

**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 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01		5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
6. INDEX LINE NO. N/A	7. REVISION NO. AND AUTHORIZATION Rev 2		8. DATE 01/23/03
9. APPROVED CHANGES N/A			
10. SYSTEM DESIGN DESCRIPTION N/A		11. BUDGET AND REPORTING NUMBER N/A	
12. ELEMENT TASK DESCRIPTION			
<p>WBS GRAPHIC</p> <p>See attached.</p> <p>INTRODUCTION</p> <p>Routine Surveillance and Maintenance (Routine S&M) element has been established to monitor Solid Waste Management Unit (SWMU) sites prior to remediation in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) permit, and address surveillance and maintenance of DOE owned sites and facilities not captured under other programs. Routine S&M which includes General site Cleanup, which encompasses the disposal of wood pallets, collecting and crushing concrete rubble, characterization and packaging wooden cylinder chocks for off-site shipment and disposal, inspection of DOE facilities site wide, the removal and transporting of miscellaneous clean scrap metal and general site housekeeping. Off-site groundwater contamination was discovered at the Paducah Gaseous Diffusion Plant in 1988. In support of the ensuing Department of Energy (DOE) environmental restoration effort, a number of support facilities were located or built on-site to provide DOE contractors and subcontractors necessary workspace. The Routine S&M element first established as Remedial Action S&M in FY 1995. It contains all activities necessary to maintain these facilities for the support of Environmental, D&D and DMSA Projects, and to manage historically contaminated inactive sites from the time of their discovery until the initiation of remedial actions.</p> <p>Objectives of the Routine S&M element include:</p> <p>Monitor the status of Solid Waste Management Units (SWMUs) through routine inspections prior to remedial action to ensure compliance with program requirements.</p> <p>Monitor the status of Environmental, D&D and DMSA facilities through routine inspections to ensure compliance with program requirements. Maintain these facilities to retard degradation and to correct deficiencies through routine inspections and corrective maintenance</p> <p>Maintain DOE properties not addressed by other programs (e.g., the areas posted in compliance with 10 CFR 835) and perform corrective maintenance, as needed, based on the inspections.</p> <p>Maintain facilities compliant with applicable environmental regulations and prudent facility management practices.</p>			

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<p>LOGIC RELATIONSHIPS</p> <p>S&M activities until turn over for long term Stewardship WBS.</p> <p>SCOPE DESCRIPTION</p> <p>Release Sites and Facilities</p> <p style="padding-left: 40px;">Assessments to be completed-n/a</p> <p style="padding-left: 40px;">Actions to be completed-n/a</p> <p>Past and Future Accomplishments</p> <p style="padding-left: 20px;">Past Accomplishments</p> <ul style="list-style-type: none"> - Completed the installation of the Training Trailer located at the Kevil Office complex - Completed the installation of the Security Office Trailer located at the C-412 complex - Completed the construction of the pad and the relocation of the Guard Portal along Hobbs Road - Completed the replacement of Low Water Crossing over an unnamed tributary on Rice Springs Road - Completed the Pipeline Isolation to prevent the flow of contaminants from the plant site. - Completed the training and program set up for the inspection phase for the CAS/FIMS project. - Completed Phase 1 and Phase 2 inspections for a total of 43 facilities per the CAS/FIMS program requirements. - Completed the inspections for 6 bridges located on DOE properties - Completed the culvert repair at Dykes Road at Outfall 011 ditch - Completed the design and development of the RFP for repairs to West Patrol Road. - Completed collecting and characterization of miscellaneous scrap metal site wide. - Completed the characterization of the 25 Roll-off bins and the preparation of the landfill packages. - Completed the characterization of the orphan GSA's and associated landfill packages - Completed the clean up of SWMU 468. - Completed the installation and modification to Post 43A <p style="padding-left: 20px;">Future Accomplishments</p> <ul style="list-style-type: none"> - Continue all Surveillance and Maintenance activities as defined in the Life Cycle Baseline Scope. - Continue CAS/FIMS Implementation for all DOE released facilities. CAS/FIMS project is an ongoing facility inspection that each facility is inspected every fifth year. Every sixth year the entire DOE non-leased facilities are schedule to begin the re-inspection cycle. - Begin the packaging of the wooden cylinder chocks and wooden pallets for offsite shipment and disposal - Complete the repairs to West Patrol Road located at Outfall #001. - Conclude the General Site Clean up activities, which includes the packaging the wooden cylinder, chocks for off site shipment. - Prepare the wood pallets for disposal to an approved landfill. - Inspections for 6 Bridges located on DOE properties. The bridge inspection project is schedule for every two years beginning again in FY04, FY06, FY08 etc. - Sample and dispose of wood pallets into the onsite landfill and/or approved offsite disposal facility. - Transport the concrete crushate to the onsite landfill and/or approved disposal facility. - Transport the wood pallets to the onsite landfill and/or approved disposal facility. - Transport the sorted, characterized, and repackage waste from the 25 roll-off bins to the onsite landfill 		

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<p>and/or approved disposal facility.</p> <ul style="list-style-type: none"> - Complete the Confined Space Evaluation Project - Complete the sample analysis and data assessment of AOC located at outfall #011 - Complete the abandonment of 7 hand dug wells/cisterns - Complete roof repairs to six office/ support trailers facilities <p>SCOPE:</p> <p>04.02.02.01 ROUTINE S&M</p> <p>Routine inspection or surveillance is performed on Environmental, D&D and DMSA facilities to ensure that each facility remains structurally sound, in a safe condition, appropriate security is maintained, and that hazardous materials or conditions are identified and corrected. Specific activities under this element include:</p> <p>FACILITY INSPECTIONS</p> <p>Perform monthly inspections of three DOE owned outfalls (i.e., KPDES Outfalls 001, 015 and 017.) and identify and correct any concerns (e.g., obstructions, sediment buildup, degradation of the ditch walls, etc.).</p> <p>Conduct daily inspections of the C-755 Lift Station to ensure proper operation.</p> <p>Perform inspections of the facilities and identify health, safety, and environmental concerns. Conduct inspections of each of the SWMUs per the RAIMS list until defined remedial actions are implemented. Identify any concerns (e.g., needed corrective actions; health, safety, or environmental concerns; changes in appearance or features, etc.).</p> <p>Perform routine health physics surveys of facilities and provide support to personnel for facility access, including access to contamination areas for mowing or other maintenance.</p> <p>SCHEDULED MAINTENANCE</p> <p>10CFR835 radiological posted sites located outside the plant security area will be inspected monthly, and presently seven are surveyed annually. Corrective maintenance will be performed as needed based on the inspections. In addition, the areas will be mowed and trimmed.</p> <p>These 10CFR835 radiological sites are as follows:</p> <ol style="list-style-type: none"> 1) North/South Diversion Ditch from the North plant security fence to HWY KY 358 (Ogden Landing Road). This ditch is posted on both sides as a “Contamination Area”. 2) North/South Diversion Ditch North of the S&T Landfill has three IC areas posted as a “Contamination Area”. 3) Six areas at the S&T have been posted as a “Underground Radioactive Material Area”. 4) Ditch 11 from the east security fence to Little Bayou Creek is posted on both sides as a “Contamination Area”. 5) Little Bayou Creek running North from Ditch 11 has two areas of IC postings on both sides at McCaw Road and HWY KY 358 (Ogden Landing Road) as a “Contamination Area. Also included in this section is SWMU 108, which is a crossing that has two contaminated culverts. 6) SWMU 121 (Old bridge south of five points where rubble was used as fill is posted as “Fixed Contamination Area”. 7) Creek leaving the west side of C-616 Lagoon has a portion posted as a “Contamination Area”. 8) KPDES Outfall 015 has a section outside of west perimeter fence has a section posted as a 		

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<p>“Contamination Area”.</p> <p>9) Old railroad bed and ditch coming from west side of Scrapyards outside the perimeter fence has been posted as a “Contamination Area”.</p> <p>10) Outfall 002 (SWMU 102) which has buried rubble is posted as a “Fixed Contamination Area”.</p> <p>11) Small area on the south side of McCaw Road and close to Little Bayou Creek is posted as a Contamination Area”.</p> <p>Mowing Schedule: (De-leased mowing activities begin in FY10)</p> <p>Group #1</p> <ul style="list-style-type: none"> - Mow and trim C-755 area. - Mow and trim C-400 area. <p>Group 2</p> <ul style="list-style-type: none"> - Mow and trim C-730 area. - Mow and trim C-752. - Mow and trim off-site monitoring wells and access roads. <p>Group #3</p> <ul style="list-style-type: none"> - Mow and trim C-746-F Landfill Zone A-1. <p>Group 4</p> <ul style="list-style-type: none"> - Mow and trim silt fence Zone A-3. - Mow and trim the North/South ditch Zone B-2. <p>Group 5</p> <ul style="list-style-type: none"> - Mow and trim monitoring wells inside fence. - Mow and trim sampling location along Little Bayou Creek. - Mow and trim along Big Bayou Creek. - Mow and trim DOE property boundary markers. - Mow and trim C-410 - Mow and trim C-340 - Mow and trim C-342 <p>Group #6</p> <ul style="list-style-type: none"> - Mow C-746-K landfill Zone F-9. - Mow the institution Control Areas. - Mow Paducah Plumes. - Mow and trim C-404 Landfill Zone A-2. - Mow and trim Southeast General Area Zone C (starting in FY10) - Mow and trim C-611-M Zone in KOW (starting in FY10) - Mow and trim C-611-N Zone in KOW (starting in FY10) - Mow and trim Northwest General Areas Section 2 Zone A (starting in FY10) - Mow and trim Northeast General Areas Section 1 Zone B (starting in FY10) - Mow and trim Northeast General Areas Section 2 Zone B (starting in FY10) - Mow and trim Southwest General Areas Sections 1 & 3 Zone D (starting in FY10) 		

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<ul style="list-style-type: none"> - Mow and trim Curlee Road Zone F (starting in FY10) - Mow and trim Northeast General Area Section 3 Zone B (starting in FY10) - Mow and trim Southwest General area Section 2 Zone D. - Mow and trim areas east of C-611 <p>Group #7</p> <ul style="list-style-type: none"> - Mow and trim C-416 <p>Group 8</p> <ul style="list-style-type: none"> - Mow and trim C-743 <p>Group #9</p> <ul style="list-style-type: none"> - Mow and weed eat SWMU 199 and SWMU 138. <p>Group 10</p> <ul style="list-style-type: none"> - Mow and trim C-103 DOE Building Area (starting in FY10) - Paint and re-label well casings and paint bollards as needed. Inspect 10CFR835 posted areas <p>Deleased mowing activities begin in FY10</p> <p>Corrective Maintenance</p> <p>Repairs to roads, grounds including brush and tree removal and facilities repairs that are needed. Sampling associated with Corrective Maintenance activities including soil samplings for excavations and penetrations.</p> <p>Engineering Support for Corrective Maintenance activities that include drawings, generation of scope of work, AHA's, procedures and supervision for maintenance repairs and to DOE facilities.</p> <p>Conduct cleaning of the three DOE outfall flumes (Outfall 001, 015, and 017),C-755 lift station and other locations.</p> <p>Conduct rodent and small mammal trapping of the three DOE outfall flumes (Outfall 001, 015, and 017), and C-755 lift station as needed.</p> <p>Complete the sample analysis and data assessment of the AOC located at outfall #011.</p> <p>Complete office trailers roof repairs by applying a polyurethane foam (PUF) roof system on trailers C-743-T1, C-743-T7, C-743-T17, C-755-T04, C-755-T09, and C-755-T22 at several locations at the Paducah Gaseous Diffusion Plant.</p> <p>The State of Kentucky has requested that seven hand dug wells (cisterns) be filled in and capped off at surface. The cisterns have been covered using 4" by 4" timbers as a temporary safety fix. However DOE has requested that the cisterns be filled in and capped to prevent persons and or animals from falling in them. The cisterns will be filled with gravel to a depth of 10 feet below surface. Cistern depth is estimated to range from 30 to 60 feet deep. Granular bentonite will be placed in two-foot intervals and hydrated for the next 5</p>		

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<p>feet Clay fill will be placed to surface grade (remaining 5 feet). All work will be completed under the supervision of a certified well driller.</p> <p>Pump water from monitor well sumps as needed.</p> <p>Complete the repairs for the West Patrol Road located at Outfall #001. Package and transport the contaminated material from the West Patrol Road Project to an approved offsite disposal, if required.</p> <p>General Site Cleanup and Site Housekeeping</p> <p>Waste that was characterized and prepared for offsite disposal will be shipped to the appropriate disposal facility.</p> <p>Continue preparation for the disposal of wood pallets and miscellaneous wood material identified during the general site cleans up project into the onsite landfill/offsite disposal facilities. An off site waste disposal package will be prepared and approved by the designated disposal site.</p> <p>The concrete crusher purchased for the Rubble Pile work in FY 01 continues to be used to size reduce miscellaneous concrete around the PGDP site, including but not limited to concrete piers from the cylinder yards, concrete culverts, and other debris piles.</p> <p>Cylinder Yard Wooden Chocks – Characterization and Packaging for Off Site Shipment.</p> <p>Some characterization has been performed on these chocks. The data shows the chocks to contain low level radiological contamination. This task will determine if additional characterization is necessary based on the source of the chocks and the radiological levels. If necessary, a sampling plan will be developed, and additional characterization conducted in accordance with that plan. An off site waste disposal package will be prepared and approved by the designated disposal site</p> <p>CAS/FIMS Implementation</p> <p>In order to support DOE Headquarters directive requiring the tracking of facility status and maintenance activities, Condition Assessment Surveys (CAS) will be performed on all DOE non-leased facilities. An estimated 50 facilities will be inspected each year to maintain the 5 year inspection cycle.</p> <p>Surveys will be conducted of these facilities to include deficiency findings, recommendations, cost estimates, and photographs. The surveys include, as applicable, structural integrity evaluation, roof inspection, and utility evaluation. The CAS database will be updated and maintained.</p> <p>For the Facility Information Management System, an annual facilities update form (survey) will be developed and executed. Information received from the survey will be entered into the FIMS database. The FIMS database also includes annual reporting of required maintenance, actual maintenance, and deferred maintenance costs.</p> <p>Continue training for the subcontract personnel performing the work, as well as attendance at committee meetings and workshops is also included.</p> <p>Technical M&I</p> <p>Technical management and integration activities include the project management and support necessary to</p>		

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<p>ensure that all activities in the remaining WBS elements are completed. It includes those activities from management and financial support groups necessary to ensure completion of Routine S&M activities in compliance with regulations, DOE orders, or other requirements.</p> <p>Confined Space Evaluation</p> <p>Inventory of all confined spaces, as required by 29 CFR 1910.146, that exists on the Bechtel Jacobs managed Paducah site. It includes the following:</p> <ul style="list-style-type: none"> ? Characteristics of the space(location, type, ect.) ? Classification of space (non-permit required or permit required) ? Evaluation of potential hazards ? Assignment of a unique identifier ? Digital photograph of the space ? Placement of a warning sign and unique identifier at the location of the space ? Inclusion in an internet based database for easy retrieval of unique space information by potential entrants <p>PROJECT MANAGEMENT</p> <p>Miscellaneous materials and travel are included in the WBS element.</p> <p>Personnel necessary to provide the appropriate level oversight are included in this WBS element. A project manager, deputy project manager, lead engineering , secretarial support, and project control engineer will work to:</p> <ul style="list-style-type: none"> - Ensure completion of all activities under Routine S&M in compliance with the principals of Integrated Safety Management. - Maintain contact and open communications with the appropriate DOE Project Manager(s) on Routine S&M activities. - Participate in technical information meetings to provide project status summaries to DOE. - Manage the subcontracts and work authorizations issued to complete the work under Routine S&M. - Respond and supply information to DOE for Lessons Learned, surveillance and audits, Site-Specific Advisory Board support, and other DOE reporting mechanisms. <p>Safety and Health Work Performance</p> <p>Introduction to the section</p> <p>The Bechtel Jacobs Company LLC has as a core value that the safety and health of every worker and the public at large, and our environment, as 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</p>		

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC	2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.02.02.01	5. WBS ELEMENT TITLE Routine Surveillance and Maintenance	
<p>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> <p>Before a subproject begins, several activities must be completed that demonstrate that all involved in the project have completed rigorous health and safety reviews and that all potential hazards of doing the work have been identified. Routine activities in RA are conducted in accordance with standard operating procedures, activity hazard analyses, and Integrated Safety Management plans. Non-routine work will require a readiness assessment as necessary to ensure complete health, safety, and environmental reviews prior to work start. This assessment is conducted by people, experienced in similar kinds of work, with the right to examine all aspects of a project about to commence, and require that the project team provide documented evidence that any applicable requirements of the job have been met.</p> <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 1, April 1999 DOE Order 5480.23 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"</p> <p>As applicable, indicate other regulatory-related requirements. CERCLA: Y RCRA: Y DNFSB: N DOE Orders: Y AEA: N UMTRCA: N State: Y Other: Paducah FFA dated February 13, 1998 Paducah RCRA/HSWA Permit No. KY8-890-008-982 Paducah Site Management Plan dated November, 1998 Toxic Substances Control Act (TSCA) Federal Facilities Compliance Agreement (FFCA) Attachment 1 Chapter V, "Decommissioning of Radioactively Contaminated Facilities," of DOE Order 5280.2A 10CFR835</p> <p>WASTE VOLUMES</p> <p>Please see attached waste performance metrics, as applicable.</p> <p>PROJECT SCHEDULE</p> <p>Please see attached project summary schedule, and Milestone Status Summary Report.</p> <p>EXECUTION YEAR BASELINE</p> <p>Please see attached Budgeted Cost of Work Scheduled Plan.</p> <p>BASELINE BY YEAR</p> <p>Please see attached Baseline by Year Report.</p>		

