for chemical and radiological parameters in accordance with the IGWMP, the NPDES permit, special assessment sampling and remediation support for environment monitoring and groundwater program evaluation activities, and applicable WSS/DOE Orders.</p> <p>Data Management, Plans, and Reports: Prepare the Annual IGWMP Report, Annual NESHAP report (including compilation of data, regulatory compliance support, and in support of tasks associated with air permits) and the Annual Site Environmental Report (including data validation, data reporting, trend analysis/modeling of contaminant migration, and maps and figures, as appropriate). Maintain the NPDES permit, the NPDES Best Management Practices Plan; the Spill Prevention, Control, and Countermeasures Plan; the Environmental Monitoring Plan (EMP), the Groundwater Protection Program Management Plan (GWPPMP), and the IGWMP. Perform data management activities including the preparation and incorporation of applicable data into OREIS acceptable format and trend analysis reporting of environmental monitoring data collected. Provide detailed evaluations and interpretations as deemed necessary by the PORTS Groundwater Manager.</p> <p>Groundwater Strategies: Maintain and update the PORTS site-wide Groundwater Strategy Documents as appropriate. The documents will provide long-term groundwater management and technical guidance for monitoring and remediation activities at PORTS. Continue the use of the Expert Panel for review of PORTS groundwater monitoring and remediation activities. The panel is to meet quarterly (4 times a year) at the Portsmouth site or approved offsite facility. The panel is expected to review Environmental Project activities and to provide recommendation for successful completion of PORTS monitoring and groundwater remediation objectives.</p>			



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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>system. Training of selected personnel (BJC, DOE, and selected Subcontractors) in the use of the GIS and Intranet web page as appropriate.</p> <p>Improve and expand the use of geologic modeling capabilities and site/quadrant related groundwater fate and transport computer models. Conduct geochemical modeling, uncertainty analysis, risk management, and alternative site use and remedy analysis as appropriate to support site wide groundwater monitoring and remediation activities.</p> <p>Support Activities: The PORTS Environmental Monitoring team will continue to support Groundwater Operations, Well Maintenance, Air Monitoring, Groundwater Remedial Action 5-Year Reviews, Site Assessment, Remedial Action Support. Support of these activities will be charged to the appropriate WBS element codes.</p> <p>Performance Metrics/Indicators Complete Regulatory Environmental Sampling Requirements (9/30/03) Environmental Reporting (9/30/03) Submit Monthly NPDES Reports (15th of each month) Issue 2002 IGWMP Revisions to regulators (12/15/02) Submit Annual Groundwater Report (4/1/03) Issue Annual NESHAP Report (7/1/03) Prepare Annual Site Maps (7/31/03) Issue Annual Site Environmental Report (9/30/03) PORTS Groundwater Strategy Document (3/30/03) Procure and initiation of an Environmental/Groundwater Expert Review Panel (3/30/03) Upgrade and Intranet access to the GIS based PORTS Groundwater/ Environmental data presentation and evaluation package (6/30/03) Summary report describing the Geologic and Groundwater modeling capabilities at PORTS, including recommended path forward (3/30/03)</p> <p>Waste Management</p> <p>Waste from the environmental monitoring field activities is expected to be minimal; however, whatever waste is generated will be containerized, characterized, packaged and shipped offsite (where appropriate) for treatment/disposal.</p> <p>Health and Safety Philosophy</p> <p>It is the core value of Bechtel Jacobs Company that the safety and health of every worker, the public at large, and our environment, are the most important assets we are entrusted to protect. To accomplish this, an Integrated Safety Management System (ISMS), based on DOE's DEAR 970, 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 protection. ISMS requirements flow-down to Bechtel Jacobs Company</p>			



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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>Control Tailored to Work Being Performed, and (7) Operations Authorization.</p> <p>Safety first is the M&I Contractor core value and is fundamental to every work activity. All accidents are preventable and the contractor strives to achieve "Zero Accident" performance on all jobs. Safety is everyone's responsibility. This includes public safety, employee safety, worksite safety, and protection of the environment.</p> <p>Wide ranges of formal and informal processes are in place for identification and analysis of the hazards associated with performing work at PORTS. These processes range from formal, detailed analytical hazard analysis, to informal pre-job assessments by the individuals actually performing the work. Programs exist which require specific hazard identification and analysis for each facility at PORTS. The Integrated Safety Management Process describes the process for implementing S&H for Environmental Management activities at PORTS. A set of Work Smart Standards has been established and is contractually binding for all Environmental Management activities performed at PORTS. A multi-discipline team of managers, hourly workers, and S&H professionals determined applicable standards. All known existing hazards were considered and applicable standards were selected from federal, state, DOE, and national consensus standards and requirements. Specific S&H disciplines (e.g., Facility Safety, Fire Protection, and Industrial Hygiene) maintain established individual programs for addressing hazards within their particular areas of expertise. Various processes exist at all levels for ensuring that work has been properly planned and authorized before it is begun. Complex, large-scale activities may be subjected to formal Operational Readiness Reviews, while routine, low-hazard tasks receive less formal analysis. Different S&H discipline programs are utilized to ensure operational readiness (e.g., Facility Safety - Unresolved Safety Question Determination). Computerized work planning processes assist planners in considering/addressing the entire range of safety and health hazards associated with work at PORTS. The workers perform the final readiness check as they examine the equipment, permits, and conditions of the worksite immediately prior to beginning work. Workers also continually remain alert to changing conditions and unidentified hazards as the job's progress. They are expected to bring issues to the attention of their supervisor. Trained S&H professionals provide field oversight of EM program activities and are alert for unforeseen hazards as well. The processes for addressing feedback and for continually improving S&H programs and activities are integral parts of the Integrated Safety Management System Process and are integral parts of the Project Delivery Process, which governs all Environmental Management activities at PORTS. Feedback received from external assessments, self-assessments, the lessons learned program, incident investigations, formally submitted employee concerns, and from day-to-day interaction with employees is given appropriate consideration. Based on information (feedback) from those sources, corrective actions are initiated with the goal of continually improving the safety and health of the public and employees.</p>			
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