



**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> 1.12.05.60.02.04		<b>5. WBS ELEMENT TITLE</b> HEU Program	
<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>
<b>12. ELEMENT TASK DESCRIPTION</b>  WBS GRAPHIC  See attached.  INTRODUCTION  LOGIC RELATIONSHIPS  Waste management characterization and final treatment/ disposal of materials in X-326 L-Cage. Interagency agreement between DOE and TVA and memorandum of agreement between DOE PORTS and NNSA Y-12 for processing of HEU material at Nuclear Fuel Services (NFS), Inc.  SCOPE DESCRIPTION  Release Sites and Facilities  Assessments to be completed: None  Actions to be completed: None  Performance Metrics/Indicators  Provide measurements for 84 shutdown cells (average 7 cells per month) and gas sampling and analysis of about 14 cells per different cells per month (158 cells total) per EMEF- HEU-110 Rev 1 by 9/30/03. Maintain realtime physical inventory of material in EU-DMSA-12 and complete physical inventory in DMSA-12 by 9/30/03.  Past and Future Accomplishments  Past Accomplishments (Prior to FY 2003)  FY2002 Accomplishments  Surveillance and maintenance of the 158 permanently shut down cells in X-326: performed buffer gas sampling/analyses on about 14 different cells per month (112cells total) and NDA measurements on an average of 7 cells per month (56 cells total). Continued interim storage of HEU materials at NFS Completed sale and customer deliveries of downblended HEU oxide, derived from trap material, at NFS. Issued RFP for processing HEU materials at NFS Issued subcontract modification for extending interim storage of HEU materials at NFS through December 2002 with extensions through December 2004 on a month-to-month basis.			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b>  HEU Processing at NFS Award subcontract for processing of PORTS HEU materials at NFS; begin sampling, analysis, bench testing and preliminary design (Phase 1) Provide contract management and technical support for HEU activities at NFS.  HEU Program Management Continue to provide nuclear criticality safety, management and technical support, authorization basis management for HEU materials in X-326 L-Cage. Continue to provide management and technical support for HEU material storage at NFS.  HEU Surveillance and Maintenance  Continue surveillance and maintenance of the 158 permanently shut down cells in X-326 and operation of EU-DMSA-12 including: operational response to automatic buffer monitoring system alarms, performance of operational checks, maintenance support for buffer monitoring system instrumentation, NDA measurement of 84 shutdown cells (average 7 cells per month), Gas sampling and analyses of about 14 different cells per month (158 shutdown cells total), Support functions as needed (chemical operations, janitorial, etc.)  FY2003 Scope  Activities include:  HEU Removal -PORTS  Award subcontracts for treatment/disposal and material handling of gunk, filter and incinerator ashes, repack (if necessary), overpack and ship. Begin treatment/disposal processes for gunk, filter and incinerator ashes at successful bidder's site. Begin disposition of remaining HEU materials (i.e. oils, acids, alumina, etc.) stored in X-326 L-Cage; complete disposition of HEU materials, except alumina.  HEU Storage at NFS Continue interim storage of HEU materials at NFS.  HEU Processing at NFS  Complete sampling, analysis, and bench testing, and preliminary design for PORTS HEU material currently stored at NFS (Phase 1). Issue subcontract modification for equipment design, procurement, installation, startup, material processing and waste disposition (Phase 2).			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b>  Provide management support for HEU material storage at NFS and treatment/disposal of HEU-RCRA materials at vendor's site and disposition of remaining HEU materials stored in the X-326 L-Cage.  HEU Surveillance and Maintenance  Continue surveillance and maintenance of the 158 permanently shut down cells in X-326 and operation of EU-DMSA-12 including: Operational response to automatic buffer monitoring system alarms, Performance of operational checks, Maintenance support for buffer monitoring system instrumentation, NDA measurement of 84 shutdown cells (average 7 cells per month), Gas sampling and analyses of about 14 different cells per month (158 shutdown cells total), Support functions as needed (chemical operations, janitorial, etc.)  FY2004 Scope  Activities include: HEU Removal - RCRA  Complete disposition of HEU alumina stored in X-326 L-Cage. Complete treatment and disposal of gunk, filter and incinerator ashes at vendor's site.  HEU Storage at NFS  Work scope same as FY 2003.  HEU Processing at NFS  Complete equipment design for highly enriched uranium hexafluoride conversion facility at NFS (Phase 2). Provide contract management and technical support for HEU activities at NFS.  HEU Program Management  Provide management and technical support for HEU material storage and treatment/disposal of HEU-RCRA materials at vendor's site and disposition of HEU alumina stored in the X-326 L-Cage.  HEU Surveillance and Maintenance			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b>  <p>Activities include: HEU Storage at NFS</p> <p>Work scope same as FY 2003.</p> <p>HEU Processing at NFS</p> <p>Complete regulatory reviews and obtain licensing/permitting for highly enriched uranium hexafluoride conversion facility at NFS (Phase 2). Provide contract management and technical support for HEU activities at NFS.</p> <p>HEU Program Management</p> <p>Provide management and technical support for HEU material storage.</p> <p>HEU Surveillance and Maintenance</p> <p>Work scope same as FY 2003.</p> <p>Outyears Scope</p> <p>HEU Storage at NFS</p> <p>Work scope same as FY 2003, until HEU processing begins.</p> <p>HEU Processing at NFS</p> <p>Complete Phase 2 work at NFS.</p> <p>HEU Program Management</p> <p>Provide management and technical support for HEU Surveillance and Maintenance. 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>HEU Surveillance and Maintenance</p> <p>Work scope same as FY 2003 until decision is made to place shutdown cells in D&amp;D program.</p> <p>Safety and Health Work Performance</p>			



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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b> <p>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>			





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<b>12. ELEMENT TASK DESCRIPTION (Continued)</b>  N/A.  <b>PROJECT SCHEDULE</b>  Please see attached project summary schedule, project detail schedule, and Milestone Status Summary Report.  <b>EXECUTION YEAR BASELINE</b>  Please see attached Budgeted Cost of Work Scheduled Plan.  <b>BASELINE BY YEAR</b>  Please see attached Baseline by Year Report. The Baseline by Year Report should be by Fiscal Year (for the project duration), sorted by Level-7 of the WBS.			