



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

<b>1. PROJECT TITLE/PARTICIPANT</b> Environmental Management/Bechtel Jacobs Company LLC		<b>2. DATE</b> 01/08/2004	<b>3. IDENTIFICATION NUMBER</b> DE-AC05-98OR22700
<b>4. WBS ELEMENT CODE</b> 1.12.05.02.01.02		<b>5. WBS ELEMENT TITLE</b> PORTS Post Remediation S&M	
<b>6. INDEX LINE NO.</b>	<b>7. REVISION NO. AND AUTHORIZATION</b> N/A		<b>8. DATE</b> N/A
<b>9. APPROVED CHANGES</b> N/A			
<b>10. SYSTEM DESIGN DESCRIPTION</b>		<b>11. BUDGET AND REPORTING NUMBER</b>	
<p><b>12. ELEMENT TASK DESCRIPTION</b></p> <p>WBS GRAPHIC</p> <p>See attached.</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 Level 6 Subproject will accomplish the Post-Remediation portion of the Environmental Restoration Program, which includes all elements described in previous years under the Surveillance and Maintenance (S&amp;M) and Groundwater Operations programs. Included in this scope of work are the long term surveillance and maintenance of closed/inactive Remedial Action units as well as the operation and maintenance of installed groundwater collection systems and treatment facilities until regulatory directed cleanup levels are achieved. The operation of these systems and facilities will prevent the migration of contaminants offsite and treat contaminated water to permitted levels. This subproject will also accomplish the modification of the X-622 facility and the construction of replacement facilities for the X-622T, designated as the X-627, and upgrade of X-624. This subproject may revert to Long Term Stewardship in FY2008.</p> <p>LOGIC RELATIONSHIPS</p> <p>Groundwater Operations contains inter-project relationships between this project and the Quadrant Corrective Actions (05.01.02.01 through 05.01.02.04) and PORTS Waste Disposition projects (WBS 05.03). Predecessor or successor relationships with the Quadrants at the Level 6 WBS element consist of logic ties between remediation activities and Facility modifications necessary to support the remediation requirements. Predecessor or successor relationships with the PORTS Waste Disposition project at the Level 6 WBS element consist of logic ties between groundwater treatment facility waste containerization activities and storage and final disposition of the facility waste. Successor relationships with DOE-Direct Disposal (Envirocare) at the Level 6 WBS element consist of logic ties between waste transportation activities disposition of the waste.</p> <p>SCOPE DESCRIPTION</p> <p>Release Sites and Facilities</p> <p>Assessments to be completed: None</p> <p>Actions to be completed: None</p> <p>Performance Metrics/Indicators</p> <p>Submit Quarterly S&amp;M Inspection Reports:</p>			



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<b>10. SYSTEM DESIGN DESCRIPTION</b>			<b>11. BUDGET AND REPORTING NUMBER</b>
<p><b>12. ELEMENT TASK DESCRIPTION</b> (Continued)</p> <p>Complete design phase of X-624 Facility by 04/01/03          Initiate construction phase of X-624 Facility by 08/12/03          Complete X-611A Prairie Burn by 11/02/02          Initiate well abandonment assessment/study for potential aggressive well abandonment program by 03/01/03          Submit annual report to DOE on wells that maintenance is performed (by 11/15/04 for FY03)</p> <p>Past and Future Accomplishments</p> <p>Past Accomplishments (Prior to FY 2003)</p> <p>Treated and remediated groundwater and wastewater in existing on-site facilities.          Operated and maintained ground water treatment facilities in compliance with regulatory and DOE requirements.          Maintained regulatory NPDES permitting requirements.          Prevented the migration of contaminants to recreational and residential receptors.          Completed 90% design of the project to replace the X-622T Facility.          Performed technical assessment for upgrade of X-624.          Completed the modification of the X-622 facility.          Maintained the following remedial action units:          X-231A, X-231B, X-749 North &amp; South, X-749A, X-749B, X-735 North &amp; South, X-611A, X-616, X-734, X-740, X-701C, and X-720          Submitted to Ohio EPA Quarterly Surveillance &amp; Maintenance Inspection Reports.          Determined, collected, and reviewed availability of existing radiological contamination data for PORTS, with gaps in data identified and summary reports issued          Installed refrigerant monitoring and alarm system in Room 62 of the X-7725 building to detect when the concentration of refrigerant gas exceeded the safety limit          Completed the 5-year evaluation report for the X-611A Corrective Measures Implementation.          Completed the 5-year evaluation report for the X-749B PK Landfill Corrective Measures Implementation.</p> <p>Future Accomplishments (FY 2003 and Outyears)</p> <p>Treat and remediate approximately 42 million gallons of groundwater and wastewater per year in existing on-site facilities.          Operate and maintain all ground water treatment facilities in compliance with regulatory and DOE requirements.          Operate and maintain the PORTS ambient air monitoring network (15 stations)          Perform groundwater monitoring maintenance (well repairs/installation/abandonment)          Maintain regulatory NPDES permitting requirements.          Prevent the migration of contaminants to recreational and residential receptors.          Complete project replacing the X-622T Facility.          Complete project upgrading the X-624 Facility.          Maintain the following remedial action units:          X-231A X-231B X-749 N &amp; S X-749A X-749B X-735 N &amp; S X-611A X-616 X-734 X-740 X-701B X-701C and</p>			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b>			
<p>FY 2003 Scope</p> <p>Groundwater Treatment Facility Operations:</p> <p>Performed by Site Services subcontractor are operational, custodial, sampling, and waste management activities associated with the groundwater treatment facilities X-622, X-622T, X-622T Replacement (X-627), X-623, X-624, X-625, and X-701E.</p> <p>Operational activities include operator readings and checks of pumps, tanks, filters, air compressors, air strippers, steam boilers, and water levels in vaults; filter change-outs; back-washing; well pump recovery tests; inspections; cleaning; drain and vault pumping; and receiving/pumping water from external sources. Operations supervision reviews/trends readings, inspects facilities, initiates and coordinates preventive and corrective maintenance activities, trains and interfaces with operators, coordinates work permits, and writes reports.</p> <p>Wastren Site Services subcontract modified to accomplish with revised proforma requirements identified in gap analysis process.</p> <p>Sample collection activities include collecting water samples, packaging/labeling of samples, coordination with Health Physics technician for release of samples, transportation of samples to approved laboratory, interface with approved laboratory concerning sample submittals and chain-of-custody paperwork, tracking of laboratory results through the Project Environmental Measurements System (PEMS), ordering sampling equipment and materials, and handling of any PPE waste generated by the sampling activities.</p> <p>Sample analysis activities include laboratory analysis activities, i.e., interface with sampling personnel concerning sample submittals and chain-of-custody paperwork, analysis of water samples for required analysts, supervisory check/approval of analysis results, interface with PEMS to input analysis results into computer system.</p> <p>Waste management activities include drumming of spent carbon media into B-25 boxes or 55-gallon drums (as appropriate) after carbon vessel change-outs, collection of bag/cartridge filters in 90 day accumulation area after filter change-outs, collection of any waste PPE generated during carbon vessel change-outs and normal operations, collection of any neat-TCE material during operations, drum removal of iron filing filter media used in the X-625 facility, and writing of RFD forms to transport waste to storage, and transportation cost to move waste drums/B-25 boxes to storage.</p> <p>Custodial activities include aluminum recycling, waste paper recycling, trash collection, rest room cleaning, floor sweeping, mopping, limited relamping, and other custodial type tasks.</p> <p>Groundwater Treatment Facility Maintenance:</p> <p>Performed by Site Services subcontractor are preventive maintenance activities associated with X-701E, X-622, X-622T, X-622T Replacement (X-627), X-623, X-624, and X-625 groundwater treatment facilities which include the following:</p> <p>Instruments - calibration of flow meters, totalizers, gauges, alarms, pH adjustment, air strippers, steam heater humidity controls.</p>			



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<p><b>12. ELEMENT TASK DESCRIPTION (Continued)</b></p> <p>alarm slaves, motors.</p> <p>Mechanical - pumps, bearings, air strippers, air compressors, boiler cleaning, well clean-outs, valves, piping, extraction wells, trenches, and sump pumps.</p> <p>Collection System - well clean-outs and control panel desiccant pack inspection and/or replacement.</p> <p>Performed by Site Services subcontractor are corrective maintenance activities associated with groundwater treatment facilities X-622, X-622T Replacement (X-627), X-623, X-624, X-625, and X-701E. These activities include repair/replacement of well pumps, building pumps, radiation cluster alarms, tanks, carbon vessels, filters, air compressors, valves, piping, trench clean-out, flow instruments, HVAC system, hot water heater, boiler, air strippers, chart recorders, pH controllers, tank level alarms, overhead doors, building shells, pressure gauges, controllers, transmitters, change out of peerless iron at the X-625 and telephones. Collection system corrective maintenance includes transfer piping/trench clean-outs, tanking operations support, and pump repair/replacement). Predefined maintenance requirements to the facilities that underwent modification or replacement will, for a period of one year, be the responsibility of the subcontractor that performed that work.</p> <p>Ground Water Treatment Facility Modifications and Replacements:</p> <p>X-622T Replacement - Complete construction phase (excluding start-up, testing, and demolition) of Ground Water Treatment Facility X-627 project to replace the X-622T facility, implementing air stripper technology to remove volatile organic compounds. The X-622T will be demolished down to slab only.</p> <p>X-624 Upgrade- Complete design and initiate construction phase of X-624 Facility upgrade.</p> <p>***BCP 0554: Modify the X-625 Groundwater Treatment Facility for shutdown, including isolating the X-120 horizontal well and laying-up the X-625 facility located in Quadrant I of the Portsmouth Gaseous Diffusion Plant, Piketon OH. The objective is to isolate the well in place in a safe condition. The well abandonment will be done at a later date. Specific scope is identified in "Option 1" of BJC LTR-EP-RC-03-008, dated 01/28/03. Current routine operations will continue until such time that shutdown modifications are completed per this BCP. Future operational requirements will need to be determined to support future regulatory agreements and other concerns. Consideration is given to the need to start up operations at a later date, if required. If start up is required at a later date, a separate BCP will be initiated to capture scope and funding required for start up operations. Heating will be maintained during cold weather and periodic inspections of building will continue. End BCP 0554***</p> <p>Inspections and Reports:</p> <p>Conduct routine and special inspections at the following Remedial Action units: X-231A, X-231B, X-749 North, X-749 South, X-749A, X-749B, X-734, X-735 North, X-735 South, X-611A, X-740, X-701C, X-720, and X-616. Included in the scope is the preparation of quarterly and annual reports.</p> <p>Routine Grounds Maintenance &amp; Repairs:</p>			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b> <p>remains as designed.</p> <p>Routine Well Maintenance:</p> <p>Perform painting, welding, concrete pad repair, etc. for up to 100 groundwater monitoring wells to ensure the well integrity is preserved and maintaining NPDES permitting requirements. Included in the scope is the mowing around all wells. Provide annual report to DOE on wells that maintenance is performed.</p> <p>Well Repair/Installation/Abandonment:</p> <p>Perform groundwater monitoring system maintenance (including pump replacement, well replacement, installation, or abandonment activities in accordance with Ohio EPA guidance) including waste handling and disposition activities. In FY 03, up to twelve new wells will be installed, up to six wells abandoned and up to five pumps replaced. Also, initiate a well abandonment assessment/study for potential aggressive well abandonment program.</p> <p>Air Monitoring:</p> <p>Operate and maintain the PORTS ambient air monitoring network of 15 stations, perform preventative maintenance and corrective maintenance including mowing around the stations. Collect and analyze air samples. Scope also includes operation of an Environmental TLD Program to measure external gamma radiation exposure using environmental TLD's. This program includes Neutron measurement near cylinder yards and background locations.</p> <p>Post Remediation S &amp; M Project Planning &amp; Support:</p> <p>Provide project level planning, oversight, technical support, Radcon support, and financial control and reporting for all activities within this project. This includes, but is not limited to: Project Management, Subcontract Management, procurement support, Environmental, Safety and Health oversight, Quality oversight, support for the Life Cycle Baseline, other out-year budget submittals, and the following routine reports.</p> <p>Monthly Technical Progress Report          Monthly Status Review Report          Midyear Project Status Review          Quarterly Project Status Review          Year-end Project Status Review          Quarterly Progress Report          Project Baseline Summary Report          Site Baseline Summary Report</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.</p>			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b>			
<p>Out-year Scope</p> <p>Groundwater Treatment Facility Operations:</p> <p>Performed by Site Services subcontractor are operational, custodial, sampling, and waste management activities associated with the groundwater treatment facilities X-622, X-622T Replacement (X-627), X-623, X-624, X-625, and X-701E.</p> <p>Operational activities include operator readings and checks of pumps, tanks, filters, air compressors, air strippers, steam boilers, and water levels in vaults; filter change-outs; back-washing; well pump recovery tests; inspections; cleaning; drain and vault pumping; and receiving/pumping water from external sources. Operations supervision reviews/trends readings, inspects facilities, initiates and coordinates preventive and corrective maintenance activities, trains and interfaces with operators, coordinates work permits, and writes reports.</p> <p>Sample collection activities include collecting water samples, packaging/labeling of samples, coordination with Health Physics technician for release of samples, transportation of samples to approved laboratory, interface with approved laboratory concerning sample submittals and chain-of-custody paperwork, tracking of laboratory results through the Project Environmental Measurements System (PEMS), ordering sampling equipment and materials, and handling of any PPE waste generated by the sampling activities.</p> <p>Sample analysis activities include laboratory analysis activities, i.e., interface with sampling personnel concerning sample submittals and chain-of-custody paperwork, analysis of water samples for required analysts, supervisory check/approval of analysis results, interface with PEMS to input analysis results into computer system.</p> <p>Waste management activities include drumming of spent carbon media into B-25 boxes or 55-gallon drums (as appropriate) after carbon vessel change-outs, collection of bag/cartridge filters in 90 day accumulation area after filter change-outs, collection of any waste PPE generated during carbon vessel change-outs and normal operations, collection of any neat-TCE material during operations, drum removal of iron filing filter media used in the X-625 facility, and writing of RFD forms to transport waste to storage, and transportation cost to move waste drums/B-25 boxes to storage.</p> <p>Ohio EPA selected alternative for the X-749/X-120 groundwater plume remediation may require the need to operate the X-625. Dependent upon the success of the selected alternative, Ohio EPA will allow the shutdown of X-625 three years after the completion of construction of the X-749/X-120 groundwater plume remediation alternatives.</p> <p>Custodial activities include aluminum recycling, waste paper recycling, trash collection, rest room cleaning, floor sweeping, mopping, limited relamping, and other custodial type tasks.</p> <p>Groundwater Treatment Facility Maintenance:</p> <p>Performed by Site Services subcontractor are preventive maintenance activities associated with X-701E, X-622, X-622T Replacement (X-627), X-623, X-624, and X-625 groundwater treatment facilities which include the following:</p>			



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<p>Electrical - maintenance of switch gear transformers, lighting, power sources, boilers, unit heaters, heat tracing, radiation cluster alarm slaves, motors.</p> <p>Mechanical - pumps, bearings, air strippers, air compressors, boiler cleaning, well clean-outs, valves, piping, extraction wells, trenches, and sump pumps.</p> <p>Collection System - well clean-outs and control panel desiccant pack inspection and/or replacement.</p> <p>Performed by Site Services subcontractor are corrective maintenance activities associated with groundwater treatment facilities X-622, X-622T Replacement (X-627), X-623, X-624, X-625, and X-701E. These activities include repair/replacement of well pumps, building pumps, radiation cluster alarms, tanks, carbon vessels, filters, air compressors, valves, piping, trench clean-out, flow instruments, HVAC system, hot water heater, boiler, air strippers, chart recorders, pH controllers, tank level alarms, overhead doors, building shells, pressure gauges, controllers, transmitters, change out of peerless iron at the X-625 and telephones. Collection system corrective maintenance includes transfer piping/trench clean-outs, tanking operations support, and pump repair/replacement). Predefined maintenance requirements to the facilities that underwent modification or replacement will, for a period of one year, be the responsibility of the subcontractor that performed that work.</p> <p>Ground Water Treatment Facility Modifications and Replacements:</p> <p>X-622T Replacement - Complete start-up/testing/demolition phase of Ground Water Treatment Facility X-627 project to replace the X-622T facility, implementing air stripper technology to remove volatile organic compounds. The X-622T will be demolished down to slab only.</p> <p>X-624 Upgrade- Complete construction/demolition phase of X-624 Facility. Demolition consists of removal and disposal of excess equipment.</p> <p>X-625 - Ohio EPA selected alternative for the X-749/X-120 groundwater plume remediation will require the need to operate the X-625 until phyto-remediation has demonstrated its effectiveness. This will allow the shutdown of the X-625 Facility in FY 2006, which is three years after the completion of construction of the X-749/X-120 groundwater plume remediation alternatives.</p> <p>Inspections and Reports:</p> <p>Conduct routine and special inspections at the following Remedial Action units: X-231A, X-231B, X-749 North, X-749 South, X-749A, X-749B, X-734, X-735 North, X-735 South, X-611A, X-740, X-701B, X-701C, X-720, and X-616. Included in the scope is the preparation of quarterly and annual reports. See Milestone Status Summary Report for dates.</p> <p>Routine Grounds Maintenance &amp; Repairs:</p> <p>Perform routine cutting of vegetation, fertilization, seeding, and mulching at Remedial Action units. Included in the scope is the removal of trash/debris nest and erosion control and other minor repairs as well as leachate collection activities at the X-735. In</p>			



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<p><b>12. ELEMENT TASK DESCRIPTION (Continued)</b></p> <p>Routine Well Maintenance:</p> <p>Perform painting, welding, concrete pad repair, etc. for up to 100 groundwater monitoring wells to ensure the well integrity is preserved and maintaining NPDES permitting requirements. Included in the scope is the mowing around all wells. Provide annual report to DOE on wells that maintenance is performed.</p> <p>Post Remediation S &amp; M Project Planning &amp; Support:</p> <p>Provide project level planning, oversight, technical support, and financial control and reporting for all activities within this project. This includes, but is not limited to: Project Management, Subcontract Management, procurement support, Environmental, Safety and Health oversight, Quality oversight, support for the Life Cycle Baseline, other outyear budget submittals, and the following routine reports.</p> <p>Monthly Technical Progress Report          Monthly Status Review Report          Midyear Project Status Review          Quarterly Project Status Review          Year-end Project Status Review          Quarterly Progress Report          Project Baseline Summary Report          Site Baseline Summary Report</p> <p>Maintain Curative Measures commitment tracker system that enhances the identification and tracking of various corrective actions, reportable occurrences, walkthroughs, surveillances, environmental compliance items, and management commitments. Associated tasks include distributing weekly tracker reports, issuing monthly progress reports, and developing and/or reviewing corrective action plan, lessons learned and root cause analysis in support of selected curative measures.</p> <p><b>SAFETY AND HEALTH WORK PERFORMANCE</b></p> <p>It is the core value of Bechtel Jacobs Company 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 Integrated Safety Management System (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 Bechtel Jacobs Company 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>			





\*\*\*\*\* Baseline Scenario: Post Remed. S&M Dictionary \*\*\*\*\*

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