Project Baseline Summary Report

Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Albuquerque** Print Date: **3/9/2000**

Site Summary Level: **Sandia National Laboratories** HQ ID: **0135**

Project **AL018 / Sandia ER Project**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: Because of its mission, Sandia operated a number of testing and evaluation locations, as well as participating in interagency testing activities between 1949 and the present. These testing activities created legacy environmental releases at the Albuquerque site (183 sites), at Tonopah Test Range (TTR), Nevada (14 sites), the Kauai Test Facility (KTF), Hawaii (3 sites), the Salton Sea Test Base (SSTB), California (1 site), Sandia Livermore, California (23 sites), and miscellaneous other offsite locations across the United States and some extra-territorial locations (18 sites). Additionally, over the last year, some sites have been subdivided so the total sites within the scope of the Sandia ER Project is 250. Also, 101 areas of concern are being addressed by the project. It must be noted that table of releases sites does not include the entire list of 250 sites. However, it is inclusive of all remaining work and some of the more significant past accomplishments. The sites not included in the table have been archived and it has not been deemed cost effective to populate table with this archived data.

The general classes of sites include landfills, firing sites, septic tanks, leach fields, salvage yards, and underground storage tanks. Environmental media contaminated included soil and groundwater. The types of contaminants include hazardous, radioactive and mixed wastes, such as acids and solvents, metals, petroleum hydrocarbons, explosives, tritium and depleted uranium.

In 1989, the Environmental Restoration Project was initiated at Sandia to assess and remediate the environmental releases under both RCRA, CERCLA, and applicable state and local statutes. Through this project, environmental, worker and public risk will be reduced to negotiated levels with both the public, institutional and regulatory stakeholders.
The original project scope encompassed all release site/locations described in the Purpose of Project section. These include 183 sites at SNLN, 23 sites at SNLC, 14 sites at Tonopah Test Range, Nevada, 3 sites at the Kauai Test Facility, Hawaii, 1 site at Salton Sea Test Base, California, and 18 off-site locations throughout the United States and some extra-territorial locations.

Additions to the project scope include: (1) All treatment, storage and disposal functions, including the life cycle cost of processes and infrastructure (Temporary Unit/Corrective Action Management Unit), and (2) approximately 100 small miscellaneous potential release sites related to discharge pits, french drains and septic systems. It is anticipated that No Further Action (NFA) will be the outcome of investigating these additional potential release sites, and the regulatory agencies have not requested that they be added to the corrective action permit unless an environmental release above acceptable risk levels is demonstrated.

Deletions from the project scope to date include: (1) Transfer of all remaining remedial action for the 14 TTR sites to DOE/NV, and
(2) Transfer of all remaining remedial action for the SSTB site to DOD/Department of the Navy

Accomplishments through FY 98 include 90% of remedial actions for the Albuquerque site, 100% of all KTF assessment/remedial actions (3 sites) and 100% of all off-site location assessment/remedial actions.

The Fuel Oil Spill (FOS)is the remaining ER site in California. The cleanup strategy for the FOS involves a bioremediation process that is currently being implemented under a pilot study. A determination was made at the end of FY 96 to consult with the regulatory authorities on the FOS

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remediation effort and the effectivness of the pilot study in reducing aquifer contiamination, and to evaluate the need to move to full-scale remediation or proceed to NFA. It was decided that a full scale remedial effort was not warranted. Based upon a risk assessment, the site has been submitted for NFA.

Technical Approach: The Sandia ER Project technical approach was revised in 1994 to accelerate and economize cleanups performed under the HSWA module of the facility's Resource Conservation and Recovery Act (RCRA) permit. Additional revisions to the technical and programmatic approaches were made in 1995 to further expedite the cleanup process. They now include the following key elements:

· A site-based approach to cleanup, as opposed to the former organization, which was based on OUs only.
· Eliminating entire OUs from the RCRA Facility Investigation (RFI)/CMS process through NFAs and Voluntary Corrective Measures(VCMs).
· Use of future land-use assumptions established in 1996 through the Citizens' Adivisory Board recommendation process in conjunction with preliminary risk assessments to enable earlier decisions regarding NFA or remediation approaches.
· Use of VCMs as the initial and primary approach to site remediation.
· Accomplishment of site characterization, cleanup, and verification within a one-pass operation.
· Implementation of a screening sampling effort to assist in site characterization, risk assessment, site close-out efforts, and waste management.

Future land use assumptions based on relative risk and proposed minimum cleanup levels have been established as a result of the DOE Future Use Options process, which includes review by the public, stakeholders, and regulators. The land use assumptions have been included in preliminary risk assessments conducted in FY 95-96 for each non-NFA site. Completion of the initial risk assessments enabled determinations to be made regarding whether individual sites can be proposed for NFA or fast-tracked to the remediation phase, as the alternative to completing the full RFI, CMS, and corrective measures implementation (CMI) process.

Site characterization, cleanup, and verification are accomplished in a one-pass operation whenever possible. The ER Project will be able to remove most SWMUs and AOCs from the RFI/CMS process through NFA approvals and VCMs. This approach is possible through identification and verification of the large number of potential release sites that pose little or no risk, and subsequent NFA proposals. A small-scale field sampling effort in late FY 95 involved collection of a limited number of samples at sites remaining to be characterized. Analyses were used to reduce uncertainty about waste volumes and types; help in planning and establishment of a TU and a CAMU; perform preliminary risk assessments; help develop characterization strategies; and better define the potential waste streams from all remedial activities. This approach has been successful at several ER sites, including the TA III Gas Cylinder Disposal Pit, TA II Calibration Pits, ER Site #232 Outfall, ER Site #6 Gas Cylinder Disposal Pit, and the site-wide surface radiation VCM.

Historically, the Sandia WM Department has been responsible for Sandia's waste TSD functions. The ER Project, however, will overwhelm the existing WM capability to support normal programmatic activities at Sandia. Therefore, the ER Project collaborated with WM to establish a TU for initial storage of ER hazardous wastes and a CAMU for longer term TSD management of hazardous waste for the duration of the ER Project. Both the TU and CAMU are permitted facilities. The TU permit modification to the existing HSWA Part B permit was submitted and approved in FY 96. The application for the CAMU permit modification to the existing HSWA Part B permit was also submitted to the EPA. Permit approval for the CAMU was obtained in late FY 97. The ER Project technical approach to waste management, in collaboration with the Sandia WM program, involves implementation of the following steps:

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· Increase public and regulatory participation in the ER Project waste management strategy.
· Establish a TU.
· Establish a CAMU.
· Refine estimates of waste types and volumes.
· Implement on-site waste minimization prior to transport.
· Develop interim options for waste disposal.

Characterization of waste contaminants and refined estimates of waste volumes to be generated by the ER cleanup activities continue to be developed to assure accurate waste-management planning.

Waste minimization will be implemented on-site prior to transport of any waste to either an off-site treatment and disposal facility or to the CAMU. Waste minimization efforts include sorting and segregation of waste types based on treatment, storage, or disposal requirements.

Technology Development:

The Sandia/NM ER Project is generally using existing technologies for its characterization and remediation activities. Two exceptions have been a collaboration with EM-50 to conduct a pilot-scale demonstration of the Thermally Enhanced Vapor Extraction System at the Chemical Waste Landfill, and the arid region landfill cap designs that have been developed (at both SNL and LANL) so that they can be used to meet RCRA compliance requirements.

Project Status in FY 2006:

The 2006 end-state of the SNL ER Project is described in the mission statement of the Project:

"The mission of the Sandia Environmental Restoration Project is to complete all necessary corrective actions (assessment and remediation) at ER sites in the most expeditious and cost-effective manner, while minimizing worker, public health and environmental risks, satisfying public concern, and complying with all applicable federal, state, and local laws."

If the project is provided sufficient funding, it is intended that by 2005, all identified SNL ER sites will have been remediated and associated waste disposed of in the CAMU or appropriate off-site location.

After 2006, there will remain some surveillance and maintenance functions associated with the vadose zone and/or groundwater at the CWL, MWL, and CAMU. These activities will be incorporated into the routine ES&H functions for the Laboratories. There is also some potential for additional long term monitoring of groundwater in technical areas I, II and III, but more assessment work is currently under way to firmly establish or eliminate this potential need.

Post-2006 Project Scope:

Project Description Narratives

The post-2006 scope is limited to long-term monitoring, maintenance and surveillance (until 2036) at three locations; the Mixed Waste Landfill, Chemical Waste Landfill and the CAMU disposal cell (the latter, only if needed based on final closure risk). However, these activities will be included under the SNL ES&H function under current planning assumptions.

Project End State

The planned 2006 end-state of the SNL ER Project is described in the mission statement of the Project:

"The mission of the Sandia Environmental Restoration Project is to complete all necessary corrective actions (assessment and remediation) at ER sites in the most expeditious and cost-effective manner, while minimizing worker, public health and environmental risks, satisfying public concern, and complying with all applicable federal, state, and local laws."

It is intended that by the end of 2005, all identified SNL ER sites will have been remediated and associated waste disposed of in the CAMU or appropriate off-site location. All ER sites except the chemical waste landfill, mixed waste landfill, and the CAMU disposal cell will be released for reapplication by the Defense Programs (DP) landlord. The two landfills and the disposal cell will be placed under long-term institutional control with fencing and signage, and will be monitored for at least 30 years, per RCRA requirements.

Site completion milestone is defined as delivery of the site "No Further Action" Proposal to the regulatory agency.

Cost Baseline Comments:

The baseline represented in this Plan was based known or anticipated changes which were pending on subsequent change proposals. It reflects the current total project cost, schedule and scope. The original approved baseline Estimate At Completion (EAC) or Total Project Cost (TPC) in 1994 was $455M, with completion scheduled for FY 14. This has been reduced progressively through two reengineering cycles and implementation of a highly streamlined technical, administrative and regulatory approach. The current EAC or TPC is now approximately $389M with "to go" cost being less than $202M. Through radical reengineering efforts, total project variances were reset twice (FY 94 and FY 95). The current baseline costs are categorized as remedial action only, since assessment and remediation are performed concurrently. This also reflects the B&R code separation. The changes resulting from reengineering produced non-sequitar baseline technical scope, cost and schedule reductions, as well as changes to regulatory approaches and, therefore, carrying forward cost and schedule variances from that time was not meaningful. Consequently, the variances reported in this plan represent the cumulative variances from the last rebaseline of the project. Project cost after FY06 and through FY36 is entirely Long Term Survielance & Maintenance.

Because of the highly streamlined approaches and aggressive schedule assumptions incorporated into the current baseline, programmatic risk has increased, but is accounted for in the contingency and management reserve. Such aggressive assumptions include, but are not limited to; regulatory review times that the regulatory agencies have not been historically able to achieve; the operation of a CAMU with consequent reduction in off-site disposal costs for hazardous wastes; and no extensive re-assessment or remediation after a voluntary cleanup(VCM) and/or NFA submittal.

The current baseline is escalated for FY 00 and out years at the directed rate. Total project contingency is likely to be less than 10%, but because the SNL ER Project has been operating at high programmatic risk, contingency has been pushed out in time so that nearly all of the available budget dollars, except management reserve, are committed to planned work (if new scope is added during the year, planned work is pushed out and the freed

Project Description Narratives

dollars are used as contingency).

Costs for installation support costs such as security, roads, ES&H, and other "landlord" functions have all been "projectized" through the load rates applied at the resource cost level, because the Sandia ER Project exists within the Laboratory structure, and is only a small part of the overall Sandia mission.

Safety & Health Hazards:

The SNL ER project must identify, characteize, and manage hazards of virtually all conceivable forms relevant to environmental restoration, to include; radiological, chemical, industrial, construction, fire, explosion, etc. The process of identifying, characterizing and managing hazards is detailed in the Sandia ES&H manual. Work processes and documentation tier to the ES&H manual. For ER activities, the results of the process are incorporated into an activity-specific Health and Safety Plan (HASP). The HASP is a comprehensive document for managing, mitigating and preventing safety and health hazards.

Safety & Health Work Performance:

The SNL ER Project uses operational readiness reviews prior to beginning any clean up activity. During field operations, daily tailgate S&H briefings are employed to ensure that special risks are highlighted and to reemphasize that S&H is of primary importance while performing ER work, including stopping work if a safety issue becomes evident to any worker. The ER field ops.staff are required to have all relevant S&H training, including refreshers, as a requirement of their empolyment. In addition to the baseline costs itemized for S&H, there are training and operational S&H expenses associated with field operations or SNL employment (directly or as an ER contractor) that are not specifically itemized. These costs, which are embedded in the overall cost of doing business and thus difficult to quantify, are significant--perhaps making up 5-10% of the total cost of ER work.

PBS Comments:

The Sandia ER Project fully incorporated the one-pass VCM approach and revised work logic in FY 95-96. These approaches eliminated numerous steps in the traditional RCRA/HSWA process, combines the assessment and remediation phases (for VCMs), and accelerates the process for removing sites through Class 3 permit modifications.

The unified technical approach for site investigations includes site characterization, future land use scenarios, baseline risk assessments, NFA determinations, and site closures. This approach maximizes the number of site closures, streamlines the decision-making process, and results in substantial cost reductions. A key element of this approach is to examine the possibility of an early closure (either NFA or VCM) after each RFI/CMS step.

Public and regulatory participation in the ER Project waste management strategy has been actively solicited. The CAMU Working Group was active throughout the planning process and interfaced with the newly-formed CAB during the process. The CAMU Working Group submitted a final report recommending implementation of a TU/CAMU facility, but several members of the group have maintained involvement with the process. Comments supporting the CAMU were received at a public hearing held in July 1996. Submittal to the Environmental Protection Agency (EPA) for a permit to construct the CAMU was made following the public hearing.. Permit approval was received in FY 97.

Baseline Validation Narrative:

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The Sandia National Laboratories, Environmental Restoration Baseline (technical scope, cost, and schedule) was validated in February 1992 by the Department of Energy Albuquerque Operations Office when the baseline was formally reviewed. Since that time, the scope, cost and schedule have been modified and these modifications reviewed through baseline change control. Additional program and cost reviews such as EM-40 Cost Quality Management Assessments (March 1992), Indepedent Cost Evaluation (March 1993), and Major Systems Acquisition (May 1993) reviews have been conducted. In additional, an AL Enviornmental Restoration Division (ERD) Baseline review was conducted (November 1996 and August 1997 and August 1998).

General PBS Information

Project Validated? Yes **Date Validated:** 2/28/1992

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/1/1999

FEDPLAN Project? Yes

Drivers:

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

Project Identification Information

DOE Project Manager: Elizabeth Oms

DOE Project Manager Phone Number: 505-845-7862

DOE Project Manager Fax Number: 505-845-4710

DOE Project Manager e-mail address: eoms@doeal.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

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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)	224,944	28,360	253,304	20,312	19,619	30,632	27,547	27,260	19,435	36,705	31,600	25,000	19,000	10,000	5,000
PBS Baseline (constant 1999 dollars)	214,620	17,505	232,125	20,312	19,619	30,632	27,547	27,260	18,924	35,005	29,517	22,871	17,025	8,776	4,298
PBS EM Baseline (current year dollars)	224,944	28,360	253,304	20,312	19,619	30,632	27,547	27,260	19,435	36,705	31,600	25,000	19,000	10,000	5,000
PBS EM Baseline (constant 1999 dollars)	214,620	17,505	232,125	20,312	19,619	30,632	27,547	27,260	18,924	35,005	29,517	22,871	17,025	8,776	4,298

	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)	631	644	657	671	4,579	4,798	4,398	5,322	5,436	1,224	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	531	531	531	531	3,405	3,216	2,656	2,897	2,666	541	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	631	644	657	671	4,579	4,798	4,398	5,322	5,436	1,224	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	531	531	531	531	3,405	3,216	2,656	2,897	2,666	541	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%

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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: 9/30/2031

Current Projected End Date of Project: 9/30/2035

Explanation of Project Completion Date Difference (if applicable):

Requirement for 30 years of GW monitoring begins with completion of remedial action, which was delayed as a result of the combination of additional scope cited below combined with funding constraints. Last years 2031 date included 30 years of LTS&M activities.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	104,130	**Actual 1997 Cost:**	19,619	**Actual 1998 Cost:**	27,547
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	56,964	**Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):**			1,538
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	58,502				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	118,596	Increase Landfills complexity, volume, & contamination; plus add'l reqmt's at other sites.
Cost Growth Associated with Scope Previously Reported (+):	4,364	A reprice for a new cost loading structure which increased projected cost.
Cost Reductions Due to Science & Technology Efficiencies (-):	280	Deployment of Segmented Gate Technology reduced cost of treatment.
Subtotal:	181,182	
Additional Amount to Reconcile (+):	-1	FY98 uncosted carryover $2,630K not reflected in FY99 cost, per guidance.
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	**181,181**	

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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
Complete B&R Remedial Action-phase	MSH002		2/27/2004		7/16/2004						
Start Long-Term Surv.& Maint.			10/1/2004								
Complete Field Work Site74 LE VCM			2/27/2004								
Start of Final HSWA Permit Mod.			8/12/2005								
End of Obtain Final HSWA Mod			2/27/2006								
Submit Site 2 NFA to NMED			7/29/2003								
SNL complete CAMU Phase II construction.			8/31/1999						Y		
SNL send Chemical Waste Landfill hazardous waste to CAMU for Storage.			3/31/1999						Y		
Complete Long-Term Surv.& Maint.			9/30/2035								
Submit final site NFA to NMED.			9/30/2005								
Project Start Date			9/1/1990								

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
Complete B&R Remedial Action-phase	MSH002										Completion of field effort for final HSWA permited site.
Start Long-Term Surv.& Maint.											Begining of the required 30 year ground water monitoring after all OU sites have acheived closure.
Complete Field Work Site74 LE VCM											Complete the field work portion of the critical path excavation for the ER Project & the Chemical Waste Landfill.
Start of Final HSWA Permit Mod.											Sumit the permit mod to remove the

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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
											final site from the HSWA Permit
End of Obtain Final HSWA Mod			Y				3	3	1		NMED grants final mod removing the last site from the permit
Submit Site 2 NFA to NMED											Submit NFA for the Classified Waste Landfill
SNL complete CAMU Phase II construction.		Y					1	1	1		
SNL send Chemical Waste Landfill hazardous waste to CAMU for Storage.											
Complete Long-Term Surv.& Maint.					Y	Y					Completion of LTS&M Phase of the project.
Submit final site NFA to NMED.		Y									Submission of final No Further Action documentation to the New Mexico Environment Division.
Project Start Date				Y							Date project started.

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	2.00	0.00	2.00	214.00	1.00	2.00				1.00			
RS														
Cleanup	NR	67.00	0.00	67.00	164.00	21.00	22.00	12.00	11.00	10.00	6.00	4.00	3.00	
Fac.														
Decom.- Assess.	NF	0.00	0.00	0.00	1.00									

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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(
Fac.														
Decom- Cleanup	NF	0.00	0.00	0.00	1.00									
MLLW														
Storage	M3							0.02	0.00	0.00				
MLLW														
Comm. Disp.	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Storage	M3							482.00	0.00	0.00	0.00	0.00		
LLW														
Ship to DOE Disp.	M3	1,706.00	0.00	1,706.00	0.00		0.00	378.00	821.00	77.00	312.00	116.00	2.00	
Rem. Waste														
Disposed	M3	26,171.00	0.00	26,171.00	0.00		0.00	30.00	6,302.00	970.00	14,186.00	4,576.00	107.00	
Tech.														
Deployed	Ntd	2.00	0.00	2.00					2.00					

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												

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Fac.													
Decom- Cleanup	NF												
MLLW													
Storage	M3												
MLLW													
Comm. Disp.	M3												
LLW													
Storage	M3												
LLW													
Ship to DOE Disp.	M3												
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
RS										
Assess.	NR								20.00	237.00
RS										
Cleanup	NR								4.00	237.00
Fac.										
Decom.- Assess.	NF									1.00
Fac.										
Decom- Cleanup	NF									1.00

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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
MLLW										
Storage	M3									
MLLW										
Comm. Disp.	M3									4.00
LLW										
Storage	M3									
LLW										
Ship to DOE Disp.	M3									507.00
Rem. Waste										
Disposed	M3									23,710.00
Tech.										
Deployed	Ntd								3.00	3.00

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
SNLC	0001		N/A \ Fuel Oil Spill & HSWA SWMU	Spills and Leaks/Pipeline Leaks	1996	1998	9/30/1996	2000	2000	9/30/1999		N		N
SNLC	0002		N/A \ Fuel Oil Spill IRM	Surface and Groundwater/Groundwater Plumes						9/30/1994		N		N
SNLC	0003		N/A \ Fuel Oil Spill Landfarm	Dispersed Surface Contamination/Land Farms						9/30/1995		N		N
SNLC	0004		N/A \ Navy Landfill & HSWA SWMU	Waste/Miscellaneous Surface Debris	1996		9/30/1996	1997		11/30/1996		N		N
SNLC	0005		1.4.02.4.1.03 \ Miscellaneous Sites & HSWA SWMU Arroyo ?	Waste/Miscellaneous Surface Debris	1992		9/30/1992			9/30/1992		N		N

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SNLC	0006		1.4.02.4.1.03 \ Miscellaneous Sites & HSWA SWMU Former Trash Dump	Waste/Miscellaneous Surface Debris						9/30/1992		N		N
SNLC	0007		1.4.02.4.1.03 \ Miscellaneous Sites & HSWA SWMU (Old) Fire Extinguisher Training Area	Waste/Miscellaneous Surface Debris						9/30/1992		N		N
SNLC	0008		1.4.02.4.1.03 \ Miscellaneous Sites & HSWA SWMU Bldg. 918/981 Decon Storage Area	Waste/Miscellaneous Surface Debris						9/30/1992		N		N
SNLC	0009		1.4.02.4.1.03 \ Miscellaneous Sites & HSWA SWMU Burn Pit	Waste/Miscellaneous Surface Debris						9/30/1992		N		N
SNLC	0010		1.4.02.4.1.03 \ Miscellaneous Sites New Fire Extinguisher Training Area	Waste/Miscellaneous Surface Debris						9/30/1992		N		N
SNLC	0011		N/A \ Trudell Auto Repair Service Station & HSWA SWMU	Waste/Miscellaneous Surface Debris						9/30/1991		N		N
SNLC	0012		N/A \ HSWA SWMU Monitor Pits & Tanks	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0013		N/A \ HSWA SWMU Bldg. 913	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0014		N/A \ HSWA SWMU Bldg. 916	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0015		N/A \ HSWA SWMU Bldg. 963	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0016		N/A \ HSWA SWMU Tritium Research Laboratory - Bldg. 986	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0017		N/A \ HSWA SWMU Navy Public Work Yard	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0018		N/A \ HSWA SWMU Navy Supply Dept. Tank & Drum Storage Area	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0019		N/A \ HSWA SWMU Sewer System	Waste/Miscellaneous Surface Debris						9/30/1993		N		N

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SNLC	0020		N/A \ HSWA SWMU Gasoline Storage & Dispensing Facilities	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLC	0021		N/A \ HSWA SWMU Incinerator Fuel Tank	Waste/Miscellaneous Surface Debris						9/30/1993		N		N
SNLN	0002		182 \ White Sands Missile Range (WSMR) Test Areas	Dispersed Surface Contamination/Above Ground Tests	1995		9/20/1995	1996		7/1/1996	1991	Y	Approved	N
SNLN	0003		199 \ AEC Storage Facility/Fort Hood, TX	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0005		201 \ AEC Storage Facility/Barksdale AFB, LA	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0006		202 \ AEC Storage Facility/Loring AFB, ME	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0007		203 \ AEC Storage Facility/Ellsworth AFB, SD	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0008		204 \ AEC Storage Facility/Fairchild AFB, WA	Above Ground Material / Waste/Storage Yards and Pads	1995		1/1/1996	1996		1/1/1996	1992	Y	Approved	Y
SNLN	0009		205 \ AEC Storage Facility/Travis AFB, CA	Above Ground Material / Waste/Storage Yards and Pads	1995		1/1/1996	1996		1/1/1996	1992	Y	Approved	Y
SNLN	0010		206 \ AEC Storage Facility/Westover AFB, MA	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0011		207 \ AEC Storage Facility/Yorktown Naval Weapons Station, VA	Above Ground Material / Waste/Storage Yards	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y

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				and Pads										
SNLN	0012		208 \ AEC Storage Facility/Lackland AFB, TX	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0013		209 \ AEC Storage Facility/Nellis AFB, NV	Above Ground Material / Waste/Storage Yards and Pads	1995		9/30/1996	1995		9/30/1995	1992	Y	Approved	Y
SNLN	0014		210 \ AEC Storage Facility/Seneca Army Depot, NY	Above Ground Material / Waste/Storage Yards and Pads	1995		1/1/1996	1996		1/1/1996	1992	Y	Approved	Y
SNLN	0015		243 \ Los Lunas Bombing Range, NM	Dispersed Surface Contamination/Above Ground Tests	1996		7/1/1996	1996		7/1/1996	1994	Y	Approved	N
SNLN	0016		244 \ Bernardo Test Site, NM	Dispersed Surface Contamination/Above Ground Tests	1995		7/1/1996	1996		7/1/1996	1994	Y	Approved	N
SNLN	0017		15 \ Trash Pits (Frustration Site)	Waste/Miscellaneous Surface Debris	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	N
SNLN	0018		19 \ TRUPAK Boneyard Storage Area (NW End Old Aerial Cable)	Above Ground Material / Waste/Storage Yards and Pads	1996		9/30/1996	1997		9/26/1997	1987	N	Pending	Y
SNLN	0019		27 \ Bldg 9820 - Animal Disposal Pit (Coyote Springs)	Waste/Pits	1997		9/20/1995	1997		9/20/1995	1987	Y	Pending	Y
SNLN	0020		28B \ Mine shafts	Miscellaneous/Other	1995	1995	9/20/1995		2002		1987	N		Y
SNLN	0021		28C \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0022		28D \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0023		28E \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0024		28F \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y

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SNLN	0025		28G \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0026		28H \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0027		28I \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0028		28J \ Mine shafts	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Approved	Y
SNLN	0029		58 \ Coyote Canyon Blast Area	Dispersed Surface Contamination/Above Ground Tests	1996	1999	9/30/1996	2002	2002		1987	N		Y
SNLN	0030		66 \ Boxcar Site	Dispersed Surface Contamination/Above Ground Tests	1996		9/30/1996	1997		10/3/1996	1987	N	Pending	Y
SNLN	0031		67 \ Frustration Site	Miscellaneous/Other	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N
SNLN	0032		8 \ Open Dump (Coyote Canyon Blast Area)	Above Ground Material / Waste/Debris Piles	1996	1996	9/30/1996	2002	2002		1987	N		Y
SNLN	0033		82 \ Old Aerial Cable Site Scrap	Above Ground Material / Waste/Scrap Yards	1996	1998	9/30/1996	2000	2000		1987	N		Y
SNLN	0034		87 \ Building 9990 Firing Site	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996	1996	2/1/1996	2001	2001		1987	N		Y
SNLN	0035	R	11 \ Explosive Burial Mounds	/	1996		10/2/1995	1997			1987	Y		N
SNLN	0036		20 \ Schoolhouse Mesa Burn Site	Waste/Burn Pits	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0037		21 \ Metal Scrap (Coyote Springs)	Above Ground Material / Waste/Scrap Yards	1997		10/1/1996	1997		10/1/1994	1987	Y	Pending	N
SNLN	0038		22 \ Storage/Burn (West of DEER)	Above Ground Material / Waste/Storage Yards and Pads	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	N
SNLN	0039		47 \ Unmanned Seismic Observatory	Waste/Trenches / Outfalls	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N

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SNLN	0040		57A \ Workman Site: Firing Site	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996	1998	9/30/1996	1998	1998	9/17/1998	1987	N		Y
SNLN	0041		57B \ Workman Site: Target Area	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996	1996	4/1/1995	1998	1998		1987	N		N
SNLN	0042		61A \ Schoolhouse Mesa Test Site: Blast Area	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1998	1998	9/17/1998	1987	N		Y
SNLN	0043		61B \ Schoolhouse Mesa Test Site: Cratering Area	Dispersed Surface Contamination/Firing Ranges and Ordnance	1995		9/20/1995	1996		9/2/1996	1987	Y	Approved	N
SNLN	0044		61C \ Schoolhouse Mesa Test Site: Schoolhouse Bldg	Buildings & Equipment/Other Buildings	1996	1996	9/30/1996	1999	1999	5/19/1999	1987	N		N
SNLN	0045		62 \ Greystone Manor Site	Dispersed Surface Contamination/Above Ground Tests	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0046		68 \ Old Burn Site	Waste/Burn Pits	1996	1997	11/17/1995	1999	1999		1987	N		Y
SNLN	0047		69 \ Old Borrow Pit	Waste/Pits	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0048	R	70 \ Explosives Test Pit (Water Towers)	/	1996		11/24/1995	1997			1987	N		N
SNLN	0049		71 \ Moonlight Shot Area	Dispersed Surface Contamination/Above Ground Tests	1997		10/1/1994	1997		10/1/1994	1987	Y	Pending	Y
SNLN	0050		88A \ Firing Site: Ranchhouse	Dispersed Surface Contamination/Firing Ranges and Ordnance	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	Y

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SNLN	0051		88B \ Firing Site: Instrumentation Pole	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996		2/27/1996	1997		9/26/1997	1987	N		Y
SNLN	0052		9 \ Burial Site/Open Dump (Schoolhouse Mesa)	Waste/Miscellaneous Surface Debris	1996	1998	9/30/1996	2000	2000		1987	N		Y
SNLN	0053		10 \ Burial Mounds (Bunker Area North of Pendulum Site)	Above Ground Material / Waste/Debris Piles	1996	1996	9/30/1996	1998	1999	9/17/1998	1987	N		Y
SNLN	0054		12A \ Burial Site/Open Dump: Open Dump (Lurance Canyon)	Waste/Pits	1995		10/4/1994	1997		5/30/1997	1987	N	Pending	Y
SNLN	0055		12B \ Burial Site/Open Dump: Buried Debris in Graded Area	Waste/Pits	1996	1998	9/30/1996	1998	1998	9/17/1998	1987	N		Y
SNLN	0056		13 \ Oil Surface Impoundment (Lurance Canyon Burn Site)	Liquid Surface Impoundments/Evaporation Ponds / Pits	1996		2/21/1996	1997		8/1/1997	1987	N	Pending	Y
SNLN	0057		225 \ AEC Storage Facility/Kirtland AFB	Above Ground Material / Waste/Storage Yards and Pads	1996		9/20/1995	1996		9/20/1995	1992	Y	Approved	Y
SNLN	0058		59 \ Pendulum Site	Waste/Trenches / Outfalls	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N
SNLN	0059		60 \ Bunker Area (North of Pendulum Site)	Dispersed Surface Contamination/Above Ground Tests	1999	1999	9/30/1996	2000	2000		1987	N		Y
SNLN	0060		63A \ Balloon Test Area: PDSP Site	Dispersed Surface Contamination/Above Ground Tests	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	Y
SNLN	0061		63B \ Balloon Test Area: Balloon/Helicopter Site	Dispersed Surface Contamination/Above Ground Tests	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	Y
SNLN	0062		64 \ Gun Site (Madera Canyon)	Dispersed Surface	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N

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				Contamination/Firing Ranges and Ordnance										
SNLN	0063		65A \ Lurance Canyon Explosive Test Site: Small Debris Mound	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1999	1999	8/31/1999	1987	N		Y
SNLN	0064		65B \ Lurance Canyon Explosive Test Site: Primary Detonation Area	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1999	1999	8/31/1999	1987	N		Y
SNLN	0065		65C \ Lurance Canyon Explosive Test Site: Secondary Detonation Area	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1999	1999	8/31/1999	1987	N		Y
SNLN	0066		65D \ Lurance Canyon Explosive Test Site: Near Field Dispersion Area	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1999	1999	5/19/1999	1987	N		Y
SNLN	0067		65E \ Lurance Canyon Explosive Test Site: Far Field Dispersion Area	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1998	1999	9/17/1998	1987	N		Y
SNLN	0068		65F*DELETE* (Tabs Test Area)Site was not separated from 65B as planned. Included in 65B NFA.	/	1996	1998	9/30/1996				1987	N		Y
SNLN	0069		72 \ Operation Beaver Site	Dispersed Surface Contamination/Above Ground Tests	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	N
SNLN	0070		81A \ New Aerial Cable Site: Catcher Box/Sled Track	Buildings & Equipment/Equipment	1996	1999	9/30/1996	2000	2000		1987	N		N
SNLN	0071		81B \ New Aerial Cable Site: Impact Pad	Buildings & Equipment/Other Buildings	1996	1999	9/30/1996	2000	2000		1987	N		N
SNLN	0072		81C \ New Aerial Cable Site: Former Burial Location	Waste/Pits	1996	1999	9/30/1996	1999	1999	5/19/1999	1987	N		N

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SNLN	0073		81D \ New Aerial Cable Site: Northern Cable Area	Waste/Miscellaneous Surface Debris	1996	1999	9/30/1996	2000	2000		1987	N		N
SNLN	0074		81E \ New Aerial Cable Site: Gun Impact Area	Waste/Miscellaneous Surface Debris	1996	1999	9/30/1996	2000	2000		1987	N		N
SNLN	0075		81F \ New Aerial Cable Site: Scrap Yard	Above Ground Material / Waste/Storage Yards and Pads	1996	1999	9/30/1996	2000	2000		1987	N		N
SNLN	0076		92 \ Pressure Vessel Test Site (Coyote Canyon Blast Area)	Dispersed Surface Contamination/Above Ground Tests	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N
SNLN	0077		72 \ Madera Canyon Rocket Launcher Pad A	Dispersed Surface Contamination/Above Ground Tests	1996		8/28/1995	1996		8/28/1995	1987	Y	Pending	N
SNLN	0078		93B \ Madera Canyon Rocket Launcher Pad B	Dispersed Surface Contamination/Above Ground Tests	1996		8/28/1995	1996		8/28/1995	1987	Y	Pending	N
SNLN	0079		93C \ Madera Canyon Rocket Launcher Pad C	Dispersed Surface Contamination/Above Ground Tests	1996		8/28/1995	1996		8/28/1995	1987	Y	Pending	N
SNLN	0080		94A \ Lurance Canyon Burn Site: Above-Ground Tanks	Waste/Burn Pits	1996	1999	9/30/1996	1998	1998	9/17/1998	1987	N		Y
SNLN	0081		94B \ Lurance Canyon Burn Site: Debris/Soil Mound Area	Waste/Burn Pits	1996	1999	9/30/1996	2001	2001		1987	N		Y
SNLN	0082		94C \ Lurance Canyon Burn Site: Bomb Burner Area and Discharge Line	Waste/Burn Pits	1996	1999	9/30/1996	2002	2002		1987	N		Y
SNLN	0083		94D \ Lurance Canyon Burn Site: Bomb Burner Discharge Pit	Waste/Burn Pits	1996	1999	9/30/1996	1999	1999	5/19/1999	1987	N		Y
SNLN	0084		94E \ Lurance Canyon Burn Site: Small Surface Impoundment	Waste/Burn Pits	1996	1999	9/30/1996	1999	1999	8/31/1999	1987	N		Y

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SNLN	0085		94F \ Lurance Canyon Burn Site: LAARC Discharge Pit	Waste/Burn Pits	1996	1999	9/30/1996	2001	2001		1987	N		Y
SNLN	0086		94G \ Lurance Canyon Burn Site: Scrap Yard	Waste/Burn Pits	1996	1999	9/30/1996	2001	2001		1987	N		Y
SNLN	0087		103 \ Scrap Yard (Bldg. 9939)	Above Ground Material / Waste/Scrap Yards	1996	1999	9/30/1996	1998	1998	7/1/1998	1987	N		Y
SNLN	0088		106 \ Explosives-Contaminated Drains (Bldgs 9939,9960,9965,9967)	Liquid Surface Impoundments/Sumps	1991		4/1/1992	1992		4/1/1992	1987	Y	Approved	N
SNLN	0089		108 \ Firing Site (Bldg. 9940)	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996	1996	2/22/1996	1998	1998	7/1/1998	1987	N		Y
SNLN	0090	R	109 \ Firing Site (Bldg. 9956)	/	1996		4/11/1996	1997			1987	N	Pending	Y
SNLN	0091		110 \ Thunder Range (Miscellaneous)	Dispersed Surface Contamination/Above Ground Tests	1992		6/1/1992	1997		12/31/1996	1987	N	Approved	N
SNLN	0092	R	112 \ Explosive Contaminated Sump (Building 9956)	/	1996		6/3/1996	1997			1987	N	Pending	Y
SNLN	0093	R	115 \ Firing Site (Bldg. 9930)	/	1996		4/1/1996	1997			1987	Y	Pending	Y
SNLN	0094		117 \ Trenches (Bldg. 9939)	Waste/Trenches / Outfalls	1996	1999	9/30/1996	2000	2000		1987	N		Y
SNLN	0095		14 \ Burial Site (Bldg. 9920)	Waste/Pits	1996	1998	9/30/1996	1998	1999	7/1/1998	1987	N		Y
SNLN	0096		162 \ Bldg. 9962 Seepage	Liquid Surface Impoundments/Seepage Basins	1993		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0097		17 \ Scrap Yards/Open Dump (Thunder Range)	Above Ground Material / Waste/Scrap Yards	1995	1997	9/30/1995	1998	1998	7/1/1998	1987	N		Y
SNLN	0098	R	191 \ Equus Red	/	1995		1/1/1995	1997			1991	Y	Pending	Y
SNLN	0099	R	193 \ Sabotage Test Area	/	1996		5/1/1996	1997			1992	N	Pending	Y

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SNLN	0100		194 \ General Purpose Heat Source Test Area	Dispersed Surface Contamination/Above Ground Tests	1995		9/20/1995	1995		9/20/1995	1992	Y	Pending	Y
SNLN	0101		242 \ Sabotage Test Box (Thunder Range)	Dispersed Surface Contamination/Above Ground Tests	1994		2/28/1995	1995		2/28/1995	1994	Y	Approved	N
SNLN	0102		38 \ Oil Spills (Bldg. 9920)	Spills and Leaks/Surface Spills	1997		1/15/1996	1997		7/19/1996	1987	Y	Pending	N
SNLN	0103		39 \ Oil Spill - Solar Facility	Spills and Leaks/Surface Spills	1995			1995		8/28/1995	1987	Y	Pending	N
SNLN	0104		53 \ Building 9923 Storage Igloo	Buildings & Equipment/Other Buildings	1995			1995		8/28/1995	1987	Y	Pending	Y
SNLN	0105		54 \ Pickax Site (Thunder Range)	Dispersed Surface Contamination/Above Ground Tests	1996		10/2/1995	1996		10/3/1996	1987	N	Pending	N
SNLN	0106		55 \ Red Towers Site (Thunder Range)	Dispersed Surface Contamination/Above Ground Tests	1996	1998	9/30/1996	1999	1999	5/19/1999	1987	N		Y
SNLN	0107		56 \ Old Thunderwells (Thunder Range)	Dispersed Surface Contamination/Above Ground Tests	1996		2/12/1996	1997		10/3/1996	1987	N	Pending	Y
SNLN	0108		6 \ Gas Cylinder Disposal Pit (Building 9966)	Waste/Pits	1995		4/1/1995	1997		10/3/1996	1987	N	Pending	N
SNLN	0109		6A \ Gas Cylinder Disposal Pit	Waste/Pits	1995		4/1/1995	1997		10/3/1996	1987	N	Pending	N
SNLN	0110		85 \ Firing Site (Building 9920)	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996	1998	9/30/1996	1998	1998	9/17/1998	1987	N		Y
SNLN	0111	R	86 \ Firing Site (Bldg. 9927)	/	1996		1/15/1996	1997			1987	Y	Pending	Y

Project Baseline Summary Report

Data Source: **EM CDB**

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SNLN	0112	R	89 \ Shock Tube Site (Thunder Range)	/	1996		3/4/1996	1997			1987	N	Pending	Y
SNLN	0113	R	90 \ Beryllium Firing Site (Thunder Range)	/	1996		9/30/1996	1997			1987	Y	Pending	Y
SNLN	0114		91 \ Lead Firing Site (Thunder Range)	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996	1996	2/2/1996	2003	1999		1987	N		Y
SNLN	0115	R	1 \ Radioactive Waste Landfill & Chemical Disposal Pits	/	1995		9/30/1995	1997			1987	N		Y
SNLN	0116		113 \ Area II Firing Sites	Dispersed Surface Contamination/Firing Ranges and Ordnance	1994		10/1/1994	1995		10/1/1994	1987	Y	Pending	N
SNLN	0117		114 \ Explosive Burn Pit (Area II)	Waste/Burn Pits	1995		6/1/1995	1996		7/19/1996	1987	Y	Pending	N
SNLN	0118		135 \ Bldg. 906 Septic System	Tanks/Septic Tanks	1994		10/1/1994	1995		10/1/1994	1987	Y	Pending	Y
SNLN	0119		136 \ Bldg. 907 Septic System	Tanks/Septic Tanks	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	Y
SNLN	0120		159 \ Bldg. 935 Septic System	Tanks/Septic Tanks	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	Y
SNLN	0121		165 \ Bldg. 901 Septic System	Tanks/Septic Tanks	1994		10/1/1994	1995		10/1/1994	1987	Y	Pending	N
SNLN	0122		166 \ Bldg. 919 Septic System	Tanks/Septic Tanks	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	Y
SNLN	0123		167 \ Bldg. 940 Septic System	Tanks/Septic Tanks	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	N
SNLN	0124		2 \ Classified Waste Landfill (TA-II)	Waste/Landfills	1999	1999	9/30/1996	2003	2003		1987	N		Y
SNLN	0125		3 \ Chemical Disposal Pit (TA-II)	Waste/Pits	1994		10/1/1994	1994		10/1/1994	1987	Y	Pending	N
SNLN	0126		43 \ Radioactive Material Storage Yd (TA-II)	Above Ground Material / Waste/Storage Yards and Pads	1996		10/1/1994	1996		10/1/1994	1987	Y	Pending	Y
SNLN	0127		44 \ Decontamination Site & Uranium Calibration Pits (TA-II)	Waste/Pits	1994		10/1/1994	1994		10/1/1994	1987	Y	Pending	Y
SNLN	0128		48 \ Bldg. 904 Septic System (TA-II)	Tanks/Septic Tanks	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	Y

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SNLN	0129		100 \ Building 6620 HE Sump/Drain (TA-III)	Liquid Surface Impoundments/Sumps	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N
SNLN	0130		102 \ Radioactive Disposal (East of TA-III)	Waste/Pits	1996		9/30/1996	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0131		105 \ Mercury (Bldg 6536) (TA-III)	Waste/Miscellaneous Surface Debris	1994		10/1/1994	1995		10/1/1994	1987	Y	Approved	N
SNLN	0132		107 \ Explosive Test Area (Southeast TA-III)	Dispersed Surface Contamination/Above Ground Tests	1996		9/30/1996	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0133		111 \ Building 6715 Sump/Drains (TA-III)	Liquid Surface Impoundments/Sumps	1996		9/30/1996	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0134	R	18 \ Concrete Pad	/	1996		1/1/1996	1997			1987	Y	Pending	Y
SNLN	0135		188 \ Bldg. 6597 Above Ground Containment Spill Tank, (TA-V)	Tanks/Above Ground Storage Tanks	1994		10/1/1994	1995		10/1/1994	1987	Y	Approved	N
SNLN	0136		195 \ Experimental Test Pit	Waste/Pits	1994		10/1/1994	1995		10/1/1994	1992	Y	Pending	Y
SNLN	0137		196 \ Bldg 6597 Cistern (TA-V)	Tanks/Underground Storage Tanks	1996		7/3/1996	1996		7/3/1996	1992	Y	Pending	N
SNLN	0138		240 \ Short Sled Track	Dispersed Surface Contamination/Above Ground Tests	1996		7/3/1996	1996		7/3/1996	1993	Y	Pending	Y
SNLN	0139		241 \ Storage Yard	Above Ground Material / Waste/Storage Yards and Pads	1996		7/3/1996	1996		7/3/1996	1993	Y	Pending	Y
SNLN	0140		26 \ Burial Site (West of TA-III)	Waste/Trenches / Outfalls	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0141		275 \ TA-V Seepage Pits	Liquid Surface Impoundments/Seepage Basins	1996	1997	7/3/1996	1998	1998	9/17/1998	1995	Y	Pending	N
SNLN	0142		31 \ Electrical Transformer Oil Spill (TA-III)	Spills and	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N

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				Leaks/Surface Spills										
SNLN	0143		34 \ Centrifuge Oil Spill (TA-III)	Spills and Leaks/Surface Spills	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N
SNLN	0144		35 \ Vibration Facility Oil Spill (TA-III)	Spills and Leaks/Surface Spills	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N
SNLN	0145		36 \ Oil Spill - HERMES (TA-V)	Spills and Leaks/Surface Spills	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N
SNLN	0146		37 \ PROTO Oil Spill (TA-V)	Spills and Leaks/Surface Spills	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N
SNLN	0147		51 \ Building 6924 Pad, Tank, Pit	Waste/Ditches	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	N
SNLN	0148		78 \ Gas Cylinder Disposal Pit (TA-III)	Waste/Pits	1994		4/14/1994	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0149		83 \ Long Sled Track (TA-III)	Dispersed Surface Contamination/Above Ground Tests	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0150		84 \ Gun Facilities (TA-III)	Dispersed Surface Contamination/Firing Ranges and Ordnance	1996		7/3/1996	1996		7/3/1996	1987	Y	Pending	Y
SNLN	0151		76 \ Mixed Waste Landfill (TA-III)	Waste/Landfills	1996		8/30/1996	1996		9/30/1996	1987	Y	Pending	Y
SNLN	0152		74 \ Chemical Waste Landfill	Waste/Landfills	1996	1996	9/30/1996	2003	2003		1987	N		N
SNLN	0153		168 \ Bldg. 901 UST (TA-II)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0154		169 \ Bldg. 910 UST (TA-II)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0155		170 \ Bldg. 911 UST (TA-II)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0156		171 \ Bldg. 912 UST (TA-II)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N

Project Baseline Summary Report

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SNLN	0157		172 \ Bldg. 888 UST (TA-I)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0158		173 \ Bldg. 6525 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0159		174 \ Bldg. 6581 UST (TA-IV)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0160		175 \ Bldg. 6588 UST (TA-IV)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0161		176 \ Bldg. 605 UST (TA-I)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0162		178 \ Bldg. 6587 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0163		179 \ Bldg. 7570 UST	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0164		180 \ Bldg. 6503 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0165		181 \ Bldg. 6500 UST (TA-V)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1991	Y	Approved	N
SNLN	0166		212 \ Bldg. 876 UST (TA-I)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0167		213 \ Bldg. 880 UST (TA-I)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0168		214 \ Bldg. 6505 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0169		215 \ Bldg. 6536 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0170		216 \ Bldg. 6596 UST (TA-V)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N

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SNLN	0171		217 \ Bldg. 6630 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0172		218 \ Bldg. 6720 UST (TA-III)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0173		219 \ Tank 7 Burn Site (Lurance Canyon)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0174		220 \ Bldg. 9832 UST (Coyote Test Field)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0175		221 \ Bldg. 9970 UST (Coyote Test Field)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0176		222 \ Igloo Area Bldg 6018 UST (Tijeras Arroyo)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0177		223 \ Igloo Area Bldg 6028 UST (Tijeras Arroyo)	Tanks/Underground Storage Tanks	1994		9/30/1994	1994		5/24/1994	1992	Y	Approved	N
SNLN	0178		4 \ LWDS Surface Impoundments	Liquid Surface Impoundments/Holding Ponds	1995		9/29/1995	1995		9/29/1995	1987	Y	Pending	Y
SNLN	0179		5 \ LWDS Drainfield (TA-V)	Liquid Surface Impoundments/Seepage Basins	1995		9/29/1995	1995		9/29/1995	1987	Y	Pending	Y
SNLN	0180		52 \ LWDS Holding Tanks (TA-V)	Liquid Surface Impoundments/Evaporation Ponds / Pits	1995		9/29/1995	1995		9/29/1995	1987	Y	Pending	Y
SNLN	0181		101 \ Explosive Contaminated Sumps, Drains (Bldg 9926)	Liquid Surface Impoundments/Sumps	1995		10/2/1995	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0182		116 \ Building 9990 Septic System	Tanks/Septic Tanks	1995		10/2/1995	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0183		137 \ Bldg. 6540/6542 Septic System	Tanks/Septic Tanks	1996		7/19/1996	1997		12/31/1996	1987	N	Pending	Y

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SNLN	0184		138 \ Bldg. 6630 Septic System	Tanks/Septic Tanks	1995		7/19/1996	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0185		139 \ Bldg. 9964 Septic System	Tanks/Septic Tanks	1994		10/1/1994	1995		10/1/1994	1987	Y	Approved	Y
SNLN	0186		140 \ Bldg. 9965 Septic System	Tanks/Septic Tanks	1996		12/31/1996	1996		10/2/1995	1987	Y	Pending	N
SNLN	0187		141 \ Bldg. 9967 Septic System	Tanks/Septic Tanks	1995		2/10/1996	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0188		142 \ Bldg. 9970 Septic System	Tanks/Septic Tanks	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N
SNLN	0189		143 \ Bldg. 9972 Septic System	Tanks/Septic Tanks	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N
SNLN	0190		144 \ Bldg. 9980 Septic System	Tanks/Septic Tanks	1996		9/30/1996	1997		5/1/1997	1987	N	Pending	Y
SNLN	0191	R	145 \ Bldg. 9981/9982 Septic Systems	/	1996		9/30/1996	1997			1987	N	Pending	Y
SNLN	0192		146 \ Bldg. 9920 Drain System	Tanks/Septic Tanks	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	N
SNLN	0193	R	147 \ Bldg. 9925 Septic Systems	/	1996		9/30/1996	1997			1987	N	Pending	Y
SNLN	0194		148 \ Bldg. 9927 Septic System	Tanks/Septic Tanks	1995		9/20/1995	1995		9/20/1995	1987	Y	Pending	Y
SNLN	0195		149 \ Bldg. 9930 Septic System	Tanks/Septic Tanks	1995		10/1/1995	1996		7/19/1996	1987	Y	Pending	N
SNLN	0196		150 \ Bldg. 9939/9939A Septic Systems	Tanks/Septic Tanks	1995		9/30/1995	1997		12/31/1996	1987	N	Pending	Y
SNLN	0197		151 \ Bldg. 9940 Septic System	Tanks/Septic Tanks	1995		10/1/1995	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0198		152 \ Bldg. 9950 Septic System	Tanks/Septic Tanks	1996		10/1/1995	1997		12/31/1996	1987	N	Pending	Y
SNLN	0199		153 \ Bldg. 9956 Septic Systems	Tanks/Septic Tanks	1996		10/1/1995	1997		12/31/1996	1987	N	Pending	Y
SNLN	0200	R	154 \ Bldg. 9960 Septic Systems	/	1995		9/30/1995	1997			1987	N	Pending	Y
SNLN	0201		160 \ Bldg. 9832 Septic System	Tanks/Septic Tanks	1995		6/26/1996	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0202		161 \ Bldg. 6636 Septic System	Tanks/Septic Tanks	1995		10/1/1995	1996		7/19/1996	1987	Y	Pending	Y
SNLN	0203		49 \ Bldg. 9820 Drains	Waste/Trenches /	1995		9/19/1995	1996		7/19/1996	1987	Y	Pending	N

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				Outfalls										
SNLN	0204		104 \ PCB Spill, Computer Facility	Waste/Miscellaneous Surface Debris	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0205		185 \ Bldg 863 (TA-I)	Spills and Leaks/Surface Spills	1993		11/1/1993	1993		11/1/1993	1987	Y	Approved	N
SNLN	0206		186 \ Building 859 TCE Disposal	Spills and Leaks/Surface Spills	1996		9/30/1996	1997		10/3/1996	1991	N	Pending	N
SNLN	0207	R	187 \ TA-I Sanitary Sewer Lines	/	1996		9/30/1996	1997			1987	N	Pending	Y
SNLN	0208		190 \ Steam Plant Tank Farm	Tanks/Above Ground Storage Tanks	1996	1999	9/30/1996	2002	2002		1991	N		N
SNLN	0209		192 \ TA I Waste Oil Tank	Tanks/Above Ground Storage Tanks	1996		9/30/1996	1997		10/3/1996	1992	N	Pending	N
SNLN	0210		211 \ Bldg. 840 Former UST 840-1 (TA-I)	Tanks/Underground Storage Tanks	1996		9/30/1996	1997		10/3/1996	1992	N	Pending	N
SNLN	0211	R	226 \ Old Acid Waste Line	/	1996		9/30/1996	1997			1992	N	Pending	N
SNLN	0212		25 \ Burial Site (South of TA-I)	Miscellaneous/Other	1994		10/1/1994	1995		10/1/1994	1987	Y	Approved	N
SNLN	0213		276 \ Building 829X Sump	Liquid Surface Impoundments/Sumps	1996		9/30/1996	1996		6/30/1996	1995	N	Pending	Y
SNLN	0214		30 \ PCB Spill (Reclamation Yard)	Above Ground Material / Waste/Scrap Yards	1996	1998	9/30/1996	2001	2001		1987	N		N
SNLN	0215		32 \ Steam Plant Oil Spill (TA-I)	Spills and Leaks/Surface Spills	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0216		33 \ Motor Pool Oil Spill	Spills and Leaks/Surface Spills	1996		9/30/1996	1997		10/3/1996	1987	N	Pending	N
SNLN	0217		41 \ Building 838 Mercury Spill (TA-I)	Spills and Leaks/Surface Spills	1994		10/1/1994	1994		10/1/1994	1987	Y	Approved	N
SNLN	0218	R	42 \ Building 879 Water Treatment Facility	/	1996		2/2/1996	1997			1987	N	Pending	N

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SNLN	0219		73 \ Bldg 895 Hazardous Waste Repackaging/Storage	Above Ground Material / Waste/Storage Yards and Pads	1994		10/1/1994	1995		10/1/1994	1987	Y	Approved	N
SNLN	0220	R	96 \ Storm Drain System	/	1996		9/30/1996	1997			1987	N	Pending	Y
SNLN	0221		97 \ Still Photo Lab (Bldg 802)	Buildings & Equipment/Other Buildings	1993		12/1/1993	1993		12/1/1993	1987	Y	Approved	N
SNLN	0222		98 \ Bldg. 863 TCA Photochemical Releases	Spills and Leaks/Surface Spills	1996	1998	9/30/1996	2000	2000		1987	N		N
SNLN	0223		99 \ Catch Boxes (TA-I)	Buildings & Equipment/Other Buildings	1993		12/1/1993	1994		12/1/1993	1987	Y	Approved	N
SNLN	0224		16 \ Open Dumps (Arroyo del Coyote)	Above Ground Material / Waste/Debris Piles	1996	1996	9/30/1996	1999	2000	8/31/1999	1987	N		Y
SNLN	0225		227 \ Bunker 904 Outfall (Tijeras Arroyo)	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	Y
SNLN	0226		228A\ Centrifuge Dump Site	/	1996	1996	9/30/1996	2001	2001	8/31/1999	1993	N		Y
SNLN	0227		229 \ Storm Drain System Outfall	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	N
SNLN	0228		23 \ Disposal Trenches (Near Tijeras Arroyo)	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	N
SNLN	0229		230 \ Storm Drain System Outfall	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	N
SNLN	0230		231 \ Storm Drain System Outfall	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	N
SNLN	0231		232 \ Storm Drain System Outfall	Waste/Trenches / Outfalls	1995		8/31/1995	1997		8/1/1997	1993	N	Pending	N
SNLN	0232		233 \ Storm Drain System Outfall	Waste/Trenches /	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	N

Project Baseline Summary Report

Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Albuquerque** Print Date: **3/9/2000**

Site Summary Level: **Sandia National Laboratories** HQ ID: **0135**

Project **AL018 / Sandia ER Project**

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
				Outfalls										
SNLN	0233		234 \ Storm Drain System Outfall	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	N
SNLN	0234		235 \ Storm Drain System Outfall	Waste/Trenches / Outfalls	1995		8/28/1995	1995		8/28/1995	1993	Y	Pending	N
SNLN	0235		40 \ Oil Spill (6000 Igloo Area)	Spills and Leaks/Surface Spills	1995		8/28/1995	1995		8/28/1995	1987	Y	Pending	N
SNLN	0236		45 \ Liquid Discharge (Behind TA-IV)	Waste/Trenches / Outfalls	1996		9/30/1996	1997		9/26/1997	1987	N		N
SNLN	0248		228B \ Centrifuge Dump Site	/	2001	2001		2001	2001			N		N

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
SNLN	0241		N/A \Sandia Engineering Reactor-Transfered to Moly99 Project	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2000		9/30/1996						9/30/1996	1987	Y		Y

Technology Needs

Site Need Code: AL-09-02-01-SC

Site Need Name: Long-term Site Monitoring System

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): Both

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

Technology Needs

Verification and Monitor System for Subsurface Barrier

Long-Term Surface Barriers

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N
	00232: ER-2 - HAZ Soils & Debris	Y	N

Site Need Code: AL-09-02-02-SC

Site Need Name: Environmental Restoration (ER) Site Hazard Information System

Focus Area Work Package ID: SS-11 **Focus Area Work Package:** Validation,Verification, & Long-Term Monitoring of Containment & Treatment

Focus Area: SCFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Both

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

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N

Site Need Code: AL-09-02-03-SC

Site Need Name: Landfill/ Surface Covers

Focus Area Work Package ID: SS-11 **Focus Area Work Package:** Validation,Verification, & Long-Term Monitoring of Containment & Treatment

Focus Area: SCFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Both

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

Capillary Barrier

Technology Needs

Long-Term Surface Barriers

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N

Site Need Code: AL-09-02-04-SC

Site Need Name: Natural Attenuation Protocols for Supporting Final Closure of Contaminated Sites

Focus Area Work Package ID: SS-11 **Focus Area Work Package:** Validation,Verification, & Long-Term Monitoring of Containment & Treatment

Focus Area: SCFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Alternative Landfill Cover Design	0	

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N
	00232: ER-2 - HAZ Soils & Debris	Y	N

Site Need Code: AL-09-02-05-SC

Site Need Name: Ecological Risk Transfer Factors

Focus Area Work Package ID: SS-01 **Focus Area Work Package:** Characterization, Monitoring, Modeling and Analysis

Focus Area: SCFA **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

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

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N

Technology Needs

Site Need Code: AL-09-02-06-SC

Site Need Name: A real-time tritium monitor is needed to support remediation, closure, and long-term monitoring of sites contaminated with tritium.

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): Both

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Tritium Analysis System		
In Situ Tritium Beta Detector		

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N

Site Need Code: AL-07-02-03-SC

Site Need Name: Low-Level Radioactive Waste Landfill Cap Design, Tritium Treatment/Removal Technology, In-Situ Vitrification, and Pressure Grouting

Focus Area Work Package ID: SS-04 **Focus Area Work Package:** Long-Lived Caps

Focus Area: SCFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Alternative Landfill Cover		
In Situ Vitrification Bottoms-up		
Innovative Grout (In Situ Stabilization)		
Landfill Assessment and Monitoring System		
Barriers and Post-Closing Monitoring		
In Situ Containment and Stabilization of Buried Waste		
In Situ Stabilization and Retrieval System		

Technology Needs

Monitor for Demonstrating the Effectiveness of Barrier Installation and Long-term Performance using Electrical Resistance Tomography

Long-Term Surface Barriers

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00235: ER-5 - LLW Soils & Debris	Y	N

Site Need Code: AL-09-01-27-SC-S

Site Need Name: Long-term Monitoring Sensor Technology

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?
	00613: LMWTG8 - Organic Debris	Y	N
	01426: ER-0 - Mixed Waste	Y	N

Site Need Code: AL-09-01-28-SC-S

Site Need Name: Scientific Basis for Vadose Zone Monitoring Systems

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: N

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?
	00613: LMWTG8 - Organic Debris	Y	N
	01426: ER-0 - Mixed Waste	Y	N

Site Need Code: AL-09-01-29-SC-S

Site Need Name: Natural Attenuation Confirmatory Data for Supporting Protocol Development

Focus Area Work Package ID: **Focus Area Work Package:**

Focus Area: **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Both

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

Site Need Code: AL-09-01-30-SC-S

Site Need Name: Accepted Ecological Transfer Factors to Support Analyses of Residual Risk

Focus Area Work Package ID: **Focus Area Work Package:**

Focus Area: **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

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

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00600: LLW-11 - Thorium	Y	N
	00594: LLW-20 - Septage	Y	N
	00235: ER-5 - LLW Soils & Debris	Y	N
	00602: LLW-13 - H3 Oil/Water	Y	N

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Albuquerque**

Site Summary Level: **Sandia National Laboratories**

Project **AL018 / Sandia ER Project**

Report Number: **GEN-01b**

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

HQ ID: **0135**

Technology Deployments

		Deployment Year		
Deployment Status		**Planned**	**Forecast**	**Actual Date**
Technology Name:	Alternative Landfill Cover			
Potential Deployment		1999	2000	
Technology Name:	Segmented Gate System			
Deployment Commitment		1999		
Technology Name:	Alternative Landfill Cover Design			