

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Oak Ridge Reservation**

Project **OR-821 / Offsite Projects - Def.**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0162**

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## General Project Information

### Project Description Narratives

#### Purpose, Scope, and Technical Approach:

This PBS covers the activities at locations off of the Oak Ridge Reservation (ORR) that were contaminated due to activities on the ORR. Atomic City and Auto Parts - TDEC will administer the contracts to perform a removal action, DOE will reimburse them for these efforts up to a ceiling of \$8M over a three-year period beginning in FY 1999. The removal actions are assumed to involve removal of soil (8,920 cy), vegetation (415 cy), and debris (2,500 cy) plus personal protective equipment (25 cy). The removal action will consist of excavating top 12-inches and replacing it with clean fill and covering it with a vegetative layer. TDEC or its subcontractor(s) will conduct surveillance and maintenance activities (weekly inspections) when TDEC or its subcontractor(s) have a site presence. These activities will be conducted to verify the integrity of the security fence, and to verify that investigative derived waste containers and labeling are intact, until final CERCLA activities are completed. No groundwater treatment will be required. After completion of the removal action, the RI/FS will be revised to address current site conditions. Following regulatory approval, the RI/FS report will be issued for public review by TDEC. Support will be supplied to TDEC during the public comment period and the ROD will be prepared by TDEC. No Bechtel Jacobs Company LLC field support is included for the TDEC early removal action.

TDEC will provide quarterly to DOE invoices of their expenses incurred over that specific period of time for reimbursement from DOE for execution of the early removal action.

David Witherspoon, Inc. 901 Site - The RI/FS for the David Witherspoon, Inc. 901 Site, Knoxville, Tennessee Volume 1 DO/OR/02-1503/V1&D1 dated October 1996 provided information for a preliminary risk assessment for the subject site in Knoxville, Tennessee. The pathways of exposure include (1) external exposure to radiation; (2) inhalation of radon and particulates; (3) ingestion of soil, groundwater, and sediment; and (4) dermal contact with chemicals in soil, groundwater, and sediment. The chemicals of concern include radionuclides, metals, semi-volatiles, PCBs, and dioxins/furans.

Within the FS, a range of remedial action alternatives was developed to potentially meet the remedial action objectives. The anticipated remedial action (RA) alternative includes the following media and remedial activities:

- Approximately (130 cy) steel materials from the Main Building and Magnet House will be disposed of in a C&D Landfill located on the Oak Ridge Reservation.
- Contaminated building debris (15,600 cy) will be disposed of as debris material in the EMWMF.
- Surface debris (20,400 cy) will be treated and disposed of as radioactive waste (or mixed waste) in the proposed EMWMF.
- A total of 193,500 cy of contaminated soil will be excavated from all three properties (DWI 901, CSX, Tennessee Asphalt). Of this 12,000 cy requires treatment using Low Temperature Thermal Desorption (LTTD) and chemical bonding, and additional 43,600 cy of soil will require chemical bonding only, to meet RCRA LDRs.
- Groundwater is discharged to a POTW after on-site pre-treatment is implemented.

This RA alternative includes the excavation and disposal of all contaminated soil, debris, and sediment. These contaminated materials will be characterized, packaged, and transported to the proposed EMWMF. It is assumed that the proposed cell will be permitted to accept Toxic Substances

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Control Act, Resource Conservation and Recovery Act of 1976, and low-level waste. The present risk at the DWI 901 Site will be eliminated because the materials creating risk will be removed. Additional surface water and groundwater contamination will cease upon removal of the contaminated materials. This alternative is designed for a future residential land use scenario.

Standing vegetation is assumed contaminated. It includes trees and brush covering approximately 50% of the site. These materials will be harvested and disposed of with the contaminated soil. Clearing activities will occur before, during and after removal of surface debris, depending on the accessibility of these materials.

Management and disposal of decontamination water, PPE and uncontaminated surface debris that will be generated during this removal action will be handled as follows. Decontamination water will be characterized according to applicable waste acceptance criteria, and pretreated and discharged to a POTW. PPE will be packaged on site and transported to an appropriate ORR facility using process knowledge and radiological screening for characterization.

David Witherspoon Inc. 1630 Site - The RI/FS supports the selection of remedial actions for the DWI 1630 Site in Knoxville, Tennessee. The pathways of exposure include (1) direct gamma irradiation from contaminated soil; (2) direct ingestion of contaminated soils (surface soil, subsurface soil, sediment); (3) ingestion of contaminated surface water/groundwater; (4) dermal contact with contaminated soil, subsurface soil, sediment); (5) ingestion of contaminated groundwater; and (6) dermal contact with contaminated soil, sediment, equipment. The chemicals of concern include, but are not limited to, heavy metals, PCBs, dioxins/furans and radionuclides.

The media at the DWI 1630 Site, which will potentially require remedial action, are the landfill cap, surface and sub-surface soils, "hot spots", groundwater, contaminated equipment and debris.

The anticipated alternative chosen for the remedial action will be comprised of the following sub-elements. Upgrading the existing landfill via constructing a soil cap on the existing landfill. Regrade the landfill area to obtain positive drainage, prevent run-on, and prevent ponding. To further ensure the integrity of the cap, the alternative will require the removal of heavy equipment presently on top of the landfill cap. Non-contaminated equipment or debris will be consolidated in one area of the site during remediation to facilitate site cleanup, and will remain after remediation has been completed.

Contaminated Debris - Debris located at DWI 1630 consists of scrap/surplus equipment (tanks, etc.), other scrap metal, and soil type debris. Debris identified as RCRA hazardous will be treated using a chemical bonding process to the extent that RCRA hazardous wastes can meet the land disposal restrictions. All contaminated scrap metal and equipment debris will undergo size reduction and compaction as appropriate using a shear/baler. Soil type debris will be treated with a chemical bonding process, and will not require Low Temperature Thermal Disorption because mercury concentrations did not exceed TCLP levels for debris. Radiologically contaminated equipment will be removed from the site and transported to an appropriate disposal facility. Clean debris would be managed only to the extent that it would be segregated and moved to a central location, out of the way of other remedial activities. There are no other actions taken for this media (recycling, disposal, etc.).

Contaminated Soil - Surface soil and subsurface soil will be excavated and disposed as rad/PCB mixed waste. A portion of excavated soil is assumed to be RCRA hazardous waste. Vegetation in areas with contaminated soil or debris is assumed to be contaminated and will be cleared prior to soil

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## **Project Description Narratives**

excavation. The contaminated soils will be excavated and treated to meet land disposal restrictions (LDRs) for mercury, cadmium, lead, and chromium in accordance with RCRA. Soil treatment for mercury will be at an off-site location. Treatment methods for soils will involve a combination of one or more of the following: Low Temperature Thermal Disorption (LTTD) to remove mercury and other volatiles from soils, and a chemical bonding treatment to convert RCRA metals within wastes to a non-leachable form, and be compliant with RCRA LDRs. The LTTD plant to treat mercury-contaminated soil is assumed to be constructed for the David Witherspoon Inc. 901 Site Project; capital costs for this plant are not included in the DWI 1630 WBS. Treatment residuals will undergo additional treatment to meet LDRs.

Additional contamination of surface water and groundwater should cease with the removal of contaminated soils and equipment. No groundwater actions are required; use restrictions for on-site groundwater are assumed. Surface water monitoring and groundwater monitoring would be used for a defined time period until contaminant levels reaches acceptable levels.

It is assumed that soil-like debris (22,600 cy) will be treated for contaminants and disposed of as mixed waste in the proposed EMWMF. The contaminated soil (143,000 cy) will be disposed as mixed rad/PCB in the proposed EMWMF (including vegetation). Of this volume, 3,000 cy will require treatment (LTTD and chemical bonding) to meet LDRs, and 84,800 cy will require treatment (chemical bonding only) to meet LDRs.

Jake Joyner Property - Activities anticipated include the following: removal and disposal of the radiologically contaminated and asbestos containing equipment and materials and the generation of Post Removal Action Report. The radiological items exceed the release criteria as specified in DOE Order 5400.5 (Radiation Protection of the Public) as supplemented by U.S. Nuclear Regulatory Commission (NRC) Regulatory Guide 1.86 (Termination of Radioactive Materials License). In addition, all asbestos material and soil hot spots (exhibiting radiological contamination levels above background) will be removed from the site and disposed of as part of this activity. Tennessee Department of Environment and Conservation (TDEC) and its subcontractor(s) will address the chemicals that were discovered and identified on the site. No polychlorinated biphenyls (PCBs) have been identified at this time, but if encountered during the removal activities, nonradiologically contaminated items will be managed by TDEC and its subcontractor(s) and radiologically contaminated by DOE.

Site Evaluations - The Bechtel Jacobs Company LLC effort at this time is unknown. However based on historical information and for planning purposes, it will involve performing project management activities in support of a field investigative team. This field investigative team's task will be to characterize and identify the degree of radiological and possibly hazardous materials contamination that is present at a site that is located off the DOE Oak Ridge Reservation.

The technical approach and strategy will be determined on an as needed basis. It is anticipated that field activities will include but not limited to visual inspections, radiological surveys, field screening such as PCBs, limited environmental media sampling (soil, sediment, surface water, etc.). The results of these field activities will be tabulated in a report along with future action recommendations. Community Relation's support will be provided in association with public meetings.

Project Drivers:

CERCLA: The Off-site Remediation Projects are typically performed in accordance with the Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA) process.

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## Project Description Narratives

RCRA: The Resource Conservation and Recovery Act (RCRA) is a statutory driver for the Off-Site Remediation Projects.

State: The Off-site Remediation Projects are driven by Consent Orders between TDEC and the U.S. Department of Energy. The project specific consent orders are as follows:

Atomic City Auto Parts Site - TDEC Consent Order Case No. 88-3434, as well as Memorandum of Understanding that TDEC and DOE signed September 1998.

David Witherspoon Inc. 901 Site - TDEC Consent Order Case No. 90-3443 (Witherspoon Recycling) and Memorandum of Agreement associated with cases 90-3443, 90-3442, and 90-3444.

David Witherspoon Inc. 1630 Site - TDEC Consent Order Case No. 90-3442 (Screen Arts Site) and Case No. 90-3444 (Witherspoon Landfill, as well as, Memorandum of Agreement associated with cases 90-3442, 903443, and 9-3444).

Jake Joyner Site - TDEC Consent Order Case No. 97-0104.

### Project Status in FY 2006:

Atomic City Auto Parts Site - This entire project will be complete with the generation of the Record of Decision in FY 2003. The RI/FS for Atomic City Auto Parts Site, Oak Ridge, Tennessee Volume 1 DOE/OR/02-1493/V1&D2 dated November 1997 supports a removal action that should be complete in FY-2001 to minimize risks to the public and the environment. TDEC and its subcontractor(s) are conducting a removal action that should result in cleaning up the site. The RI/FS will be revised to reflect the in situ conditions enabling TDEC to finalize the ROD.

David Witherspoon Inc. 901 Site - This entire project is currently scheduled to be complete with the generation and approval of the Remedial Action Report by TDEC in FY 2005. Activities included are RI/FS, ROD, RDWP, RDR/RAWP, Remedial Action, RAR, LTDD Infrastructure, and Surveillance and Maintenance.

David Witherspoon Inc. 1630 Site - This entire project is currently scheduled to be complete with the generation and approval of the Remedial Action Report by TDEC in FY 2005. Activities included are RI/FS, ROD, RDWP, RDR/RAWP, Remedial Action, RAR, and Surveillance and Maintenance.

Jake Joyner Site - This entire project is currently scheduled to be complete with the removal of materials, the generation and approval of the Post Removal Action Report in FY 2000.

Offsite Program Site Evaluation - Perform document review, site visits, and inspections associated with new and future offsite properties as directed by Tennessee Department of Environment and Conservation.

### Post-2006 Project Scope:

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No Post-2006 Scope planned within the Off-site Remediation Projects Program, except the Offsite Program Site Evaluation subproject. All post RA monitoring activities including the groundwater monitoring, treatment, sampling and analysis activities for the DWI 901 and DWI 1630 sites are planned to be picked up by the UEFPSC Surveillance and Maintenance activities in PBS OR-241 Y-12 Surveillance and Maintenance.

Offsite Program Site Evaluation - Perform document review, site visits, and inspections associated with new and future offsite properties as directed by Tennessee Department of Environment and Conservation.

### Project End State

Since the Department of Energy does not own these properties, the end-use/end-state evaluation process is not truly appropriate for these off-site remediation projects. The clean-up goals developed in the RI/FS Documents for the two DWI sites were based on three different scenarios: residential, industrial, and recreational. The Life Cycle Baseline assumed the residential scenario based on the most conservative cleanup level. The actual cleanup levels will not be known until the state of Tennessee prepares the Records of Decision for these sites.

The Atomic City Auto Parts site is currently undergoing a removal action conducted by TDEC-DSF. Confirmatory sampling will be required to verify the removal action resulted in acceptable site conditions as demonstrated by the baseline risk assessment.

After the removal action of radiologically contaminated materials from the Jake Joyner site is complete, no additional activities are planned and the project will be considered closed.

### Cost Baseline Comments:

The DOE EM Life Cycle Baseline that was recently issued in draft form from Bechtel Jacobs Company LLC to DOE-ORO is the cost basis for the PBS. Following development of scope statements, several methods were used for creating the cost estimates in the Life Cycle Baseline: use of cost estimating models, use of existing estimates, use of unit-price estimates, and extrapolation estimates. These include the following: 1) Cost Estimating Models - These innovative models were prepared using the government-accepted RACER cost database or were based on historical cost data for similar local work.

2) Existing Estimates - Existing estimates were also used. These estimates range previously approved Fiscal Year Baseline estimates to Feasibility Study estimates. Regardless of the source of the estimate, the estimates were reviewed for accuracy and modified as required to adequately qualify the line item cost data. 3) Unit-Price Estimates (Parametric)- Unit-price estimates, which are typically derived from historical cost data and are based on cost estimating relationships, were also used. 4) Extrapolation Estimates - Extrapolation estimates were typically derived from historical cost data and/or based on other previously approved estimates with similar scope. No matter which estimating method was used, each estimate was reviewed for errors, omissions, and consistency.

### Safety & Health Hazards:

Atomic City Auto Parts Site - Hazards associated with excavation, construction, demolition, and sampling in an area contaminated with PCBs, Dioxins, and Chromium-VI may be expected. Radiological hazards also exist.

David Witherspoon Inc. 901 Site - Hazards associated with excavation and treatment of soils, construction, demolition, and sampling in an area mainly

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contaminated with radionuclides, PCBs, Mercury and other heavy metals may be expected.

David Witherspoon Inc. 1630 Site - Hazards associated with excavation and treatment of soils, construction, demolition, and sampling in an area mainly contaminated with radionuclides, PCBs, Arsenic, and Vinyl Chloride may be expected.

Jake Joyner Site - Hazards associated with removal and disposal of radiological contaminated and asbestos-containing materials.

Offsite Program Site Evaluation - Hazards associated with well installation and the performance of pump tests may be expected.

### Safety & Health Work Performance:

Field activities managed by the TDEC will be in accordance with their safety and health policies, procedures and contractual agreements. At this juncture in the off-site remediation projects, there are no on-going field activities that Bechtel Jacobs Company is managing. The current activities are focused on the development and generation of the RI/FS documents for DOE and TDEC review and approval. As the DWI projects continue to be developed the Integrated Safety Management System which Bechtel Jacobs Company is implementing will be factored into all aspects of the work planning and execution phases of these future DWI remedial actions.

Before a subproject begins, several activities must be completed that demonstrate that all workers involved in the project have completed safety and health reviews and ensure that all potential hazards associated with the work have been identified. After the Health and Safety Plan (or equivalent) has been reviewed and approved, the project team must demonstrate readiness to the appointed Readiness Review Board. This board, which will be composed of people experienced in similar kinds of work, has the authority to examine all aspects of the project and require the team to provide documented evidence that requirements of the job have been met (e.g., review of project personnel training records). The direct S&H functional resources needed to for this PBS are Industrial Safety, Industrial Hygiene, Transportation Safety and Radcon Protection.

### PBS Comments:

### Baseline Validation Narrative:

The Oak Ridge Operations Office Environmental Management Life Cycle Baseline (LCB) was submitted by the Managing and Integrating Contractor, Bechtel Jacobs Company LLC, to DOE-ORO on April 1, 1999. The final draft LCB will be submitted to DOE-ORO on June 1, 1999 after formal receipt and incorporation of comments. A validation of the baseline is in process using an independent contractor to DOE-ORO. The validation will be ongoing until complete and the final validation report is scheduled to be issued on June 25, 1999.

## General PBS Information

**Project Validated?**

**Date Validated:**

**Has Headquarters reviewed and approved project?**

No

**Date Project was Added:**

3/10/1999

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## General PBS Information

Baseline Submission Date: 7/1/1999

FEDPLAN Project? Yes

<b>Drivers:</b>	<b>CERCLA</b>	<b>RCRA</b>	<b>DNFSB</b>	<b>AEA</b>	<b>UMTRCA</b>	<b>State</b>	<b>DOE Orders</b>	<b>Other</b>
	Y	Y	N	N	N	Y	N	N

## Project Identification Information

DOE Project Manager: Dave Adler

DOE Project Manager Phone Number: 423-576-4094

DOE Project Manager Fax Number: 423-576-5333

DOE Project Manager e-mail address: adlerdg@oro.doe.gov

Is this a High Visibility Project (Y/N):

## Planning Section

### Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	200,114	513	200,627	15,801	7,664	15,801	5,859	5,246	4,728	14,442	28,575	58,460	56,631	372	58	
PBS Baseline (constant 1999 dollars)	187,398	402	187,800	15,801	7,664	15,801	5,859	5,246	4,631	13,854	26,848	53,797	51,042	328	50	
PBS EM Baseline (current year dollars)	200,114	513	200,627	15,801	7,664	15,801	5,859	5,246	4,728	14,442	28,575	58,460	56,631	372	58	
PBS EM Baseline (constant 1999 dollars)	187,398	402	187,800	15,801	7,664	15,801	5,859	5,246	4,631	13,854	26,848	53,797	51,042	328	50	
	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011- 2015</b>	<b>2016- 2020</b>	<b>2021- 2025</b>	<b>2026- 2030</b>	<b>2031- 2035</b>	<b>2036- 2040</b>	<b>2041- 2045</b>	<b>2046- 2050</b>	<b>2051- 2055</b>	<b>2056- 2060</b>	<b>2061- 2065</b>	<b>2066- 2070</b>

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## Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-13,523	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	-365
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-13,888		

## Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
<b>Subtotal:</b>	-13,888	
<b>Additional Amount to Reconcile (+):</b>	170,086	

**Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):** **156,198**

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT (D3)RI/FS REPORT TO REGS FOR Review	OR821-001		8/18/1999								
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT REMEDIAL DESIGN WORK PLAN TO REGS FOR	OR821-002		1/26/2001								
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT RDR/RAWP TO REGS FOR REVIEW	OR821-003		9/12/2001								
David Witherspoon, Inc. 901 Site - CORRECTIVE MEASURES/REMEDIAL ACTION START	OR821-004		3/21/2002								
David Witherspoon, Inc. 901 Site - CORRECTIVE MEASURES/REMEDIAL ACTION COMPLETE	OR821-005		9/17/2004								

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT REMEDIAL ACTION REPORT TO REGS FOR REVIEW	OR821-006		12/17/2004								
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT RI/FS REPORT TO REGS FOR REVIEW	OR821-007		10/1/1999								
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT REMEDIAL DESIGN WORK PLAN TO REGS FOR REVIEW	OR821-007		2/8/2001								
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT RDR/RAWP TO REGS FOR REVIEW	OR821-008		9/25/2001								
David Witherspoon, Inc. 1630 Site - CORRECTIVE MEASURES/REMEDIAL ACTION START	OR821-009		4/4/2002								
David Witherspoon, Inc. 1630 Site - CORRECTIVE MEASURES/REMEDIAL ACTION COMPLETE	OR821-010		9/30/2004								
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT REMEDIAL ACTION REPORT TO REGS FOR REVIEW X310 -	OR821-011		1/5/2005								
OffSite Projects Def - PBS START DATE	or821-012		10/1/1996								
OffSite Projects Def - PBS END DATE	or821-013		9/30/2005								
Offsite Projects - Def. Mission Completion	OR821-015		9/30/2005								

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT (D3)RI/FS REPORT TO REGS FOR Review	OR821-001										David Witherspoon, Inc. 901 Site
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT REMEDIAL DESIGN WORK PLAN TO REGS	OR821-002										David Witherspoon, Inc. 901 Site

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
FOR											
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT RDR/RAWP TO REGS FOR REVIEW	OR821-003										David Witherspoon, Inc. 901 Site
David Witherspoon, Inc. 901 Site - CORRECTIVE MEASURES/REMEDIAL ACTION START	OR821-004										David Witherspoon, Inc. 901 Site
David Witherspoon, Inc. 901 Site - CORRECTIVE MEASURES/REMEDIAL ACTION COMPLETE	OR821-005										David Witherspoon, Inc. 901 Site
David Witherspoon, Inc. 901 Site - SUBMIT DRAFT REMEDIAL ACTION REPORT TO REGS FOR REVIEW	OR821-006										David Witherspoon, Inc. 901 Site
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT RI/FS REPORT TO REGS FOR REVIEW	OR821-007										David Witherspoon, Inc. 1630 Site
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT REMEDIAL DESIGN WORK PLAN TO REGS FOR	OR821-007										David Witherspoon, Inc. 1630 Site
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT RDR/RAWP TO REGS FOR REVIEW	OR821-008										David Witherspoon, Inc. 1630 Site
David Witherspoon, Inc. 1630 Site - CORRECTIVE MEASURES/REMEDIAL ACTION START	OR821-009										David Witherspoon, Inc. 1630 Site

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David Witherspoon, Inc. 1630 Site - CORRECTIVE MEASURES/REMEDIAL ACTION COMPLETE	OR821-010										David Witherspoon, Inc. 1630 Site
David Witherspoon, Inc. 1630 Site - SUBMIT DRAFT REMEDIAL ACTION REPORT TO REGS FOR REVIEW X310 -	OR821-011										David Witherspoon, Inc. 1630 Site
OffSite Projects Def - PBS START DATE	or821-012			Y							Start Date for Offsite Project PBS
OffSite Projects Def - PBS END DATE	or821-013				Y						End Date for the Offsite Projects PBS
Offsite Projects - Def. Mission Completion	OR821-015					Y					

## Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
<b>RS</b>														
Assess.	NR	3.00	0.00	3.00					2.00	1.00				
<b>RS</b>														
Cleanup	NR	4.00	0.00	4.00					1.00					
<b>Rem. Waste</b>														
Disposed	M3	46.00	0.00	46.00						18.00			14.00	14.00
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	Planned 2036 - 2040

Dataset Name: **FY 1999 Planning Data**

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Date of Dataset: **9/20/1999**

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Oak Ridge Reservation**

Project **OR-821 / Offsite Projects - Def.**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0162**

Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
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<b>RS</b>													
Assess.	NR												
<b>RS</b>													
Cleanup	NR		2.00	1.00									
Rem. Waste													
Disposed	M3	14.00											

Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
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<b>RS</b>										
Assess.	NR							4.00		5.00
<b>RS</b>										
Cleanup	NR							2.00		5.00
Rem. Waste										
Disposed	M3									46.00

**Release Sites**

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
ORTN	0093		RAIMS Unit #1638 \ Atomic City Auto Parts	Waste/Miscellaneous Surface Debris	1998			2006	2006			N		N
ORTN	0096		RAIMS Unit #1642 \ David Witherspoon, Inc., 1630 Site	Waste/Miscellaneous Surface Debris	2000			2005	2005			N		N
ORTN	0097		RAIMS Unit #1643 \ David Witherspoon, Inc., 901 Site	Above Ground Material / Waste/Scrap Yards	1999			2005	2005			N		N
ORTN	0099		RAIMS Unit #1644 \ Oak Ridge Tool Engineering, Inc.	Waste/Miscellaneous Surface Debris	1997			1998				N		N

# Project Baseline Summary Report

Data Source: **EM CDB**  
 Operations/Field Office: **Oak Ridge**  
 Site Summary Level: **Oak Ridge Reservation**  
 Project **OR-821 / Offsite Projects - Def.**

Report Number: **GEN-01b**  
 Print Date: **3/9/2000**  
 HQ ID: **0162**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
ORTN	2018		RAIMS Unit #2418 \ Jake Joyner Property	Above Ground Material / Waste/Debris Piles	1999			1999				N		N

## Technology Needs

Site Need Code: ORDD-01

Site Need Name: Improved Characterization of Equipment, Machinery, Fabricated Metals and Other Materials

Focus Area Work Package ID: DD-05

Focus Area Work Package: Material Recycle and Release

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

### Technologies

Portable X-Ray Fluorescence Spectrometer

Cost Savings (in thousands of dollars)

Range of Estimate

0

Site Need Code: ORDD-02

Site Need Name: Improved Decontamination of Equipment, Machinery, Fabricated Metals, and Other Materials

Focus Area Work Package ID: DD-05

Focus Area Work Package: Material Recycle and Release

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

Steam Vacuum Cleaning

Soft Media Blast Cleaning

Cost Savings (in thousands of dollars)

Range of Estimate

0

0



# Project Baseline Summary Report

Data Source: **EM CDB**  
Operations/Field Office: **Oak Ridge**  
Site Summary Level: **Oak Ridge Reservation**  
Project **OR-821 / Offsite Projects - Def.**

Report Number: **GEN-01b**  
Print Date: **3/9/2000**  
HQ ID: **0162**

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## Technology Needs

**Site Need Code:** ORDD-12  
**Site Need Name:** Improved Characterization of Buildings and Facilities

**Focus Area Work Package ID:** DD-07

**Focus Area Work Package:** Hot Cell Facilities and Laboratory Equipment D&D

**Focus Area:** DDFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):** Cost

### Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Portable X-Ray Fluorescence Spectrometer	0	
Gamma Cam (TM) Radiation Imaging System	0	
Ground Based Laser Induced Fluorescence Imaging	0	

**Site Need Code:** ORBW-13

**Site Need Name:** Hot Spot Retrieval

**Focus Area Work Package ID:** SS-10

**Focus Area Work Package:** Hot Spot Removal

**Focus Area:** SCFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):** Cost

### Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Dig Face Characterization	0	
Portable Selective Hot Spot Removal System	0	
Delineating Contamination in Soils	0	

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Dataset Name: **FY 1999 Planning Data**

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