



**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 1.12.05.02.02.04		5. WBS ELEMENT TITLE PORTS O&M of Alternative Heat	
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 Portsmouth Gaseous Diffusion Plant 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 is currently assumed to last through FY 2006. The purpose of this subproject is to provide for the operation and maintenance of a new alternative heating system which has been previously installed to replace the heat of compression that was lost when the gaseous diffusion plant was placed in Cold Standby. Facilities covered under this subproject will be managed and maintained until Decontamination and Decommissioning (D&D) is initiated. The project end state will occur when the remaining facilities under the scope of this subproject are transferred to D&D. Natural gas will be the primary fuel source for operation of the alternative heating system. Natural gas will be purchased directly by DOE via a contract with Pike Natural Gas and reported and managed under DOE-Direct WBS 09.01.01.25 (Pike Natural Gas). LOGIC RELATIONSHIPS The Alternative Heating System was installed under the GDP Winterization subproject (WBS 1.12.05.04.01.02). The start of operation is logically tied to the completion of installation and the onsite of cold weather. Facilities covered under this subproject will be managed and maintained until D&D is initiated. SCOPE DESCRIPTION (Please quantify scope information below, e.g., list summary dimensions of trench, cap, waste volumes, building sizes, etc.) Release Sites and Facilities Assessments to be completed: None Actions to be completed: None Performance Metrics/Indicators * Changeover to natural gas by 11/30/02.			



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12. ELEMENT TASK DESCRIPTION (Continued)			
<p>Past Accomplishments</p> <p>Initiated operation of alternative heating system within DOE Orders and Regulations Changeover from fuel oil to natural gas operation</p> <p>Future Accomplishments</p> <p>Successfully operate alternative heating system within DOE Orders and Regulations. Install additional (third) boiler commencing with D&D</p> <p>Scope: the detailed Life Cycle Scope of the Subproject (FY 2003 through Completion)by WBS Level 7 element)</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 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> <p>Operate and maintain facilities related to the PORTS alternative heating system, which include:</p> <ul style="list-style-type: none"> * Boiler/Heating System (X-6002) * Fuel Tank Farm (X-6002A) * Natural Gas Pipeline (X-2232E) * Recirculating Hot Water (RHW) Distribution System (X-2230T2) <p>Tasks to be performed are as follows:</p> <ul style="list-style-type: none"> * Boiler operations * Fuel oil unloading * Fuel oil reports and sampling 			



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12. ELEMENT TASK DESCRIPTION (Continued) * Engineering support for excavation/penetration permits, electrical support, drafting and design services * RHW system valve and pipe repair (assume up to 6 RHW leak repairs per year) * RHW system technical assessment (FY03 only) This includes the cost of fuel oil only. Fuel oil will be utilized through September FY 2002, and natural gas will be utilized for the remainder of the heating system. Fuel oil will be utilized only as backup for natural gas after September FY 2002. Natural gas will be purchased by DOE and is not part of this scope. This scope also includes the following non-routine activities: * Installation of an additional boiler, fuel oil tank, and RHW pump to the alternative heat system, commencing with D&D. This includes the boiler, spare boiler parts & special tools, RHW system pumps, and boiler/tank/pump installation. SAFETY AND HEALTH WORK PERFORMANCE 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.			



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<p>REQUIREMENTS/DRIVERS</p> <p>Bechtel Jacobs Company LLC Contract DE-AC05-98OR22700, December 18, 1997 Integrated Safety Management System Description, BJC/OR-87, Revision 2, September 1999 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 Bechtel Jacobs Company Work Smart Standards Applicable DOE Orders Applicable Executive Orders</p> <p>As applicable, indicate other regulatory-related requirements. CERCLA: Y/N RCRA: Y/N DNFSB: Y/N DOE Orders: Y/N AEA: Y/N UMTRCA: Y/N State: Y/N Other: Y/N</p> <p>WASTE VOLUMES Please see attached waste performance metrics, as applicable.</p> <p>PROJECT SCHEDULE Please see attached project summary 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</p>			