

Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Oakland

Site Summary Level: Laboratory for Energy-Related Health Research

Project OK-010 / Laboratory for Energy-Related Health Research Environmental Restoration

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0267

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: The scope of the LEHR ER project includes; 1) completion of decontamination and decommissioning (D & D) activities; 2) removal of on-site radioactive sources; 3) remediation and/or removal of soil contamination at DOE burial areas, leach fields and outdoor dog pens; 4) closure or removal of underground tanks; 5) verification of cleanup completion, and; 6) post closure monitoring as required by CERCLA for NPL sites. These tasks will be performed in strict compliance with CERCLA requirements and all other applicable federal, state and local laws and regulations.

Technical Approach: The site is divided into six operable units (OUs). DOE is primarily responsible for the cleanup of four of these OUs, specifically, the Southwest Trenches, the Radium/Strontium (Ra/Sr) Treatment System, the Domestic Septic Tanks, and the Eastern and Western Dog pens. Under an agreement negotiated with UC Davis, the University is primarily responsible for the cleanup of ground water, three landfills, and the southern and eastern burial trenches. The DOE restoration strategy focuses on removal actions utilizing streamlined CERCLA and DOE guidance and practices. Although the removal alternatives are currently being evaluated via an Engineering Evaluation/Cost Analyses (EE/CA), it is anticipated that removal of waste, contaminated soil, and underground tanks will be the most likely risk based selected remedies. Considering the limited areas of contamination, site clean up is expected to focus on excavation and removal of contaminated media, which limits the opportunities to apply innovative remedial technologies. An innovative characterization technology, the BetaScint Soil Sensor, is being utilized to obtain real time measurements of Sr-90 levels in soil during the clean up verification phase. This technology accelerates completion of the verification phase.

Project Status in FY 2006:

Remediation of DOE areas will be completed and all facilities will be returned to UC Davis (the landlord). The only work anticipated to continue through FY 2006 is participation in five-year post closure reviews as required by CERCLA and possibly NPL deletion activities.

Post-2006 Project Scope:

Participation in the CERCLA required post closure reviews will continue and will be performed utilizing DOE/OAK program direction funds.

Project End State

This project is composed of two main programs: 1) Facility decontamination and decommissioning (D&D) program and Source removal and 2) Soil characterization and clean up program. The D&D facilities will be released to UC Davis (landlord) for unrestricted use. The 600 Ci Co-60 source will be removed, and transported offsite for reuse or disposal. Removal of contaminated waste, soils, and debris is being initiated under the soil clean up program. It is anticipated that most contaminated media including soils, tank systems, buried waste, leach fields and dry wells will be removed, packaged and shipped to off-site waste disposal facilities. Waste generated from these removal actions will be transferred to the EM-30 Waste Management Project ID LH0275 which will be responsible for packaging, transportation and disposal of this restoration waste. As specified in the June 1997 MOA, UC Davis accepted responsibility for the investigation and remediation of ground water contamination. It may be most feasible to mitigate risk from some DOE areas through institutional controls. This will likely require additional agreements with UC to manage the risk from DOE areas of the site long term.

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Cost Baseline Comments:

Cost estimates are preliminary since removal alternatives and cleanup levels are yet to be finalized. Bottoms Up Cost estimating is used to develop the cost baseline for this PBS. Actual cost data and costs based on previous experience in similar activities were used where available to estimate costs. Contingency rates were developed to address the level of uncertainty. Fee was applied to the cost estimates at a rate of 8% to account for contractor base and incentive fees. The actual incentive fee amounts will vary according to the outcome of contractor performance assessments. The cost baseline was developed with cost data from the draft EE/CA for the Southwest Trenches, Ra/Sr Treatment Systems, and Domestic Septic System Areas, Revision E, and LEHR task plans.

Cost assumptions include: no significant additional contamination will be discovered (i.e. in the SouthWest trenches no radiological contamination remains), no mixed waste will be generated, no unexpected waste type will be encountered, risk based cleanup levels (as opposed to background) will be accepted by stakeholders, excavations will not exceed the dimensions and volumes stated in task plans or no additional excavation is required after the field Screening Results have been presented to the RPMs, funding is available to carry out work to be performed. The site will continue to be used for research and teaching. Ground water, surface water and landfills will be remediated by UC Davis, and DOE or commercial sites will be available for disposal of low-level waste.

Safety & Health Hazards:

Site remediation activities will involve excavation, packaging and transportation of low level radioactive waste from various burial trenches and leach fields. Potential exists for personnel contamination and/or environmental release of contaminants. Detailed HASPs will be prepared and strictly followed and Readiness Reviews conducted prior to startup of major field activities. Also, Hazard Work Permits (HWPs) identifying potential hazards associated with field activities as well as control measures to eliminate/minimize hazards will be prepared and approved by the site H&S Officer before initiation of field activities.

Safety & Health Work Performance:

All project staff will receive proper H&S training including 40 hour OSHA, 8 hour OSHA refresher, First Aid Respiratory Protection, Heat Stress, Emergency Response, Employee Emergency Plans and Fire Prevention Plans, Accident Prevention, Signs and Tags at LEHR, Contingency plan and General Emergency Procedures, Project Health and Safety Plan, Labels of Injurious Substances, PPE at LEHR, Proposition 65 Issues, HWP, Radiological Protection Procedures, ALARA Program Training, Hazard Communication, Preparation of Hazardous Material for Transport, Safety training and Education, Emergency Medical Services and First Aid, Specific excavation requirements, Protection Systems and Excavations, Electrical Safety, Quality Assurance Program Training and Radiological Worker I and II certifications. All personnel who enter the site must understand the applicable section of the Project Health and Safety Procedures or task specific work plans and conduct work in strict accordance with the applicable sections, perform only those tasks that they believe they can do safely. All project staff must immediately report any accidents and unsafe working conditions. Corrective action will be determined and implemented to prevent recurrence of the accident. Daily tailgate meetings will be held prior to start of work. H&S issues and/or concerns will be fully addressed in these meetings to eliminate/minimize H&S incidents and ensure readiness prior to work, monitoring controls, and mechanisms for unforeseen hazards. Radiological frisking program will be instituted and strictly followed before and after entering radiologically controlled areas. The heat stress program is implemented when activities are performed during warm conditions. Spotters are used whenever heavy equipment is being operated to eliminate/reduce the likelihood of injury. A periodic safety inspection is conducted and documented using a safety inspection checklist. Site conditions and activities will be inspected periodically to identify changing conditions or potential hazards. Safety records shall be maintained on site. Sufficient resources will be allocated to ensure that site remediation activities are

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Project Description Narratives

conducted in a safe manner. Site activities will be conducted in accordance with all applicable laws and regulations and project H&S plans and associated radiological control plans and procedures, including the site ALARA document and the Final Project Health and Safety Plan for Environmental Restoration/Waste Management, LEHR, UC Davis, California. H & S and radiological engineering controls will be instituted including proper shielding, controlled work zones, engineered barriers, personnel monitoring, posting, medical surveillances and Personnel Protective Equipment.

PBS Comments:

An Interim Letter of Agreement (ILA) was signed with EPA in September, 1996. A Federal Facility Agreement (FFA) under CERCLA is being negotiated between DOE, EPA and state agencies. Due to the nature of research (using animals) and the ground water contamination, the site has been visible to the news media and other interested parties including congressional staff. Also, UC Davis has independently operated radioactive waste burial trenches and three landfills on-site and is a potentially responsible party for site cleanup. A formal agreement has been reached between DOE and UC Davis to allocate their respective responsibilities for site cleanup.

Baseline Validation Narrative:

In April 1999, DOE Oakland performed a cost validation on Environmental Restoration project for FY1999 and FY2000 at LEHR. In performing this validation DOE/OAK prepared a detailed bottoms-up type estimate based on the scope of work identified by LEHR. DOE/OAK used this independent estimate to compare with the estimate prepared by LEHR for the on Environmental Restoration project. Meetings are scheduled with the site to reconcile the cost differences. The review team based their cost estimates on costs developed from similar type projects at other government sites and private industry.

General PBS Information

Project Validated? Yes **Date Validated:** 4/30/1999
Has Headquarters reviewed and approved project? No
Date Project was Added: 12/1/1997
Baseline Submission Date: 7/13/1999
FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	Y	N

Project Identification Information

DOE Project Manager: Susan Fields
DOE Project Manager Phone Number: 510-637-1608

Dataset Name: **FY 1999 Planning Data**

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

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Project **OK-010 / Laboratory for Energy-Related Health Research Environmental Restoration**

General PBS Information

DOE Project Manager Fax Number: 510-637-2078

DOE Project Manager e-mail address: susan.fields@oak.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)	31,359	0	31,359	3,549	3,802	5,580	5,163	3,030	3,000	5,500	5,500	4,000	1,000	100	100	
PBS Baseline (constant 1999 dollars)	30,191	0	30,191	3,549	3,802	5,580	5,163	3,030	2,921	5,245	5,137	3,659	896	88	86	
PBS EM Baseline (current year dollars)	31,359	0	31,359	3,549	3,802	5,580	5,163	3,030	3,000	5,500	5,500	4,000	1,000	100	100	
PBS EM Baseline (constant 1999 dollars)	30,191	0	30,191	3,549	3,802	5,580	5,163	3,030	2,921	5,245	5,137	3,659	896	88	86	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/1/2002

Current Projected End Date of Project: 9/30/2006

Explanation of Project Completion Date Difference (if applicable):

Due to additional scope in FY 2003 and 2004, and schedule delays caused by budget shortfalls in FY 1999 and F2000, the project completion milestone shifts from FY2002 to FY2004.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	17,726	Actual 1997 Cost:	3,802	Actual 1998 Cost:	5,163
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	8,761	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			237
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	8,998				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

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Project Reconciliation

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

2,717 Nitrate Soil Removal, RI, Site Wide Risk Assessment Input, FS, proposed plan,

Cost Growth Associated with Scope Previously Reported (+):

10,514 Last year:costs underestimated for RA's,did not include contingency, fees & Eastern Dog Pens Remedy

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal:

22,229

Additional Amount to Reconcile (+):

-1,167

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

21,062

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Close out of EM-40 Project	OK-10-24		9/30/2006	9/30/2006			Y				
Complete Cleanup Verification for DOE areas and pro	OK-10-19		2/15/2003	2/15/2003			Y				
Complete Domestic Tank 1 RA	OK-10-08		2/15/2002	2/15/2002			Y				
Complete Domestic Tank 2 RA	OK-10-09		2/15/2002	2/15/2002			Y				
Complete Domestic Tank 3 RA	OK-10-10		2/15/2002	2/15/2002			Y				
Complete Domestic Tank 4 RA	OK-10-11		2/15/2002	2/15/2002			Y				
Complete Domestic Tank 5 RA	OK-10-12		2/15/2002	2/15/2002			Y				
Complete Domestic Tank 6 RA	OK-10-13		2/15/2002	2/15/2002			Y				
Complete Domestic Tank 7 RA	OK-10-14		2/15/2002	2/15/2002			Y				
Complete Eastern dog pens area remediation	OK-10-18		2/15/2002	2/15/2002			Y				
Complete Ra dist. box and piping system RA	OK-10-06		6/15/2001	6/15/2001			Y				
Complete Ra tanks RA	OK-10-04		6/15/2001	6/15/2001			Y				
Complete SW Trenches RA	OK-10-02		6/30/1999	6/30/1999			Y				

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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
Complete Sr tanks RA	OK-10-05		6/15/2001	6/15/2001			Y				
Complete Sr. leach field and piping system RA	OK-10-07		6/15/2001	6/15/2001			Y				
Complete Western dog pens area RA	OK-10-17		2/15/2003	2/15/2002			Y				
Complete dry well/leach field RA	OK-10-03		6/15/2001	6/15/2001			Y				
Complete survey/release of GER I WSF	OK-10-16		12/1/2003	12/1/2003			Y				
Project Mission Complete	OK-10-27		9/30/2004	9/30/2004			Y				
Complete nitrate removal action at the South West trenches- LEHR			9/1/2003	9/1/2003					Y		
Project start date			2/21/1996								

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
Close out of EM-40 Project	OK-10-24	Y	Y		Y		4	3	2		
Complete Cleanup Verification for DOE areas and pro	OK-10-19		Y				4	3	2		No action DOE ROD for DOE Areas
Complete Domestic Tank 1 RA	OK-10-08		Y				2	3	3		
Complete Domestic Tank 2 RA	OK-10-09		Y				2	3	3		
Complete Domestic Tank 3 RA	OK-10-10		Y				2	3	3		
Complete Domestic Tank 4 RA	OK-10-11		Y				2	3	3		
Complete Domestic Tank 5 RA	OK-10-12		Y				2	3	3		
Complete Domestic Tank 6 RA	OK-10-13		Y				2	3	3		
Complete Domestic Tank 7 RA	OK-10-14		Y				2	3	3		
Complete Eastern dog pens area remediation	OK-10-18						4	3	3		

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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
Complete Ra dist. box and piping system RA	OK-10-06						2	3	3		
Complete Ra tanks RA	OK-10-04		Y				2	3	3		
Complete SW Trenches RA	OK-10-02		Y				1	3	3		
Complete Sr tanks RA	OK-10-05		Y				2	3	3		
Complete Sr. leach field and piping system RA	OK-10-07						2	3	3		
Complete Western dog pens area RA	OK-10-17		Y				4	3	2		
Complete dry well/leach field RA	OK-10-03						2	3	3		
Complete survey/release of GER I WSF	OK-10-16						4	3	2		
Project Mission Complete	OK-10-27		Y			Y	4	3	2		
Complete nitrate removal action at the South West trenches- LEHR											
Project start date				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
RS														
Assess.	NR	16.00	0.00	16.00		1.00	1.00	13.00	2.00					
RS														
Cleanup	NR	16.00	0.00	16.00					1.00		5.00	9.00	1.00	

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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
Fac.														
Decom.- Assess.	NF	1.00	0.00	1.00								1.00		
Fac.														
Decom- Cleanup	NF	1.00	0.00	1.00										1.00
LLW														
Storage	M3							1.00	1.00	0.00	0.00	0.00		
Rem. Waste														
Disposed	M3	0.00	0.00	0.00										
Tech.														
Deployed	Ntd	0.00	0.00	0.00										
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	
RS														
Assess.	NR													
RS														
Cleanup	NR													
Fac.														
Decom.- Assess.	NF													
Fac.														
Decom- Cleanup	NF													
LLW														
Storage	M3													

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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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Rem. Waste

Disposed M3
Tech.

Deployed Ntd

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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RS

Assess. NR 2.00 16.00

RS

Cleanup NR 16.00

Fac.

Decom.- Assess. NF 1.00

Fac.

Decom- Cleanup NF 1.00

LLW

Storage M3 0.00

Rem. Waste

Disposed M3 5.00 5.00

Tech.

Deployed Ntd 1.00 1.00

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
LEHR	0002	R	LF \ Ra & Sr. Leach Fields (transferred to RA) /		1998	1998	3/30/1998	2001				N		Y

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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
LEHR	0003	R	DOMT \ SEPTIC SYSTEMS	/	1997	1997	8/1/1997	2002	1999			N		U
LEHR	0004		SW TRENCH \ SOUTHWEST TRENCHES	Waste/Trenches / Outfalls	1998	1998	3/30/1998	1999	1999	6/30/1999		Y		Y
LEHR	0012		WDP \ Western dog pens area	Miscellaneous/Other	1999	1999		2003	2003			N		N
LEHR	0013		EDP \ Eastern dog pens area	Waste/Miscellaneous Surface Debris	1999	2000		2002	2003			N		Y
LEHR	0014		OFCO60 \ 500Ci Co-60 source located on UC Davis Campus.	Miscellaneous/Other	1997	1997	3/30/1997	2002	2001			N		N
LEHR	0015		Ra-DW/LF \ Radium dry wells and leach fields	Waste/Pits	1998	1998	3/30/1998	2001	2001			N		N
LEHR	0016		Ra-UGRND.T \ Ra-226 underground tanks	Tanks/Underground Storage Tanks	1998	1998	3/30/1998	2001	2001			N		N
LEHR	0017		Sr-UGRND.T \ Sr-90 underground tanks	Tanks/Underground Storage Tanks	1998	1998	3/30/1998	2001	2001			N		N
LEHR	0018		Ra-DB/PS \ Ra-226 distribution box and piping system	Miscellaneous/Other	1998	1998	3/30/1998	2001	2001			N		N
LEHR	0019		Sr-LF/PS \ Sr-90 leach field and piping system	Miscellaneous/Other	1998	1998	3/30/1998	2001	2001			N		N
LEHR	0020		DOMT-1 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		Y
LEHR	0021		DOMT-2 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		N
LEHR	0022		DOMT-3 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		N
LEHR	0023		DOMT-4 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		N
LEHR	0024		DOMT-5 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		N
LEHR	0025		DOMT-6 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		N
LEHR	0026		DOMT-7 \ Septic tank	Tanks/Septic Tanks	1998	1998	3/30/1998	2002	2002			N		N

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Project **OK-010 / Laboratory for Energy-Related Health Research Environmental Restoration**

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
LEHR	0027		GER-I \ Waste staging/storage facility	Buildings & Equipment/Storage Building / Warehouse	Non-Nuclear Facility	2002	2002					2003	2003			N		N

Technology Needs

Site Need Code: **OK99-23**

Site Need Name: **Field Surveillance Device for Detection of Radium-226**

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: **N**

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

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

: -

Technology Deployments

Deployment Year

Deployment Status

Planned

Forecast

Actual Date

Technology Name: **Direct Measurement of Strontium-90 in Subsurface Soils**

Deployment Commitment: **1998**

Dataset Name: **FY 1999 Planning Data**

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