

Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Idaho

Site Summary Level: Idaho National Engineering and Environmental Laboratory

Project ID-ER-102 / Test Reactor Area Remediation

Report Number: GEN-01b

Print Date: 3/10/2000

HQ ID: 0165

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

PURPOSE:

In response to the requirements of the Federal Facility Agreement and Consent Order at the INEEL under CERCLA, this project provides for the assessment and remediation of the Test Reactor Area (TRA) Waste Area Group 2, at the INEEL. The various waste release sites have been grouped into 13 Operable Units (OUs) based on the similar nature of the releases. The 13 OUs are composed of known and suspected releases from disposal ponds, waste lines, underground storage tanks and other incidental releases as a result of facility operations at the TRA. Contaminants of concern include radionuclides, metals, organics, and polychlorinated biphenols (PCBs). Assessment of Waste Area Group 2 includes: characterizing potential hazardous substance release units to determine the nature and extent of contamination; determining and documenting whether or not any contamination found constitutes unacceptable risk to human health and the environment; determining the feasibility of various remedial alternatives to reach consensus on a proposed cleanup action with the regulatory agencies; and reach a Record of Decision. Currently, all waste release sites at Waste Area Group 2 have been evaluated to determine whether or not contamination still exists at the site, and if so, whether the contamination is present at concentrations that pose an unacceptable risk to current workers and/or future human receptors which may inhabit the site. This evaluation has been conducted in what CERCLA calls a Remedial Investigation/Feasibility Study (RI/FS). The Waste Area Group 2 RI/FS determined that eight of the 55 identified sites at Waste Area Group 2 pose an unacceptable risk to human health and the environment, and therefore, cleanup of these sites must occur. Remediation of the low level radioactive and/or hazardous substance release sites in Waste Area Group 2, which pose unacceptable risk to human health and environment will be performed to reduce the contamination and associated risk to acceptable levels. Remediation will be accomplished by containment of the waste in place and institutional controls. At the time of this PBS update, the DOE, Environmental Protection Agency, and State of Idaho have reached a final decision as to the appropriate mechanism by which the eight contaminated sites will be cleaned up, and cleanup is underway as of March 12, 1998. This project directly supports completion of regulatory requirements with enforceable milestones defined in the INEEL Federal Facility Agreement and Consent Order and Settlement Agreement.

DEFINITION OF TERMS:

--FFA/CO: An agreement between the Department of Energy, Environmental Protection Agency, and the State of Idaho to evaluate past releases of hazardous substances to the environment at the INEEL and perform remediation, if necessary.

--Waste Area Group: One of ten administrative management areas established under the FFA/CO.

--Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): A federal law that establishes a program to identify, evaluate, and remediate sites where hazardous substances may have been released, leaked, poured, spilled, or dumped into the environment.

DEFINITION OF SCOPE:

The cleanup of CERCLA sites at the TRA (also identified as Waste Area Group 2) is governed by the INEEL Federal Facility Agreement and Consent Order, under which a Comprehensive Remedial Investigation and Feasibility Study was performed and a Record of Decision finalized. Activities to be completed in accordance with the requirements of the Record of Decision include: monitoring of perched water below TRA, completion of remedial action, and initiation of operations and maintenance. Remedial actions are a combination of institutional controls and installation of waste

Dataset Name: FY 1999 Planning Data

Date of Dataset: 9/20/1999

Page 1 of 14

Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Idaho

Site Summary Level: Idaho National Engineering and Environmental Laboratory

Project ID-ER-102 / Test Reactor Area Remediation

Report Number: GEN-01b

Print Date: 3/10/2000

HQ ID: 0165

Project Description Narratives

containment systems such as engineered barriers. Operations and maintenance activities include monitoring of air, soil, and groundwater to ensure remedial action activities continue to be protective of sites where contaminated media have been left in place. Completion of these activities support the goal of delisting the INEEL from the National Priorities List (Superfund Site).

DEFINITION OF TERMS--Record of Decision: a public document that identifies the selected remedy at a site, outlines the process used to reach a decision on the remedy, and confirms that the decision complies with CERCLA. --Proposed Plan: A document requesting public input on a proposed remedial alternative. Public input on the proposed alternatives is a requirement of CERCLA.

TECHNICAL APPROACH:

Assessment of TRA waste sites was conducted in accordance with the Federal Facility Agreement and Consent order and CERCLA. The assessment included characterization of waste sites through determination of the nature and extent of a potential release and an evaluation of the impact of the release on human health and the environment. The characterization approach (as specified in the Federal Facility Agreement and Consent Order) required Track 1, Track 2 (limited investigation), and Remedial Investigations/Feasibility Studies to be conducted for TRA waste sites. Track 1 preliminary investigations were conducted at sites that did not require further information/data in order to make a remedial action decision and were by definition to be evaluations of existing data. Track 2 preliminary investigations were performed at sites that required field data collection before a remedial action decision could be made. Information from the Track 1 and Track 2 investigations will be fed into the Remedial Investigation/Feasibility Study process. The assessment process concluded with a Record of Decision that defined the actions to be taken to reduce the risk at contaminated sites to an acceptable level. The Record of Decision was followed by a Remedial Design/Remedial Action work plan developed in accordance with INEEL Federal Facility Agreement and Consent Order requirements and DOE orders. The cleanup process (remedial action) at TRA will include remediation of inactive sites with unacceptable risks by the year 2000; cleanup of inaccessible sites will continue beyond 2006. Because the TRA is an industrial facility, some of the contaminated sites requiring cleanup will not be accessible until operations cease. Institutional controls will be maintained at these sites to protect occupational workers from exposure to contaminants. Cleanup of contaminated sites will be accomplished using an appropriate combination of institutional controls, containment barriers, and excavation for disposal at an appropriate facility. Cleanup of contaminated soil sites under buildings will be coordinated with the Decontamination and Dismantlement Program, with completion of cleanup anticipated beyond 2000. Cleanup decisions are primarily based on whether or not a hypothetical resident inhabiting the site 100 years in the future would be exposed to contaminants that would cause an unacceptable health risk. If so, then a remedial action cleanup is likely to be implemented at such sites. At TRA, 47 sites have been determined to require No Action, and eight sites will require remedial action. Remedial actions will include covers over three sites, excavation and disposal at another site, and Limited Action at the remaining four sites, with an excavation and disposal option as necessary on two of those sites based on the effectiveness of institutional controls. Technology development is required for real-time field instrumentation for characterization, excavation control, and cleanup verification of radionuclide and metal contaminated soils.

DEFINITION OF TERMS-Institutional Controls: Includes access restrictions, management control procedures, routine maintenance, and monitoring.

Seeded data in the waste module was not provided by the PBS Manager. The data source is AVS, but validation is not possible because the data is entered by waste stream, not PBS.

Current or planned remediation activities are NOT dependent upon EM-50 science or technology development initiatives. However, development of

Dataset Name: FY 1999 Planning Data

Date of Dataset: 9/20/1999

Page 2 of 14

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Idaho**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

Project **ID-ER-102 / Test Reactor Area Remediation**

Report Number: **GEN-01b**

Print Date: **3/10/2000**

HQ ID: **0165**

Project Description Narratives

these sciences or technologies could potentially result in schedule and/or cost savings.

Project Status in FY 2006:

It is expected that the majority of TRA cleanup will be completed and long range operations and maintenance activities will be ongoing. By 2006, all accessible contaminated soil sites, except soil under buildings and those that are in TRA operations areas, will be remediated. Soils under buildings and in areas of active TRA operations will be under institutional controls to meet remedial action objectives by the year 2000.

Post-2006 Project Scope:

Long-range surveillance and maintenance activities will be ongoing. Institutional controls will be in place and maintained. It is anticipated that TRA facilities will remain operational until at least 2035, therefore, remediation of contaminated soil in areas of operations will not be completed until TRA operations cease. Institutional controls in these areas will be invoked by 2000 and will remain in place until remediation can occur.

Project End State

Long-range surveillance and maintenance activities will be ongoing and consist of environmental monitoring of air, soil, and groundwater; access restrictions; and surface water diversion maintenance for sites that have been capped. The cleanup process and end states described here are assumptions based on current information available at the time this Project Baseline Summary was prepared. The End States have not been agreed upon by the regulators, stakeholders, or Tribal nations. Completion of the activities contained in this Project Baseline Summary support the goal of delisting the INEEL for the National Priorities List. A conceptual vision of the End State in the year 2094 for the INEEL and each of the major facility areas have been defined through a compliance reengineering effort that identified a pathway to achieve concurrence on each End State.

Cost Baseline Comments:

The Baseline costs represented here do not include contingency for authorized work packages, but do contain contingency for planning packages. This contingency is removed upon development of detailed work packages. Escalation is included. The INEEL Environmental Restoration (ER) Program has, since 1991, promoted use of the bottoms up/Activity Based Costing (ABC) approach, in the development of planning estimates in its Assessment and Remedial Design and Remedial Action projects. All INEEL ER cost estimates have been developed using sound technical and planning principles, and are accompanied by basis of estimate documentation intended to demonstrate the rationale and specifics behind the estimates. Bottoms Up estimating, or ABC, wherein the work scope is portrayed down to the task level, is both desired and encouraged, but not always practical.

The basis of estimates include a well defined statement of work, performance measures, products required for completion, products delivered, key support activities, and known milestones, etc., for every level of the program work scope. For work scope with definable milestones and deliverables, the cost estimates are very detailed and more precise. For more subjective work scope, where it is difficult to identify a specific end-product or deliverable, detail is provided to the lowest level possible. In most cases, the clarity of the available scope and associated planning assumptions is a key consideration in determining the specific technique used to develop a particular cost estimate.

Escalation rates used for FY-2001 through the lifecycle of the project are 2.1% compounded annually.

The cost estimates associated with this Project Baseline Summary are based on completing the enforceable milestone requirements identified in the

Dataset Name: **FY 1999 Planning Data**

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

Page 3 of 14

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Idaho**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

Project **ID-ER-102 / Test Reactor Area Remediation**

Report Number: **GEN-01b**

Print Date: **3/10/2000**

HQ ID: **0165**

Project Description Narratives

Federal Facility Agreement and Consent Order.

Safety & Health Hazards:

This project is presently collecting the appropriate data to make risk based decisions regarding future clean up activities through the CERCLA process. In the outyears, remedial actions concerning the INEEL Waste Area Group 2 sites will be performed. Consequently the necessary safety and health functions required to maintain safe and compliant operations now and in the future are in place and operating properly. The primary hazards associated with the closure of the Waste Area Group 2 sites include low level radiological constituents, organic contaminants, PCBs, and inorganic compounds, and sanitary waste. During remedial actions and maintenance and monitoring activities there will also be a number of industrial safety and industrial hygiene related hazards to address such as slips, trips, and falls; lifting; working on elevated structures; moving equipment; inhalation of dusts; temperature extremes; etc. These hazards will most commonly be encountered during activities such as soil removal activities and construction of process equipment that will be required for remediation of the V-tanks. Work hazards associated with decontamination and dismantlement activities will be essentially the same.

Hazard documentation developed includes, but is not limited to, project specific health and safety plans, detailed operating procedures, standard operating procedures, job safety analyses, job hazard analyses, hazard profile screening checklist, etc. These documents will be developed during the early stages of each project and will determine the methods, procedures, and equipment used during project implementation to reduce hazards to workers and the environment.

Safety & Health Work Performance:

The resources necessary to accomplish the planned work safely and in compliance are identified through the Health and Safety Program requirements as well as the authorization basis discussed previously. Resources allocated at the site to ensure compliance with health and safety requirements, as well as safety on the job include: radcon, safety, industrial hygiene, occupational medical, fire, emergency management, safeguards and security, performance oversight, quality, the Voluntary Protection Program, etc. Safety and health resources are planned and allocated into the appropriate category by cost center through the work breakdown structure and they are loaded into each project for each fiscal year. Institutional support, such as medical facilities and personnel, security, fire protection, etc., are funded out of the financial systems indirect labor adder, and project-specific safety and health professional support (e.g., industrial safety engineer) is identified in specific control account plans where the support is required. The average cost per FTE, burdened, is approximately \$60/hour to \$65/hour for each of the safety professionals identified above. Presently there are no plans to conduct full DOE operational readiness reviews although all projects will undergo a complete evaluation of their readiness to proceed with field activities. Applicable projects will complete unreviewed safety question determinations. Personnel are trained in Stop Work Authority, emergency preparedness procedures, health and safety plans, work plans, integrated safety management, integrated work control, conduct of operations, and conduct of maintenance, etc. Safety, radcon, health, fire, environmental, and quality personnel conduct routine inspections to ensure personnel and the environment are protected. The frequency of these inspections is dependent on the status of each particular project but generally ranges between daily to every other week. During field work the same level of ESH&Q support is required throughout the project. At this time the level of support required of the safety professionals will be reduced significantly and will only be performed during maintenance and monitoring activities. There are currently no unfunded or under funded safety, health, environmental, or quality resource requirements associated with this PBS. Upon completion of remedial actions, and the initiation of institutional controls, the level of safety and health resources required will be reduced to a minimum.

Dataset Name: **FY 1999 Planning Data**

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

Page 4 of 14

Project Baseline Summary Report

Data Source: **EM CDB**
Operations/Field Office: **Idaho**
Site Summary Level: **Idaho National Engineering and Environmental Laboratory**
Project **ID-ER-102 / Test Reactor Area Remediation**

Report Number: **GEN-01b**
Print Date: **3/10/2000**
HQ ID: **0165**

Project Description Narratives

Resource levels vary from fiscal year to fiscal year depending on the extent of sampling and/or remediation activities being performed.

PBS Comments:

N/A

Baseline Validation Narrative:

The INEEL Environmental Management Integration Team performed a compliance and cost estimating review of all activities associated with this PBS. This PBS reflects the comments and recommendations associated with the review. The Remediation Program has, since 1991, promoted use of the bottoms up/ABC approach, in the development of planning estimates for Assessment and Remedial Design and Remedial Action projects. All INEEL Remediation Program cost estimates have been developed using sound technical and planning principles and are accompanied by basis of estimate documentation intended to demonstrate the rationale and specifics behind the estimates. Bottoms Up estimating or Activity Based Costing, wherein the work scope is portrayed down to the task level, is both desired and encouraged.

The basis of estimate includes a well defined statement of work, performance measures, products required for completion, products delivered, key support activities, and known milestones, etc., for every level of the program work scope. For work scope with definable milestones and deliverables, the cost estimates are very detailed and more precise. For more subjective work scope, where it is difficult to identify a specific end-product or deliverable, detail is provided to the lowest level possible. In most cases, the clarity of the available scope and associated planning assumptions is a key consideration in determining the specific technique used to develop a particular cost estimate.

General PBS Information

Project Validated? Yes **Date Validated:** 2/13/1996

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

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

Project Identification Information

DOE Project Manager: G. Nelson

DOE Project Manager Phone Number: 208-526-0077

DOE Project Manager Fax Number: 208-526-0553

Dataset Name: **FY 1999 Planning Data**

Page 5 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

General PBS Information

DOE Project Manager e-mail address: NELSONGE@INEL.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)	8,362	4,654	13,016	1,214	1,488	760	1,380	3,187	1,474	906	166	150	174	164	167	
PBS Baseline (constant 1999 dollars)	8,196	3,121	11,317	1,214	1,488	760	1,380	3,187	1,435	864	155	137	156	144	144	
PBS EM Baseline (current year dollars)	8,362	4,654	13,016	1,214	1,488	760	1,380	3,187	1,474	906	166	150	174	164	167	
PBS EM Baseline (constant 1999 dollars)	8,196	3,121	11,317	1,214	1,488	760	1,380	3,187	1,435	864	155	137	156	144	144	
	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)	168	183	177	178	971	1,075	1,194	708	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	141	151	143	141	720	720	720	385	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	168	183	177	178	971	1,075	1,194	708	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	141	151	143	141	720	720	720	385	0	0	0	0	0	0	0	0

Dataset Name: **FY 1999 Planning Data**

Page 6 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

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: 9/30/2038

Current Projected End Date of Project: 9/30/2026

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	18,204	Actual 1997 Cost:	1,488	Actual 1998 Cost:	1,380
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	15,336	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	414		
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	15,750				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):	6,404	Remediation estimates were less than anticipated
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		

Dataset Name: **FY 1999 Planning Data**

Page 7 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

Project Reconciliation

Subtotal:	9,346
Additional Amount to Reconcile (+):	-3
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	9,343

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Completed Release Sites (4)	W2RSFC00				9/30/2000						
OU 2-10 Draft RA Report Sent to DOE-HQ/EPA/IDHW	EOEP2000		2/15/1994	2/15/1994		2/15/1994	Y				
OU 2-13 Draft RD/RAWP Sent by DOE-ID to EPA/IDHW for Review	TMEP032		7/31/1998	7/31/1998		6/16/1998	Y				
OU 2-13 Draft RI/FS ROD Sent by DOE-ID to EPA/IDHW for Review	TMEP011		6/30/1999	6/30/1999		6/25/1997	Y				
OU 2-13 Draft RI/FS Report Sent by DOE-ID to EPA/IDHW for Review	TMEP024		8/31/1998	8/31/1998		8/23/1996	Y				
OU 2-13 Draft RI/FS SOW Sent by DOE-ID to EPA/IDHW for Review	TMEP037		7/31/1996	7/31/1996		7/25/1994	Y				
OU 2-13 Draft RI/FS WP Sent by DOE-ID to EPA/IDHW for Review	TMEP039		12/31/1996	12/31/1996		12/23/1994	Y				
Project Start			10/1/1996								
Project Complete			9/30/2026								
OU 2-13 Draft RA Report sent by DOE-ID to EPA/IDHW for review	TMEP617		3/20/2001								
OU 2-13 RD/RA Work Plan becomes final - Sent by DOE-ID to ARDC	TMIP040		9/28/1999								
OU 2-13 Remedial Action Bid Awarded	TMCA475		2/3/1999								
OU 2-13 Field Work started	TMCA014		3/4/1999								

Dataset Name: **FY 1999 Planning Data**

Page 8 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
OU 2-13 Draft RA Report (Including Pre-Final Inspection Report to DOE-ID for review	TMCP013		11/15/1999								
OU 2-13 Draft RA Report(Including Pre-Final Inspection Report)sent by DOE-ID to EPA/IDHW for review	TMP013		1/15/2000								

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
Completed Release Sites (4)	W2RSFC00									Y	
OU 2-10 Draft RA Report Sent to DOE-HQ/EPA/IDHW	EOEP2000										
OU 2-13 Draft RD/RAWP Sent by DOE-ID to EPA/IDHW for Review	TMEP032										
OU 2-13 Draft RI/FS ROD Sent by DOE-ID to EPA/IDHW for Review	TMEP011										
OU 2-13 Draft RI/FS Report Sent by DOE-ID to EPA/IDHW for Review	TMEP024										
OU 2-13 Draft RI/FS SOW Sent by DOE-ID to EPA/IDHW for Review	TMEP037										
OU 2-13 Draft RI/FS WP Sent by DOE-ID to EPA/IDHW for Review	TMEP039										
Project Start				Y							
Project Complete					Y						
OU 2-13 Draft RA Report sent by DOE-ID to EPA/IDHW for review	TMEP617										
OU 2-13 RD/RA Work Plan	TMP040										

Dataset Name: **FY 1999 Planning Data**

Page 9 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

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
becomes final - Sent by DOE-ID to ARDC											
OU 2-13 Remedial Action Bid Awarded	TMCA475										
OU 2-13 Field Work started	TMCA014										
OU 2-13 Draft RA Report (Including Pre-Final Inspection Report to DOE-ID for review	TMCP013										
OU 2-13 Draft RA Report(Including Pre-Final Inspection Report)sent by DOE-ID to EPA/IDHW for review	TMP013										

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	21.00	0.00	21.00				15.00		6.00				
RS														
Cleanup	NR	19.00	2.00	21.00				7.00		6.00	6.00			
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
RS														
Assess.	NR													
RS														
Cleanup	NR													2.00

Dataset Name: **FY 1999 Planning Data**

Page 10 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Idaho**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

Project **ID-ER-102 / Test Reactor Area Remediation**

Report Number: **GEN-01b**

Print Date: **3/10/2000**

HQ ID: **0165**

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				
RS														
Assess.	NR									21.00				
RS														
Cleanup	NR									21.00				
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
INEL	0122		TRA-06 \ WAG 2 Comp RI/FS Including: TRA Chemical Waste Pond (TRA-701)	Liquid Surface Impoundments/Evaporation Ponds / Pits	1998	1998	12/22/1997	2000	2000		1991	N		Y
INEL	0134		TRA-03A \ TRA WARM-WASTE LEACH POND (TRA-758) [TRA-03A]	Liquid Surface Impoundments/Sumps	1998	1998	12/22/1997	2000	2000		1991	N		Y
INEL	0136		TRA-04 \ TRA WARM-WASTE RETENTION BASIN (TRA-712) [TRA-04]	Liquid Surface Impoundments/Holding Ponds	1998	1998	12/22/1997	1998	1998	12/22/1997	1991	N		Y
INEL	0138		TRA-07 \ TRA SEWAGE TRMT PLNT(TRA-624)& SLUDGE PIT(TRA-732)	Waste/Pits	1998	1998	12/22/1997	1998	1998	12/22/1997	1991	N		Y
INEL	0139		TRA-08 \ TRA COLD WASTE DISPOSAL POND (TRA-702) [TRA-08]	Liquid Surface Impoundments/Holding Ponds	1998	1998	12/22/1997	2000	2000		1991	N		Y
INEL	0144		TRA-13 \ TRA FINAL SEWAGE LEACH PONDS (2) BY TRA-732 [TRA-13]	Liquid Surface Impoundments/Holding Ponds	1998	1998	12/22/1997	2000	2000		1991	N		Y
INEL	0146		TRA-15 \ TRA HOT WASTE TANKS #2,#3,#4 AT TRA-613 [TRA-15]	Tanks/Underground Storage Tanks	1998	1998	12/22/1997	2000	2000		1991	N		Y
INEL	0150		TRA-19 \ TRA RAD TANKS 1&4 AT TRA-630, REPLACED BY TANKS 1,2,3,4	Tanks/Underground Storage Tanks	1998	1998	12/22/1997	2035	2035		1991	N		Y
INEL	0172		TRA-41 \ TRA Oil Contaminated French	Liquid Surface	1998	1998	12/22/1997	1998	1998	12/22/1997	1994	N		Y

Dataset Name: **FY 1999 Planning Data**

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

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
			Drain (TRA 653)	Impoundments/Sumps			7			7				
INEL	0422		TRA-34 \ TRA NORTH STORAGE AREA [TRA-34]	Spills and Leaks/Surface Spills	1998	1998	12/22/1997	1998	1998	12/22/1997	1991	N		Y
INEL	0769		Hot Tree Site.	/	1998	1998	12/22/1997	1998	1998	12/22/1997		Y		
INEL	0770		ETR Stack.	/	1998	1998	12/22/1997	1998	1998	12/22/1997		Y		
INEL	0771		Diesel Unloading Pit.	/	1998	1998	12/22/1997	1998	1998	12/22/1997		Y		
INEL	0772		TRA-BCA \ TRA Brass Cap Area.	/	1998	1998	12/22/1997	2035	2035			N		
INEL	0773		TRA-SCA \ TRA Sewage Leach Pond Berms and Soil Contamination Area.	/	1998	1998	12/22/1997	2000	2000			N		
INEL	3193		TRA-56\TRA ACID TRANSFER LINE FROM TRA-631 TO TRA-645	Spills and Leaks/Pipeline Leaks	2000	2000		2001	2001		1999	N		N
INEL	3194		TRA-57\ABANDONED BURIED DIESEL FUEL OIL LINE	Spills and Leaks/Pipeline Leaks	2000	2000		2001	2001		1999	N		N
INEL	3195		TRA-58\ABANDONED BURIED FUEL OIL LINES	Spills and Leaks/Pipeline Leaks	2000	2000		2001	2001		1999	N		N
INEL	3196		TRA-59\ABANDONED BURIED ACID LINE TRA-631 TO TRA-671	Spills and Leaks/Pipeline Leaks	2000	2000		2001	2001		1999	N		N
INEL	3197		TRA-60\FENCED AREA NORTH OF TRA-608	Spills and Leaks/Surface Spills	2000	2000		2001	2001		2000	N		N
INEL	3198		TRA-61\GAMMA BUILDING (TRA-641) WARM WASTE LINE TO THE CATCH TANK VAULT (TRA-730)	Spills and Leaks/Pipeline Leaks	2000	2000		2001	2001		2000	N		N

Dataset Name: **FY 1999 Planning Data**

Page 12 of 14

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

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Idaho**
 Site Summary Level: **Idaho National Engineering and Environmental Laboratory**
 Project **ID-ER-102 / Test Reactor Area Remediation**

Report Number: **GEN-01b**
 Print Date: **3/10/2000**
 HQ ID: **0165**

Technology Needs

Site Need Code: ID-6.1.02
Site Need Name: Real-time Field Instrumentation for Characterization and Monitoring Soils and Groundwater.
Focus Area Work Package ID: SS-01 **Focus Area Work Package:** Characterization, Monitoring, Modeling and Analysis
Focus Area: SCFA **Agree with Technology Link:** Y
Benefits (Cost, Risk Reduction, Both): Cost

Technologies Cost Savings (in thousands of dollars) Range of Estimate

<u>Related CCP Milestones</u>	<u>Related Waste Streams</u>	<u>Agree?</u>	<u>Change?</u>
	02457: I7 - MLLW-Soil/Sludge	Y	N
	02432: W2.2 - LLW-Soil	Y	N
	02446: I4.1 - Treated LLW-Soil	Y	N
	02443: I2 - HAZ-Soil	Y	N
	02465: -	Y	N
	02493: T9 - HAZ-Soil	Y	N
	02486: -	Y	N
	02460: -	Y	N
	02459: -	Y	N
	02499: -	Y	N

Site Need Code: ID-S.1.04
Site Need Name: Real-time Field Instrumentation for Characterization and Monitoring Soils and Groundwater.
Focus Area Work Package ID: **Focus Area Work Package:**
Focus Area: **Agree with Technology Link:** Y
Benefits (Cost, Risk Reduction, Both): Cost

Dataset Name: **FY 1999 Planning Data**

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

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Idaho**

Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

HQ ID: **0165**

Project **ID-ER-102 / Test Reactor Area Remediation**

Technology Needs

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02457: I7 - MLLW-Soil/Sludge	Y	N
02456: I6.1 - MLLW-Sludge	Y	N
02448: I6 - MLLW-Sludge	Y	N
02432: W2.2 - LLW-Soil	Y	N
02446: I4.1 - Treated LLW-Soil	Y	N
02443: I2 - HAZ-Soil	Y	N
02489: -	Y	N
02465: -	Y	N
02493: T9 - HAZ-Soil	Y	N
02486: -	Y	N
02460: -	Y	N
02459: -	Y	N
02499: -	Y	N