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: **0167**

Project **ID-ER-104 / Central Facilities Area (CFA) Remediation**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

SUMMARY.....Waste Area Group 4 at the INEEL Central Facilities Area includes assessment and cleanup of 52 release sites and closure of a landfill and landfarm. The sites are divided into 13 Operable Units (OUs) and include landfills, underground and above ground storage tanks, french drains, soil contamination areas, a sewage treatment plant, and disposal ponds. Assessment of the sites includes field sampling and data evaluation to determine and document potential risks to human health and the environment. Sites that pose unacceptable risk will be remediated. Waste Area Group 4 implements the requirements defined in the INEEL Federal Facilities Agreement and Consent Order, the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and the 1995 Settlement Agreement.

PURPOSE: This project covers the assessment, cleanup, and remediation of the Central Facilities Area (CFA), Waste Area Group 4, at the Idaho National Engineering and Environmental Laboratory (INEEL), one of the ten waste area groups at the INEEL. It also addresses the closure of the INEEL Landfill and Landfarm.

Assessment of the CFA includes field sampling to determine the nature and extent of contamination including petroleum, radiological, organic, and metal constituents.

The feasibility of cleanup alternatives will also be decided. Sites that pose unacceptable risk to human health and the environment will be remediated.

This project directly supports completion of regulatory requirements with enforceable milestones defined in the INEEL Federal Facility Agreement and Consent Order, the CERCLA, and the 1995 Settlement Agreement which dictates that the Federal Facility Agreement and Consent Order will be carried out.

Completion of these activities support the goal of de-listing the INEEL from the National Priorities List (Superfund Site).

DEFINITION OF SCOPE: The cleanup of CERCLA sites at Waste Area Group 4 is governed by the INEEL Federal Facility Agreement and Consent Order, under which a Comprehensive Remedial Investigation/Feasibility Study (RI/FS) for Waste Area Group 4 will be completed. The decision-making process for integration of Remediation Program cleanup and facility operations is tied to the CERCLA Record of Decision, which includes stakeholder participation.

The activities remaining to be completed in accordance with the requirements of the Federal Facility Agreement and Consent Order include:

* OUs 4-10 and 4-12: Continue with long-term monitoring. The OU 4-12 Record of Decision also governs the activities that must be conducted following completion of the remedial action.
* OU 4-13: Complete the Remedial Investigation Baseline Risk Assessment, Remedial Investigation Report, Feasibility Study, Proposed Plan, and Record of Decision by late FY-99, complete a removal action for soil contamination sites at Waste Area Group 4 (Sites CFA -13, -15, -17, -42, and -

Project Description Narratives

47), including the removal action summary report.
* Waste Area Group 4 currently has 52 sites under evaluation in the OU 4-13 Comprehensive RI/FS.
* Closure of the INEEL Landfill and Landfarm will include characterization of the areas, evaluation of the appropriate data, design of the remediation, implementation of the remedial action, preparation of final reports, and maintenance and monitoring activities to ensure the remedial actions function as planned.

TECHNICAL APPROACH: Assessment of the 52 Waste Area Group 4 potential release sites has been or will be conducted in accordance with the INEEL`s Federal Facility Agreement and Consent Order and CERCLA. The assessment has, or will include the characterization of the potential release sites through the determination of the nature and extent of the potential release as well as an evaluation of the possible impacts 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, Remedial RI/FS, and Comprehensive RI/FSs. This process provided a bias towards action where remedial actions could be initiated early for sites posing a risk.

Assessment and Remedial Design/Remedial Action documents for all sites previously described will be developed in accordance with INEEL Federal Facility Agreement and Consent Order requirements and DOE orders, accelerated site cleanup actions, including CERCLA Non-Time Critical Removal Actions will be performed to the maximum extent practicable to expedite risk reduction and reduce project lifecycle costs. Data available from previous investigations are currently being evaluated in the Waste Area Group 4 Comprehensive RI/FS (OU 4-13), the final investigation at Waste Area Group 4. Upon completion of this investigation a Record of Decision will be prepared that will detail the remedial actions that must be performed at those sites identified as posing a risk to human health and/or the environment. This process will ultimately result in the de-listing of Waste Area Group 4 and the INEEL from the Superfund National Priorities List. The assumed remedial actions for Waste Area Group 4 sites include the following:

* Hot spot removal and shipment off-site to a commercial treatment facility of contaminated materials above risk based levels.
* Excavation and disposal on-site of contaminated materials above risk based levels.
* Covering, recontouring, capping, and drainage control for sites determined to pose a risk to human health and/or the environment.
* Maintenance and monitoring of areas determined to pose a risk to human health and/or the environment.
* Installation of groundwater and/or vadose zone monitoring wells.

Current or planned remediation activities are NOT dependent upon EM-50 science or technology development initiatives. However, development of these sciences or technologies could potentially result in schedule and/or cost savings.

There are no interdependencies of this scope of work with other national programs.

Landfill and Landfarm closures will be performed consistent with national industry standards. A typical sanitary landfill cap is assumed to be the remedial option of choice for the landfill. Landfarm soils will be sampled and released, if possible, for other uses such as backfilling excavations, etc.

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.

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Project Status in FY 2006:

It is assumed that as a result of this plan and the Environmental Management objectives, INEEL environmental restoration at Waste Area Group 4 will be completed and long range surveillance and maintenance activities will be ongoing. All known INEEL remediations will be completed, or ongoing, and the major sources of contamination will be under control. Surplus facilities that are currently in the Environmental Management Program will have been stabilized and/or demolished. By 2005, all known contaminated sites at Waste Area Group 4 will be remediated. Institutional controls, if necessary, will be in place for all Waste Area Group 4 sites by 2005.

The INEEL Landfill and Landfarm will be actively utilized during this period by routine INEEL operations.

Post-2006 Project Scope:

Long range maintenance and monitoring activities will continue. The long-term activities include but are not limited to: groundwater monitoring, soils analysis, air monitoring, moisture monitoring in the vadose zone, the maintenance of institutional controls, the repair and infilling of subsidences, etc. Five year CERCLA reviews will be conducted to ensure the objectives of the OU 4-13 Record of Decision are realized, as required by CERCLA.

Closure of the INEEL Landfill and Landfarm is expected to occur after 2035 because these facilities are integral to the continual operation of the INEEL.

Project End State

Long-range maintenance and monitoring activities as described above will continue. Five year CERCLA reviews will be conducted to ensure the objectives of the OU 4-13 Record of Decision are realized. The cleanup process end states described here will be refined through the Record of Decision process. No regulator or other stakeholder acceptance has been received.

Completion of the Waste Area Group 4 activities contained in the project baseline summary support the goal of delisting the INEEL from the National Priorities List. Cleanup levels and sites requiring cleanup will be determined based on the Comprehensive Remedial Investigation Baseline Risk Assessment and negotiations with the regulatory agencies. Areas of contaminated media not excavated and/or treated/disposed will be monitored under institutional controls for 100 years. These areas are assumed to remain under industrial (federal) use for 100 years.

Long range maintenance and monitoring activities for the Landfill and Landfarm will continue upon completion of their remedial actions.

A conceptual vision of the end state in the year 2095 for the INEEL and each of the major facility areas has been defined. These end states have not been agreed upon by the regulators, stakeholders, or Tribal Nations.

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 Remediation 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 RD/RA projects. All INEEL Remediation Program cost estimates have been developed using sound technical and planning principles, and are accompanied

Project Description Narratives

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-01 through the lifecycle of the project are 2.1% compounded annually.

The cost estimates associated with the project baseline summary are based on completing the enforceable requirements identified in the 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 landfill and landfarm complex 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 Central Facilities Area include low level radiological constituents, organic contaminates, petroleum products, inorganic compounds, and sanitary waste. During remedial actions and maintenance and monitoring activities there will also be a number of industrial safety and industrial hygeine related hazards to address such as slips, trips, and falls; lifting; working on elevated structures; moving equipment; inhalation of dusts; temperature extremes; etc. There may also be some safety concerns associated with the areas proposed to be capped because these areas may be subject to subsidence. Consequently during the remediation of these areas it will be important to observe areas of depression.

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, 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

Project Description Narratives

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.

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

PBS Comments:

None

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 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.

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		

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Project **ID-ER-104 / Central Facilities Area (CFA) Remediation**

General PBS Information

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

Project Identification Information

DOE Project Manager: C. Hathaway

DOE Project Manager Phone Number: 208-526-4049

DOE Project Manager Fax Number: 208-526-0598

DOE Project Manager e-mail address: HATHAWCA@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)	21,207	1,679	22,886	2,216	5,323	2,222	1,897	646	1,153	1,677	4,176	5,690	2,690	425	312
PBS Baseline (constant 1999 dollars)	19,964	1,266	21,230	2,216	5,323	2,222	1,897	646	1,123	1,599	3,901	5,206	2,410	373	268
PBS EM Baseline (current year dollars)	21,207	1,679	22,886	2,216	5,323	2,222	1,897	646	1,153	1,677	4,176	5,690	2,690	425	312
PBS EM Baseline (constant 1999 dollars)	19,964	1,266	21,230	2,216	5,323	2,222	1,897	646	1,123	1,599	3,901	5,206	2,410	373	268

	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)	318	272	252	148	186	206	228	69	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 Baseline (constant 1999 dollars)	268	224	204	117	139	138	138	38	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	318	272	252	148	186	206	228	69	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	268	224	204	117	139	138	138	38	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: 9/30/2002

Current Projected End Date of Project: 9/30/2027

Explanation of Project Completion Date Difference (if applicable):

Consistency with lifecycle cost module required inclusion of long term surveillance and monitoring.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars): 19,176 **Actual 1997 Cost:** 5,323 **Actual 1998 Cost:** 1,897

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars): 11,956 **Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):** 323

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Project Reconciliation

Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	12,279

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 (+):	4,512	Lifecycle costs increased as a result of detailed schedule and cost estimate analysis
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	16,791	
Additional Amount to Reconcile (+):	1	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	**16,792**	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Completed Assessments of Release Sits (20)	W4RSFA99				9/30/1999						
Completed Release Sites (3)	W4RSFC02				9/30/2002						
Completed Release Sites (8)	W4RSFC99				9/30/1999						
Completed Release Sites (9)	W4RSFC03				9/30/2003						
OU 4-12 Draft RI/FS ROD Sent by DOE-ID to EPA/IDHW for Review	VLEP010		7/31/1995	7/31/1995		7/11/1995	Y				
OU 4-12 Draft RI/FS Report Sent by DOE-ID to EPA/IDHW for Review	VLEP024		9/30/1994	9/30/1994		8/26/1994	Y				
OU 4-13 Dft RI/FS ROD Sent by DOE-ID to EPA/IDHW for Review and C	VMEP010		7/1/1999	7/1/1999	7/1/1999		Y				
OU 4-13 Draft RI/FS Report Sent by DOE-ID to	VMEP024		9/30/1998	9/30/1998		9/25/1998	Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
EPA/IDHW for Review											
OU 4-13 Draft RI/FS SOW Sent by DOE-ID to EPA/IDHW for Review	VMEP037		8/31/1996	8/31/1996		6/28/1996	Y				
OU 4-13 Draft RI/FS WP Sent by DOE-ID to EPA/IDHW for Review	VMEP039		1/31/1997	1/31/1997		11/27/1996	Y				
Project Start			10/1/1996								
Project Complete			9/30/2027								
OU 4-13 Draft RD/RA SOW sent BY DOE-ID to EPA/IDHW for review			12/29/1999								
OU4-13 Draft RD/RA Work Plan sent by DOE-ID to EPA/IDHW for review			6/30/2000								
OU 4-13 Draft RD/RA Report sent by DOE-ID to EPA/IDHW for review			7/31/2004								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Completed Assessments of Release Sits (20)	W4RSFA99									Y	
Completed Release Sites (3)	W4RSFC02									Y	
Completed Release Sites (8)	W4RSFC99									Y	
Completed Release Sites (9)	W4RSFC03									Y	
OU 4-12 Draft RI/FS ROD Sent by DOE-ID to EPA/IDHW for Review	VLEP010										
OU 4-12 Draft RI/FS Report Sent by DOE-ID to EPA/IDHW for Review	VLEP024										

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
OU 4-13 Dft RI/FS ROD Sent by DOE-ID to EPA/IDHW for Review and C	VMEP010										
OU 4-13 Draft RI/FS Report Sent by DOE-ID to EPA/IDHW for Review	VMEP024										
OU 4-13 Draft RI/FS SOW Sent by DOE-ID to EPA/IDHW for Review	VMEP037										
OU 4-13 Draft RI/FS WP Sent by DOE-ID to EPA/IDHW for Review	VMEP039										
Project Start				Y							
Project Complete					Y						
OU 4-13 Draft RD/RA SOW sent BY DOE-ID to EPA/IDHW for review											
OU4-13 Draft RD/RA Work Plan sent by DOE-ID to EPA/IDHW for review											
OU 4-13 Draft RD/RA Report sent by DOE-ID to EPA/IDHW for review											

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	Planne 200
RS														
Assess.	NR	16.00	0.00	16.00	3.00		4.00			16.00				
RS														

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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	Planne 20(
RS														
Cleanup	NR	14.00	5.00	19.00		3.00	7.00			11.00				
Tech.														
Deployed	Ntd	1.00	0.00	1.00								1.00		

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												
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
RS										
Assess.	NR									23.00
RS										
Cleanup	NR							5.00		23.00
Tech.										
Deployed	Ntd									1.00

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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	0266		CFA-01 \ CFA LANDFILL I [CFA-01]	Waste/Landfills	1995		7/11/1995	1997		9/25/1997	1991	N		Y
INEL	0267		CFA-02 \ CFA LANDFILL II [CFA-02]	Waste/Landfills	1995		7/11/1995	1997		9/25/1997	1991	N		Y
INEL	0268		CFA-03 \ CFA LANDFILL III [CFA-03]	Waste/Landfills	1995		7/11/1995	1997		9/25/1997	1991	N		Y
INEL	0269		CFA-04 \ CFA POND (CFA-674) [CFA-04]	Liquid Surface Impoundments/Holding Ponds	2000	2000		2070	2070		1991	N		Y
INEL	0271		CFA-06 \ CFA LEAD SHOP (OUTSIDE AREAS) [CFA-06]	Spills and Leaks/Surface Spills	2000	2000		2000	2000		1991	N		Y
INEL	0272		CFA-07 \ CFA FRENCH DRAIN E/S OF CFA-633 [CFA-07]	Liquid Surface Impoundments/Sumps	2000	2000		2000	2000		1991	N		Y
INEL	0273		CFA-08 \ CFA SEWAGE PLANT (CFA-691), SEPTIC TANK (CFA-716)	Tanks/Septic Tanks	2000	2000		2070	2070		1991	N		Y
INEL	0274		CFA-10 \ CFA TRANSFORMER YARD OIL SPILLS [CFA-10]	Spills and Leaks/Surface Spills	2000	2000		2070	2070		1991	N		Y
INEL	0275		CFA-12 \ CFA FRENCH DRAINS (2) (CFA-690) [CFA-12]	Liquid Surface Impoundments/Sumps	2000	2000		2070	2070		1991	N		Y
INEL	0280		CFA-17 \ CFA FIRE DEPARTMENT TRAINING AREA, BERMED [CFA-17]	Liquid Surface Impoundments/Seepage Basins	2000	2000		2000	2000		1991	N		Y
INEL	0285		CFA-22 \ CFA FUEL OIL TANK AT CFA-640	Tanks/Underground Storage Tanks	1999		3/12/1997	2002		3/12/1997	1991	N		Y
INEL	0289		CFA-26 \ CFA 760 PUMP STATION FUEL SPILL [CFA-26]	Spills and Leaks/Surface Spills	2000	2000		2070	2070		1991	N		Y
INEL	0305		CFA-42 \ CFA TANK FARM PUMP STATION SPILLS [CFA-42]	Spills and Leaks/Surface Spills	2000	2000		2000	2000		1991	N		Y
INEL	0306		CFA-43 \ CFA LEAD STORAGE AREA [CFA-43]	Spills and Leaks/Surface Spills	2000	2000		2000	2000		1991	N		Y
INEL	0307		CFA-44 \ CFA SPRAY PAINT BOOTH	Liquid Surface	2000	2000		2000	2000		1991	N		Y

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: **0167**

Project **ID-ER-104 / Central Facilities Area (CFA) 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 (CFA-654) [CFA-44]	Impoundments/Sumps										
INEL	0308		CFA-45 \ CFA Underground Storage Tank	Tanks/Underground Storage Tanks	1999		3/12/1997	2002		3/12/1997	1993	N		Y
INEL	0309		CFA-46 \ CFA Cafeteria Oil Tank Spill (CFA-721)	Tanks/Underground Storage Tanks	2000	2000		2000	2000		1994	N		Y
INEL	0310		CFA-47 \ Fire Station Chemical Disposal	Spills and Leaks/Surface Spills	2000	2000		2000	2000		1994	N		Y
INEL	0311		CFA-48 \ Chemical Washout South of CFA-633	Spills and Leaks/Surface Spills	1999		3/12/1997	2002		3/12/1997	1994	N		Y
INEL	0312		CFA-49 \ CFA Hot Laundry Drain Pipe	Waste/Trenches / Outfalls	2000	2000		2000	2000		1994	N		Y
INEL	0313		CFA-50 \ Shallow Well East of CFA-654	Waste/Wells (injection, monitoring, etc.)	1999		3/12/1997	1999		3/12/1997	1994	N		Y
INEL	0753		CFA-51 \ CFA Drywell at North End of CFA-650	/	2000	2000		2000	2000		1996	N		
INEL	0754		CFA-52 \ Diesel Fuel Tank at Building CFA-13 Bunkhouse (CFA-730)	/	2000	2000		2000	2000		1996	N		

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**

Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	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

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

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Project **ID-ER-104 / Central Facilities Area (CFA) Remediation**

Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	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

Technology Deployments

	Deployment Year		
Deployment Status	**Planned**	**Forecast**	**Actual Date**
Technology Name: Segmented Gate System			
Potential Deployment	2002	2002	