



**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 01/09/2004	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 1.12.05.01.01.01		5. WBS ELEMENT TITLE PORTS Sitewide Assessments	
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
12. ELEMENT TASK DESCRIPTION WBS GRAPHIC See attached. INTRODUCTION 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). PORTS was constructed during the cold war to enrich uranium in support of both government and private programs. A majority of the plant is currently being maintained in Cold Standby under a contractual agreement between the United States Enrichment Corporation (USEC) and DOE. The Cold Standby agreement covers an initial period of two years, and following cessation of Cold Standby status and USEC Toll Transfer operations, plant facilities will be subject to Decontamination and Decommissioning (D&D) or Re-industrialization. The end state for the PORTS site is a controlled restricted federal facility with consideration for re-industrialization. Stakeholder discussions to date have resulted in the identification of preferred options to maintain industrial land use within the security fenced area and mixed industrial/commercial and potentially recreational land use within those areas of the federal reservation outside the security fence. This LCB will accomplish the completion of assessments, corrective measure studies and decision documents for all applicable release sites in accordance with regulatory requirements. The regulatory approach and initial planning for decontamination and decommissioning will be developed. LOGIC RELATIONSHIPS Site-wide Assessments (05.01.01.01) contains inter-project relationships with Quadrant I Corrective Actions (05.01.02.01), Quadrant II Corrective Actions (05.01.02.02), Environmental Monitoring (05.02.01.01), and Post-Remediation Surveillance and Maintenance (05.02.01.02). Predecessor and successor relationships between Assessments and Corrective Actions at the level six WBS element consist of logic ties necessary to support completion/approval of the remedial alternatives designated in the CAS/CMS documents. CMS approval is required prior to implementation of Decision Documents, CMI Work Plans and corrective measures (cleanup). Human Health Risk Assessment (HHRA) follows Corrective Measures Implementation per Consent Order/Consent Decree. Planning and compliance documentation (both regulatory and DOE) which are required prior to the start of D&D are to be completed under this subproject, and must be completed prior to the start of full D&D for the site. SCOPE DESCRIPTION			



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12. ELEMENT TASK DESCRIPTION (Continued) <table border="0"> <tr> <td>RAIMS</td> <td>Quadrant</td> <td>Release Site Name</td> </tr> <tr> <td>Unit #</td> <td>Location</td> <td></td> </tr> <tr> <td>2205</td> <td>Quadrant II</td> <td>X-701B Area Groundwater</td> </tr> <tr> <td>2206</td> <td>Quadrant II</td> <td>X-701B Holding Pond and Retention Basin Soils</td> </tr> </table> <p>Actions to be completed:</p> <p>No physical/remedial work associated with these actions will be completed within Site-wide Assessments WBS 05.01.01.01. All actions will be completed within Quadrant II WBS 05.01.02.02.</p> <p>PERFORMANCE METRICS/INDICATORS</p> <p>Site-wide Human Health Risk Assessment Submit Human Health Risk Assessment Study (HHRA) Work Plan to Ohio EPA for concurrence- January 30, 2003. Receive Ohio and US EPA approval of HHRA Work Plan - March 2003. Provide draft HHRA report to DOE/ BJC review- September 30, 2003</p> <p>Historic Preservation Act Activities</p> <p>Update cultural resource reports, including results of additional cultural resources sampling and submit to SHPO - June 30, 2003. DOE and SHPO reach programmatic agreement for PORTS site - September 30, 2003.</p> <p>Perform Risk Assessment Information Maintenance Support.</p> <p>Upgrade existing RAIS system and post changes on the web site - September 30,2003.</p> <p>CMI Work Plan for Quad II Decision Document.</p> <p>Submit CMI Work Plan to Ohio EPA for review - 45 days after receipt of Final Decision Document by DOE.</p> <p>X-740 Waste Oil Handling Facility Five-Year Evaluation.</p> <p>Submit Draft five- year evaluation report to the DOE site office - August 30, 2003.</p> <p>PAST AND FUTURE ACCOMPLISHMENTS</p> <p>Past Accomplishments</p> <p>Completed Quadrant II CMS Report Completed Quadrant I CMI Work Plan Completed Manganese in the Environment Study</p>				RAIMS	Quadrant	Release Site Name	Unit #	Location		2205	Quadrant II	X-701B Area Groundwater	2206	Quadrant II	X-701B Holding Pond and Retention Basin Soils
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<p>12. ELEMENT TASK DESCRIPTION (Continued)</p> <p>at or expected to migrate to selected points termed integrator points at the Portsmouth Gaseous Diffusion Plant (PORTS). The completion of this Site-wide Human Health Risk Assessment serves three major purposes. The primary purpose is to integrate all previous site characterization collected at PORTS, determine the health risks that may result from exposure to contaminants released from multiple source units to points in the integrator units at PORTS, and calculate remedial goal objective (RGOs) for sources protective of potential receptors at the integrator points. The second purpose of this assessment is to summarize all previous baseline human health risk work performed at PORTS and present this information in a single document. The third purpose of this assessment is to add to the information provided by the quadrant-specific human health risk assessments (HHRA) by addressing issues not covered by these earlier assessments.</p> <p>This assessment will be prepared to meet the requirements outlined in the EPA RCRA Facility Corrective Action Administrative Order by Consent (Consent Order) (Docket Number V-W-9-R-03) with DOE and the Ohio Environmental Protection Agency (Ohio EPA) Consent Decree (Civil Action Number C2-89-732) between the Ohio Attorney General, plaintiff, and Divested Atomic Corporation, et al., defendants.</p> <p>In the Consent Decree, DOE is directed to Aprepare a summary of actual and potential on-site and off-site health and environmental effects. "Specific items requiring summarization according to the Consent Decree include the types, physical states, and amounts of hazardous wastes, pollutants, industrial wastes or other wastes; the existence and condition of drums, tanks, landfills, surface ponding, and other containers; affected media and pathways of exposure; contaminated releases such as leachate and runoff; and any human or environmental exposure. The Consent Decree also requires that the establishment of clean-up objectives be based on Apublic health and environmental concerns."</p> <p>While these requirements have been met for the most part by the completion of the RFIs for each Quadrant at PORTS and other assessments and studies, this assessment will compliment these risk assessments completed on a site specific basis by integrating the impacts of multiple sources at various integrator points established to represent potential receptor locations.</p> <p>This assessment will also be completed under the direction of DOE Order 5400.4, which requires that all responses to releases or potentially imminent releases from facilities under DOE jurisdiction be in accordance with the provisions of CERCLA as amended by the Superfund Amendments and Reauthorization Act (SARA), Which under SARA, CERCLA is commonly referred to as Superfund. Additionally, all activities documented in this report have been performed in accordance with the National Environmental Policy Act (NEPA) of 1969, as amended, and any necessary and sufficient DOE orders pertaining to environmental restoration activities at facilities under DOE jurisdiction.</p> <p>This assessment is also needed in part, to comply with U.S. Department of Energy (DOE) Headquarters (HQ) findings that were the result of a "Top-to-Bottom Review" for the DOE Environmental Management (EM) Program. The purpose of the review was to provide more incentives and identify more efficient methods of cleanup in the national EM program. The Top-To-Bottom Review, released in February 2002, underscored the need to refocus EM's cleanup work on risk reduction, reduce mortgage costs, and to execute the work more quickly. In March 2002, DOE Oak Ridge Operations responded to the Review by submitting a Comprehensive Cleanup Closure Proposal. However, until there is a site wide baseline risk assessment completed, risk reduction in the PORTS EM Program will be difficult to measure.</p> <p>Historic Preservation Act Activities</p>			



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<p>Perform Risk Assessment Information Maintenance Support.</p> <p>During FY03 BJC and its subcontractor developed an on-line PORTS-specific Risk Assessment Information System (RAIS) that includes: a toxicity database, a PRG calculation tool, a risk calculation tool, PORTS background screening values, and ARARs, risk assessment guidance documents. Currently the PORTS-RAIS has fully automated the risk models in the RFIs. However there are two more models that are used in the CMS/CAS reports, that will complete the automation of the PORTS risk assessment process. One is the leachability standard and the other is a back calculation to determine soil and water contamination that results in contamination of fish and vegetables. This task not only incorporates the leachability model and the soil and water contamination for fish and vegetables and also addresses the maintenance of the RAIS. As new toxicity values are released and old values updated, both systems will be updated together. As new guidance is released on exposure parameters both systems will be updated. Also, as EPA releases new equations (which they just did for biota) and reformats old ones, both systems will be updated together. This information is valuable to PORTS to move forward with risk-based remedial actions as defined within the top-to-bottom review.</p> <p>CMI Work Plan for Quad II Decision Document.</p> <p>The Ohio Environmental Protection Agency is expected to release the Quadrant II Decision Document to the PORTS in February 2003. According to the Administrative Order by Consent, DOE PORTS has forty -five days after receipt of the Decision Document to submit the Corrective Measure Implementation (CMI) Work Plan to the regulatory agencies. This CMI work Plan consists of a Program Management Plan and a Community Relations Plan.</p> <p>X-740 Waste Oil Handling Facility Five-Year Evaluation</p> <p>The Decision Document for X-740 Waste Oil Handling Facility identified phytoremediation with hybrid poplar trees as the selected remedy for the X-740 groundwater plume. The decision document further states that "Five years after the installation of the selected alternative (phytoremediation) Ohio EPA will evaluate its effectiveness based upon the data collected and submitted via the Integrated Groundwater Monitoring Annual report and other groundwater reports." The five-year review of the X-740 Facility has been scheduled for completion by FY 03. In addition to the review of existing data, activities will also consist of removing two trees, one planted via the "trench sand stack method" and the other by the "boring method" to evaluate root structure development.</p> <p>Perform pre-evaluation of X-734 Landfill Cap, X-749/X-120 Groundwater Plume, 5 unit ground water plume, X-231A and X-231B caps, X-749B Peter Kiewit Landfill, and X-611A Prairie to determine data needs to evaluate the selected remedial action.</p> <p>According to the schedule DOE submitted to Ohio EPA the five year evaluation of the remedial action implemented at the X-734 landfill is due to the Ohio EPA in FY 05. The five year evaluation for the remedial actions implemented at X-749/X-120 groundwater plume, the Five unit area groundwater plume, the X-231A and X-231B caps and the reevaluation of the X-611A and the Peter Kiewit Landfill are due in FY 07. This activity entail reviewing the existing data for these units now to determine any data gaps that could effect the 5 year evaluation and fill those gaps so that a meaningful evaluation can be performed.</p>			