

General



DOE Albuquerque Operations Office Environmental Program Overview and Current Challenges



AL Environmental Projects and Operations

▲ - 22 UMTRA Sites Completed

Sandia National Labs/CA

Monticello Superfund Site

Los Alamos Nat'l Lab/NM

Sandia National Labs/NM

South Valley

■ Waste Management (DP) (ITL EM funded) Environmental Restoration

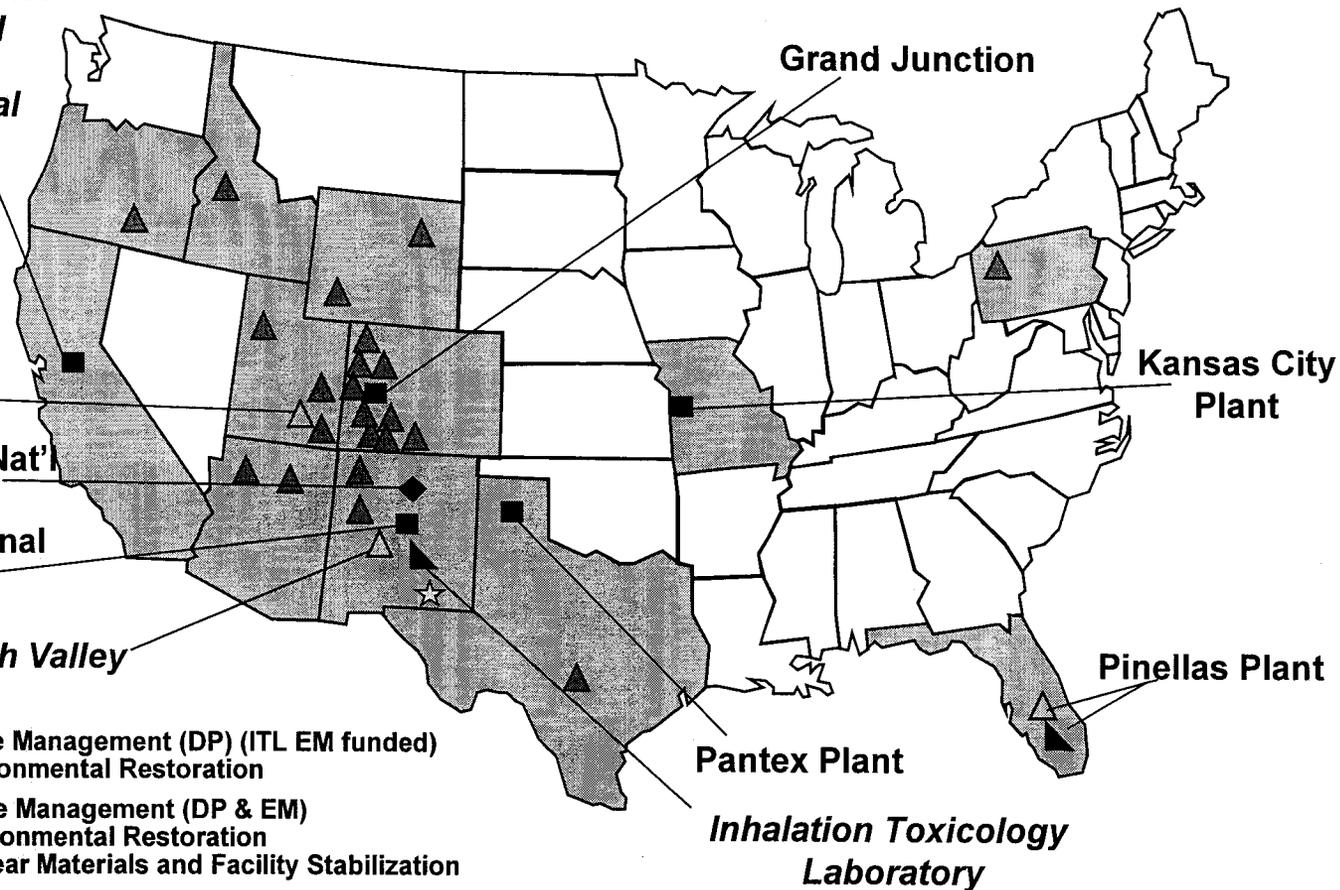
◆ Waste Management (DP & EM) Environmental Restoration Nuclear Materials and Facility Stabilization

▲ Commercialization of Site

☆ Waste Isolation Pilot Plant

△ Site Remediated - Long Term Surveillance and Maintenance (LTSM)

□ DOE Albuquerque Funded Sites



Scope of AL Environmental Operations

- 2800 Potential Remediations at 7 Sites
- 22 Former Uranium Mill Tailings Sites
- 5335 Vicinity Properties
- 6+ Groundwater Remediation Sites
- 9135 m³ Legacy Transuranic Waste and 280 m³ Legacy Mixed Low-Level Waste
- 400+ Excess Facilities (~35% process contaminated)
- ~20,000 Sources in the Offsite Source Recovery Project

- National Transportation Program Services
- Newly Generated Waste
- Long-Term Surveillance and Maintenance
- Title X Reimbursements for Remediation
- Nuclear Materials Stewardship



Workscope Managed by AL

Waste Management

- (EM) LANL Legacy Waste
- (EM) Manage Cleanup Generated Waste
- (DP) Waste Facility Operations
- (DP) Waste Treatment, Storage, and Disposal
- (DP) FFCA & Other Regulatory Compliance

Environmental Restoration

- (EM) Site Characterization and Assessment
- (EM) Environmental Restoration and Remediation Sites
- (EM) Regulatory Compliance
- (EM) Stabilization and Control of UMTRA Mill Sites and Vicinity Properties
- (EM) Long-Term Surveillance and Maintenance Program
- (EM) Monticello, Utah Superfund
- (EM) Uranium Leasing Program
- (EM) Grand Junction Remedial Action Project
- (EM/DP) D&D / Excess Facilities
- (EM/DP) Groundwater Management

Institutional and Special Projects

- (EM) Offsite Source Recovery
- (EM) Educational Initiatives (WERC, HBCU)
- (EM) Maxey Flats
- (EM/DP) Agreement-in-Principle
- (EM/DP) Citizen's Advisory Boards
- (EM/DP) Tribal Environmental Grants

National Programs

- (EM) Nuclear Materials Stewardship Program DNFSB 94-1
- (EM) Transportation
- Technology Development
- (EM/DP) National Pollution Prevention/Waste Minimization Program

- Environmental Management Funded (EM)
- Defense Programs Funded (DP)
- Joint EM/DP Funded (EM/DP)

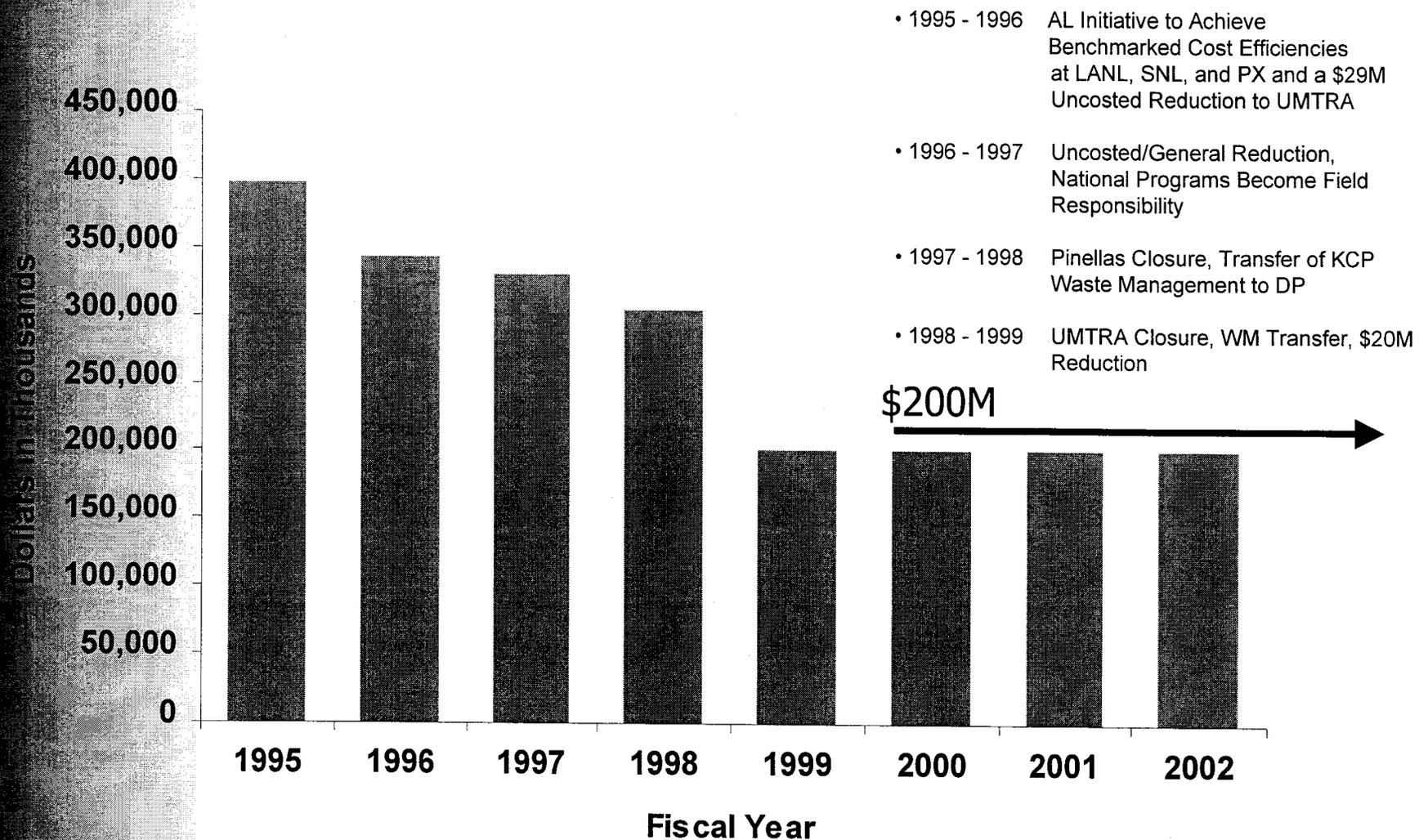
Completions and Successes

- ❖ **KC Abandoned Indian Creek Outfall (FY93)**
- ❖ **Completed Cleanup of Inhalation Toxicology and Research Institute (FY97)**
- ❖ **Closure/Transition of Pinellas, Florida Plant (FY97)**
- ❖ **Closeout of Uranium Mill Tailings Project (FY98)**
- ❖ **Sandia National Laboratories (SNL)/CA (FY99)**
- ❖ **First Waste Shipment to the Waste Isolation Pilot Plant (FY99)**
- ❖ **SNL Corrective Action Management Unit (FY99)**
- ❖ **SNL Classified Waste Landfill (FY00)**
- ❖ **Los Alamos National Laboratory Management Disposal Area P (FY00)**

Streamlining/Efficiencies

- ❖ **Facility Action Plans (1994)**
 - Pantex Plant, Sandia National Laboratories, Los Alamos National Laboratory
- ❖ **Benchmarking/Independent Reviews**
- ❖ **Project Management Cost Reduction Performance Measures**
- ❖ **Technology Development/Deployment**
- ❖ **Corrective Action Management Unit at SNL**
- ❖ **Partnering With Regulators**
- ❖ **Waste Management Moved to Generator**
- ❖ **Task Order Contracting at GJO**
- ❖ **Transfer of Grand Junction Site**

Historical AL EM Funding and Projected Funding for FY 2002



Funding by Activity at Target Level (000's)

DEFENSE

Post 2006 Completion

		Revised							
		FY2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008
AL004	New MexicoAIP	1,080	1,425	1,425	1,425	1,425	1,425	1,425	1,425
AL008	Nuclear Material Facility Stabilization	9,629	9,817	11,066	11,417	11,617	11,817	11,817	11,817
● AL009	LANL Environmental Restoration	46,900	55,481	68,440	76,104	77,499	79,280	79,280	79,280
● AL013	LANL WM Legacy Waste	24,137	29,652	40,450	54,616	55,730	54,669	54,669	54,669
AL026	Off-site Recovery	1,733	1,668	668	(32)	(32)	(32)		
AL028	Nuclear Material Stewardship Project	1,952	2,938	2,000	2,000	2,000	2,000	2,000	2,000
● AL030	Land Parcels Transfer at LANL	4,122							
Total Post 2006 Completion		89,553	100,981	124,049	145,530	148,239	149,159	149,191	149,191

Site Project Completion

AL-002	AL Miscellaneous Programs								
	HBCU	1,991	620						
	WERC	2,487	3,399						
	Norfolk	1,547	-						
	TX AIP	498	400	250	250	250	250	250	250
	ITRD	480	487	487	487	487	487	487	487
	Analytical Labs		150						
AL-003	South Valley Superfund Site	1,998	457	525	535	546	558	558	558
AL-007	ER, Kansas City	3,391	2,452	6,956	1,437	1,437	1,437	1,437	1,437
AL-014	Pantex Plant Site Remediation Project	13,368	7,811	1,781	1,850	1,850	1,850	1,850	1,850
	D&D target transfer		100	100	100	100	100	100	100
AL-018	Sandia ER Project	31,642	35,631	17,545	4,582	(454)	(454)		
AL-019	Pinellas Plant Close Out/Admin.	3,983	4,053	3,029	2,770	2,860	2,860	2,860	2,860
AL-029	TA-21 Clean-up								
AL033	State of Missouri-AIP	150	150	100	100	100	100	100	100
Total Site Project Completion		61,534	55,710	30,773	12,111	7,176	7,188	7,642	7,642
Total Defense		151,087	156,691	154,822	157,641	155,415	156,347	156,833	156,833

NON-DEFENSE

Post 2006 Completion

AL-032	Off-site Source Recovery	3,850	5,177	5,777	5,977	6,072	6,177	6,177	6,177
Total Post 2006		3,850	5,177	5,777	5,977	6,072	6,177	6,177	6,177

Site Project Completion

AL-005	Lovelace Respiratory Research Institute	561	501	501	501	501	501	501	433
Total Site Project Completion		561	501	501	501	501	501	501	433

Total Non-Defense 4,411 5,678 6,278 6,478 6,573 6,678 6,678 6,678 6,610

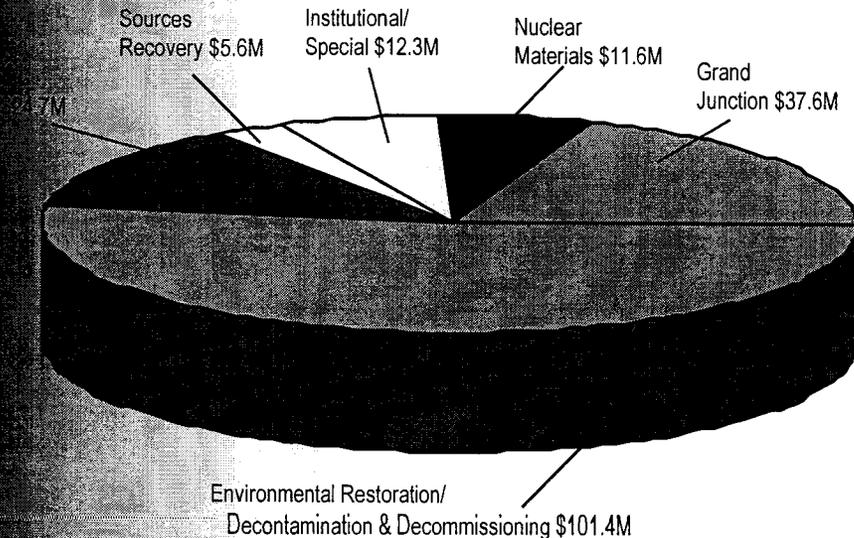
TOTAL ALBUQUERQUE 155,498 162,369 161,100 164,119 161,988 163,025 163,511 163,443

Environmental Management

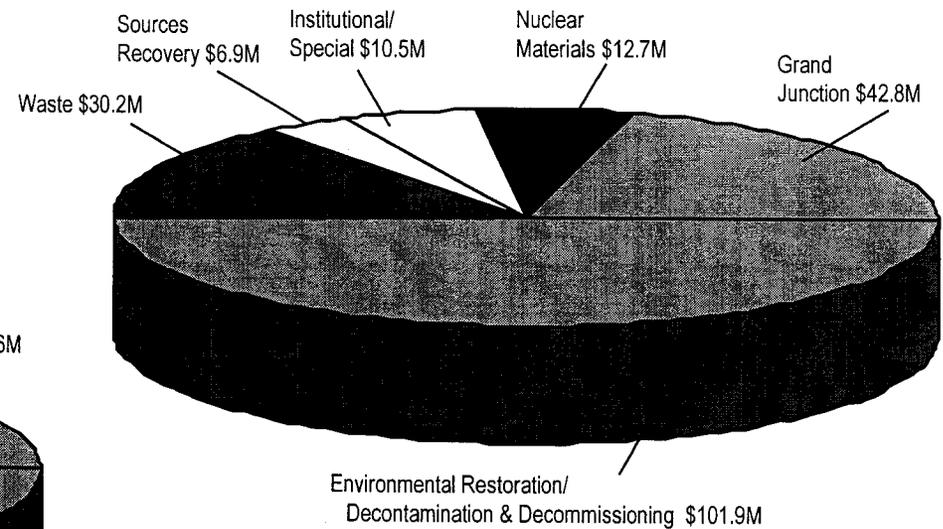
AL's Environmental Management Program is Unique in Several Ways:

- Resources Support Work at Five Major Sites
- Work is Located in Four States, Regulated by Three EPA Regions and Associated With Five Native American Tribes
- Budget Supports Wide Range of Activities

FY 2001 (193.2M)



FY 2002 (\$205M)



Baseline Impacts

	Schedule		Cost To Go	
	Approved	Planning	Approved	Planning
SNL ER	2005	2008	\$89.4M	\$156.6M
PX ER	2000	2007	\$21.3M	\$117.4M
KC ER	2004	2007	\$12.8M	\$28.0M
LANL ER	2013	2015	\$894.2M	\$915.4M
LANL Legacy	2013	2015	\$647.8M	\$679.2M
Total			\$1,665.5M	\$1,896.6M

Increased Workscope

Increased Workscope Was Realized in FY 2000 Due to the Following:

- Discovery of Organic Contamination in Ogallala Aquifer at Pantex
- Increased Contamination at Sandia National Laboratories Cleanup Program
- Need to Accelerate Waste Shipments to WIPP/Changing Priorities of Cleanup as a Result of the Cerro Grande Fire
- Detection of Trace Contamination in Groundwater Near Los Alamos

Challenges/Opportunities

- ❖ **Obtaining Appropriate Budget to Support Site Closure on Planned Dates and Other Program Priorities (Land Transfer) Would Require Additional \$30M+/Year Above \$200M**
- ❖ **Reductions Below \$200M Result in Deferral of Cleanup/Waste Workoff and/or Inability to Meet Headquarters Commitments**
- ❖ **Supporting Increased Priorities Associated With Los Alamos Fire, Pantex Groundwater, and Sandia Landfills**
- ❖ **Eliminate Environmental Risks**