

**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 1.12.04.04.01.03		5. WBS ELEMENT TITLE C-340 D&D													
6. INDEX LINE NO. N/A	7. REVISION NO. AND AUTHORIZATION Rev. 1		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>The purpose of the D&D project is to plan and implement the decontamination and/or demolition of the C-340 structures. Specific activities will be undertaken to stabilize the structures; prepare regulatory documentation under the CERCLA Process; perform infrastructure (process equipment and material removal); perform structure demolition and remediation of any contaminated underlying soils, consistent with its anticipated future use and public input.</p> <p>In the Site Evaluation Phase, activities will be focused on preparing the C-340 Facility for Decontamination and Decommissioning Activities. Specific actions will include preparation of needed facilities; hiring and training work force; preparing CERCLA Decision Documents supporting the removal action to remove process equipment and infrastructure; and minor building maintenance and upkeep in preparation of the D&D work.</p> <p>In the Infrastructure Phase, stored materials and equipment, process piping, heating, ventilation, air conditioning systems and equipment, and utilities will be removed and disposed, leaving essentially the building structure. During this phase, the CERCLA Decision Documents supporting the Facility Structure D&D will be prepared.</p> <p>In the Facility Structure D&D, the actual building will be demolished to the ground surface. Basement or other holes will be filled in to prevent water accumulation and to eliminate potential for personnel or animals to fall into them. The environmental media impacted by the presence of the building will be evaluated as a part of the GDP D&D program.</p> <p>Removal, decontamination, and transfer of ownership of surplus equipment for reuse or recycle will also be included in this project. This activity is also a subproject of the C-340 D&D Project.</p> <p>Supporting these individual phases are subprojects Technical Management and Integration; Newly Generated Waste Management; and Support of DOE Primes, which cross cut the individual activities.</p> <p>The Building C-340 Plant Complex WBS Element Structure is as follows:</p> <table border="0"> <tr> <td>WBS 1.12.04.04.01.03.01</td> <td>C-340 Management & Integration</td> </tr> <tr> <td>WBS 1.12.04.04.01.03.02</td> <td>C-340 Site Evaluation</td> </tr> <tr> <td>WBS 1.12.04.04.01.03.03</td> <td>C-340 Infrastructure D&D (Non-time critical removal action)</td> </tr> <tr> <td>WBS 1.12.04.04.01.03.04</td> <td>C-340 Facility Structure D&D (Removal action)</td> </tr> <tr> <td>WBS 1.12.04.04.01.03.06</td> <td>C-340 Newly Generated Waste</td> </tr> <tr> <td>WBS 1.12.04.04.01.03.07</td> <td>C-340 DOE Prime Support</td> </tr> </table>				WBS 1.12.04.04.01.03.01	C-340 Management & Integration	WBS 1.12.04.04.01.03.02	C-340 Site Evaluation	WBS 1.12.04.04.01.03.03	C-340 Infrastructure D&D (Non-time critical removal action)	WBS 1.12.04.04.01.03.04	C-340 Facility Structure D&D (Removal action)	WBS 1.12.04.04.01.03.06	C-340 Newly Generated Waste	WBS 1.12.04.04.01.03.07	C-340 DOE Prime Support
WBS 1.12.04.04.01.03.01	C-340 Management & Integration														
WBS 1.12.04.04.01.03.02	C-340 Site Evaluation														
WBS 1.12.04.04.01.03.03	C-340 Infrastructure D&D (Non-time critical removal action)														
WBS 1.12.04.04.01.03.04	C-340 Facility Structure D&D (Removal action)														
WBS 1.12.04.04.01.03.06	C-340 Newly Generated Waste														
WBS 1.12.04.04.01.03.07	C-340 DOE Prime Support														

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 1.12.04.04.01.03	5. WBS ELEMENT TITLE C-340 D&D
--	--

WBS 1.12.04.04.01.03.08	C-340 Capital Equipment
WBS 1.12.04.04.01.03.09	C-340 Removal Action Technical Support
WBS 1.12.04.04.01.03.10	C-340 Reuse and/or Recycle of Equipment

LOGIC RELATIONSHIP

Prior to any activity inside the building, a Facility Safety Authorization Basis, SAB, must be in place. A Facility Description Document (FDD) and Hazards Assessment Document (HAD) is under development to evaluate the type of authorization basis required for the facility. If the facility is determined to be a nuclear facility, additional SAB documentation will be developed. During the Site Evaluation phase, CERCLA decision documentation (EE/CA, Action Memorandum) will be completed prior to implementing the Infrastructure removal. Following the Site Evaluation, the Infrastructure D&D Phase will begin. During this Phase, the Removal Action Work Plan will be finalized, and all staged materials and process equipment, utilities, and ancillary equipment will be removed, packaged, and dispositioned according to the CERCLA Documentation. Additionally, during this phase CERCLA decision documentation for the C-340 Removal Action (Facility Structure) which includes structure demolition to grade, and disposition of debris generated from demolition. The soils and environmental media impacted by the facility will be addressed following Facility Structure demolition by the GDP D&D program.

RELEASE SITES

Assessments to be completed

SWMU	Release Site ID	Description
477	3094	C-340 Metals Plant
514		C-340 Reject Magnesium Fluoride Storage Silo
515		C-340 "Dirty" Dust Collection System
516		C-340 Derby Preparation Area Sludge Collection System
521		C-340 Saw System Degreaser
522		C-340 Work Pit Located at Ground Floor Level
523		C-340 Metals Plant Pit Ground Floor at F-6 to F-11
524		C-340 Pickling Sump
529		C-340 Powder Plant Sump at Ground Floor Level

Actions to be completed

SWMU	Release Site ID	Description
477	3094	C-340 Metals Plant
514		C-340 Reject Magnesium Fluoride Storage Silo
515		C-340 "Dirty" Dust Collection System
516		C-340 Derby Preparation Area Sludge Collection System
521		C-340 Saw System Degreaser
522		C-340 Work Pit Located at Ground Floor Level
523		C-340 Metals Plant Pit Ground Floor at F-6 to F-11
524		C-340 Pickling Sump
529		C-340 Powder Plant Sump at Ground Floor Level

The C-340 Complex has a combined structure footprint of 65,128 SF, made up of the following buildings; C-340-A Powder Building, C-340-B Metals Building, C-340-C Slag Building, C-340-D Magnesium Storage Building and C-340-E Emergency Power for Critical Alarms.

Past and Future Accomplishments

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NUMBER
Environmental Management/Bechtel Jacobs Company LLC	10/01/02	DE-AC05-98OR22700
4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE	
1.12.04.04.01.03	C-340 D&D	
<p>Past Accomplishments None</p>		
<p>Future Accomplishments</p> <ul style="list-style-type: none"> ? Initiate and complete Site Evaluation and CERCLA Documentation. ? Initiate and Complete Infrastructure D&D. ? Evaluate existing power distribution system to determine if adequate to support D&D operations. Initiate upgrades as required. ? Acquire and install waste processing equipment. ? Design and construct laydown /receiving area. ? Upgrade Ingress/Egress Areas to C-340 Complex. ? Crane and Elevator Refurbishment. ? Packaging and shipment for disposition of waste generated during Infrastructure D&D. ? Initiate and Complete Decision Document process for facility structure D&D. ? Initiate and complete Facility Structure Demolition. 		
<p>SCOPE</p>		
<p>1.12.04.04.01.03.01 TECHNICAL MANAGEMENT AND INTEGRATION</p>		
<p>Technical Management and Integration activities include the technical, subcontract, and project management necessary to ensure that all activities in the WBS elements are completed on schedule, within budget, and without safety or environmental incident. Technical Management and Integration includes the Project Management oversight and Project Controls personnel who will perform project management, subcontractor oversight, ES&H support, and project scheduling and estimating. Other BJC/M&I support activities will be captured in individual WBS elements.</p>		
<p>The Life Cycle Baseline and Baseline Management activities will be performed on a routine basis.</p>		
<p>Baseline Change Proposals – Prepare BCP documentation to make necessary modifications to the baseline when scope, schedule, or cost changes are determined necessary.</p>		
<p>Specific activities include:</p>		
<ul style="list-style-type: none"> - Ensure completion of all activities within the subproject is in compliance with the principals of Integrated Safety Management. - Maintain contact and open communications with the appropriate DOE Project Manager on the subproject activities. - Participate in biweekly technical information and monthly Project Status Review meetings to provide the DOE with project status summaries. - Manage the subcontracts and work authorizations issued to complete the work under the subproject. - Respond and supply information to DOE for Lessons Learned, surveillance and audits, Site-Specific Advisory Board support, and other DOE reporting mechanisms. - Maintain the monthly subproject estimates and estimates at completion. 		
<p>1.12.04.04.01.03.02 SITE EVALUATION</p>		
<p>Typical tasks include; Building surveys and records search, inventory facility contents, preliminary characterization, validate systems and energy isolation points, identify systems posing an imminent risk to the workers and perform corrective maintenance as required, relocate and stage stored equipment and material, debris removal, gross vacuum accessible surfaces and prepare and submit the Site Evaluation Report. Paralleling these activities the subcontractor prepares and submits for approval the Engineering Evaluation and Cost</p>		

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NUMBER
Environmental Management/Bechtel Jacobs Company LLC	10/01/02	DE-AC05-98OR22700
4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE	
1.12.04.04.01.03	C-340 D&D	
Analysis (EE/CA) and Action Memorandum for the Infrastructure D&D phase..		
1.12.04.04.01.03.03 INFRASTRUCTURE D&D		
<p>During the Infrastructure D&D Phase, all process related and utility equipment and staged materials will be removed, staged, packaged for disposal, and shipped offsite for treatment or disposal in accordance with the EE/CA and Removal Action Work Plan. Typical tasks include; drain, flush and remove process and infrastructure systems, ancillary hardware (interior and exterior to the structure). Remove non-load-bearing walls, perform preliminary characterization, and decontaminate areas above release criteria, conduct final characterization.</p>		
1.12.04.04.01.03.04 FACILITY STRUCTURE D&D		
<p>This element includes activities necessary to demolish the structure remaining after completion of the removal of process and chemical equipment is completed in the previous (Infrastructure D&D) Phase. Buildings will be removed to the slabs and any holes, basement, etc. will be backfilled. This phase will include development of EE/CA, AM, and RAWP supporting the Facility Structure D&D; implementation of the Structure D&D consistent with the CERCLA Documentation; and waste disposition.</p>		
1.12.04.04.01.03.05 ENVIRONMENTAL MEDIA		
Environmental Media will be addressed by the GDP D&D program.		
1.12.04.04.01.03.06 NEWLY GENERATED WASTE		
<p>Activities in this WBS will involve in waste processing and waste disposal. These activities include establishing an area designated for processing and packaging of wastes generated during the Infrastructure removal; obtaining necessary materials and equipment for waste packaging; coordinating with onsite waste management subcontractor to place any hazardous or TSCA wastes in appropriate storage; and packaging and transfer of wastes for treatment and disposal.</p>		
1.12.04.04.01.03.07 DOE PRIME		
<p>Disposal cost for waste generated by this project will be developed and then transferred to the appropriate DOE Prime WBS.</p>		
1.12.04.04.01.03.08 CAPITAL EQUIPMENT		
<p>Obtaining waste handling and waste processing equipment, and other necessary capital (establishing laydown areas, large pieces of equipment, etc) necessary to perform the D&D project. Equipment previously utilized for the C-410 D&D Project will be used to the extent possible.</p>		
1.12.04.04.01.04.09 REMOVAL ACTION TECHNICAL SUPPORT		
<p>This element includes activities required to plan and initiate the Infrastructure D&D (process and chemical equipment) removal from the C-340 Complex. This activity will include preparation of the Removal Action Work Plan and submittal to the regulatory agencies; coordination of BJC Field Staff and Self Performing PACE workers and supervision, and integration of field activities with support subcontractors including but not limited to Davis Bacon craft and Supervision; Field Engineering; Radiological Control Support; Waste Operations Subcontractor; and Nuclear Criticality Support Subcontractor, and management of generated wastes.</p>		
Updating training requirements for work force, including supervision and field staff, will be performed. Provide		

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 1.12.04.04.01.03	5. WBS ELEMENT TITLE C-340 D&D	
<p>and equip office space for additional engineering resources necessary to accomplish equipment design and procurement. Manage the Authorization Basis for the C-340 D&D project.</p> <p>1.12.04.04.01.03.10 REUSE AND/OR RECYCLE OF EQUIPMENT</p> <p>This element includes the activities necessary to support disposition of equipment or materials from the C-340 Complex through reuse or recycle. Scope will include necessary activities to identify material or equipment with potential for successful recycle or reuse; supporting necessary contractual activities for sale and or transfer of ownership; planning, designing, scheduling, and executing the removal of the equipment from the Complex; preparation for release and shipment of equipment, and packaging and shipment of materials or equipment consistent with reuse agreements.</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 As applicable, indicate other regulatory-related requirements. CERCLA: Y RCRA: N DNFSB: N DOE Orders: Y AEA: Y UMTRCA: N State: N Other: N</p> <p>WASTE VOLUMES</p> <p>Please see attached waste performance metrics, as applicable The waste quantities supporting the method of accomplishment and basis of estimate are consistent with data reported on the Waste Performance Metrics Form.</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 the attached Baseline by Year Report.</p>		