

# Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Chicago

Site Summary Level: Argonne National Laboratory - East

Project CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0003

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## General Project Information

### Project Description Narratives

#### Purpose, Scope, and Technical Approach:

Purpose: The Argonne National Laboratory-East D&D Program consolidates, centralizes, and promotes the cleanup of contaminated surplus facilities on the Argonne-East site. Definition of Scope: The D&D of surplus reactor and nuclear support facilities involves the disassembling, size reduction, and packaging of all radioactive materials associated with the operation of a facility; the demolition of all obsolete support structures; and the decontamination of remaining structures and surrounding areas for unrestricted re-use. With the exception of the Building 579 Waste-Ion Exchange Facility, which was demolished in FY 1998, demolition of buildings housing these surplus facilities is beyond the scope of this project. Nine subprojects comprise PBS CH-ANLEDD. As of March 1999, the following subprojects have been completed: 1) ATSR D&D Project. ATSR was a highly enriched, light-water moderated thermal reactor dating back to Argonne's first zero-power reactor (ZPR-1). It was used as the source of a broad range of neutron energies and intensities for irradiating materials and testing nuclear instrumentation. 2) Building 579 Waste Ion-Exchange Facility D&D Project. The Waste Ion-Exchange Facility, constructed in the 1950s, was used to process slightly contaminated waste fluids from a collecting lagoon. Field work at the following project is ongoing in FY 1999 and will complete in FY 2000: 1) CP-5 D&D Project. The CP-5 Research Reactor Facility was the principal reactor on the ANL-E site used for the production of neutrons for scientific research from 1954-1979. It was a heavy water moderated, enriched uranium-fueled reactor that operated for 19 of its 25-year history at a power of 5 MW(t). Field work at the following projects will be conducted in future years: 1) ZPR 6&9 D&D Project. The ZPR 6&9 reactors were low-power, experimental reactors utilized for reactor physics studies from the early 1960s until 1982. 2) Juggernaut Reactor D&D Project. The Juggernaut Reactor was a light-water moderated and cooled, graphite-reflected research reactor with a rated thermal power of 250 kW. It operated from 1962 through 1970. 3) Building 301 Hot Cells D&D Project. Placed into use in the early 1950s, the hot-cell facility was used to perform a variety of radiological research experiments for the U. S. Department of Energy. 4) Building 310 Retention Tank D&D Project. The retention tank facility was placed into service over 30 years ago and was used for interim storage of radioactive liquids when the processing and holding tanks at another facility were full. The tanks have not been used since 1975. 5) 60" Cyclotron D&D Project. The 60" Cyclotron Facility was used for basic research and met widely diversified operational requirements, producing beams of deuterons, helium ions, singly charged hydrogen molecules and neutrons of a broad energy spectrum. The remaining project, D&D Program Engineering and Oversight, comprises activities that ensure support of the DOE-EM Program in its responsibilities for PBS CH-ANLEDD. Activities will be supported through the CH-ANLEDD end date of September 30, 2003. Technical Approach: Radioactively contaminated components and equipment will be decontaminated or dismantled and disposed of in such a fashion as to limit the spread of contamination and to minimize waste. Cutting of items with fixed or internal contamination will be performed within a radiologically controlled area which may use a contamination control envelope constructed specifically for the purpose. A portable ventilation system with a high-efficiency particulate air filter may be connected to each envelope to create a slight negative pressure allowing the capture of radioactive airborne particulates resulting from cutting operations. The purpose of the D&D activities is to remove components and decontaminate facilities to allow for their unrestricted use.

#### Project Status in FY 2006:

The Argonne National Laboratory East Decontamination and Decommissioning Actions Project will be completed by the end of Fiscal Year 2003.

#### Post-2006 Project Scope:

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Dataset Name: FY 1999 Planning Data

Date of Dataset: 9/20/1999

Page 1 of 24

# *Project Baseline Summary Report*

Data Source: **EM CDB**

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Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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HQ ID: **0003**

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## **Project Description Narratives**

None.

### **Project End State**

End state will be met in FY03, when all activities associated with CH-ANLEDD are completed. Facilities will be placed in unrestricted re-use status and made available to other ANL-E programs. All waste produced through the D&D operation will be packaged and transferred to ANL-E Waste Management Operations for appropriate disposition. No post-remedial action institutional controls will be required unless determined to be most cost effective. This end state has been agreed to by local stakeholders and by State of Illinois political representation, and the State of Illinois Department of Nuclear Safety.

### **Cost Baseline Comments:**

A revised baseline for this project was completed in March 1999.

### **Safety & Health Hazards:**

A risk prioritization of ANL surplus facilities was done in FY93. For the ongoing D&D work at CP-5, hazards typical of an industrial project are present, but with the exception of the radiological hazards, these hazards are not considered significant. As part of this work, radioactively contaminated components and equipment will be decontaminated or dismantled and disposed of. Hazards similar to those found at CP-5 exist at those facilities already characterized (Bldg. 310 Retention Tanks, Bldg. 301 Hot Cells, and 60" Cyclotron), but they are not considered significant.

The following general hazards exist for those facilities awaiting D&D field work to begin: A severe weather condition (e.g., tornado) or emergency situation (e.g., fire) could cause a public safety and health risk to surrounding neighbors if contamination were released into the atmosphere. The facilities in the D&D program were built in the 1950s and 1960s, and some do not meet many life safety code requirements applicable to occupied buildings. As structures deteriorate over time, there is a concern associated with direct exposure to personnel working in the vicinity. Also, there is a risk of asbestos contamination as asbestos-containing insulated piping and floor tiles deteriorate or come loose. Additionally, there is a potential for migration of contamination into the ground or air.

Hazards identified during the facility planning and documentation phase will be eliminated by project closeout. No end-state hazards will exist at the conclusion of this project.

### **Safety & Health Work Performance:**

The subprojects under CH-ANLEDD are supported by ANL-E environment, safety and health personnel from various organizations as part of overall Laboratory overhead functions. Cost for these functions is included in total project cost and totals 2.5 FTEs for the project lifecycle. This support covers review by industrial hygiene, safety engineering, and fire protection professionals of project procedures and activities associated with surveillance and maintenance.

Health physics and radiological protection personnel are directly charged, and costs are included under each project.

### **PBS Comments:**

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Dataset Name: **FY 1999 Planning Data**

Page 2 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Chicago**

Site Summary Level: **Argonne National Laboratory - East**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

Report Number: **GEN-01b**

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

HQ ID: **0003**

## Project Description Narratives

DOE-CH selected the decontamination and decommissioning of reactor systems to be one of its strategic missions, and Argonne National Laboratory selected D&D as one of its major initiatives in FY96. Also in FY96, the State of Illinois Department of Nuclea

### Baseline Validation Narrative:

Technical scope and schedule validation was performed by the DOE Federal Energy Technology Center (FETC) and the Huntington District U.W. Army Corps of Engineers (USACE) (reference: Argonne National Laboratory East Baseline Validation Report, August 25 - September 2, 1998)

## General PBS Information

**Project Validated?** Yes      **Date Validated:** 9/2/1998  
**Has Headquarters reviewed and approved project?** No  
**Date Project was Added:** 12/1/1997  
**Baseline Submission Date:** 7/7/1999  
**FEDPLAN Project?** Yes

<b>Drivers:</b>	<b>CERCLA</b>	<b>RCRA</b>	<b>DNFSB</b>	<b>AEA</b>	<b>UMTRCA</b>	<b>State</b>	<b>DOE Orders</b>	<b>Other</b>
	N	N	N	N	N	N	Y	N

## Project Identification Information

**DOE Project Manager:** Yvette Collazo  
**DOE Project Manager Phone Number:** 630-252-2102  
**DOE Project Manager Fax Number:** 630-252-2750  
**DOE Project Manager e-mail address:** yvette.collazo@ch.doe.gov  
**Is this a High Visibility Project (Y/N):**

## Planning Section

### Baseline Costs (in thousands of dollars)

1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
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Dataset Name: **FY 1999 Planning Data**

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

# Project Baseline Summary Report

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Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## 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	
	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)	35,060	0	35,060	4,275	4,275	569	569	6,780	6,915	5,545	5,385	5,591	0	0	0	
PBS Baseline (constant 1999 dollars)	33,410	0	33,410	4,275	4,275	569	569	6,780	6,707	5,217	4,914	4,948	0	0	0	
PBS EM Baseline (current year dollars)	35,060	0	35,060	4,275	4,275	569	569	6,780	6,915	5,545	5,385	5,591	0	0	0	
PBS EM Baseline (constant 1999 dollars)	33,410	0	33,410	4,275	4,275	569	569	6,780	6,707	5,217	4,914	4,948	0	0	0	
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

## Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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
3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%

## Project Reconciliation

### Project Completion Date Changes:

**Previously Projected End Date of Project:** 9/30/2002

**Current Projected End Date of Project:** 9/30/2003

### Explanation of Project Completion Date Difference (if applicable):

Reasons for cost changes from Paths to Closure to the current ANL-E EM-40 approved Baseline, dated March, 1999:

- (1) Delays due to technical difficulties and higher than planned costs (under fixed price contract) for work at CP-5 (i.e., fuel pool liner removal; lower-outer shield plug removal and size reduction)
- (2) Changes to Scope of Work (i.e. disposal of all of tanks [versus just lower portion of tanks] as LLW in Bldg. 310 retention tank removal; additional Bldg. 301 characterization; and program management increases).

### Project Cost Estimates (in thousands of dollars)

<b>Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):</b>	30,390	<b>Actual 1997 Cost:</b>	4,275	<b>Actual 1998 Cost:</b>	569
<b>Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):</b>	25,546	<b>Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):</b>			690
<b>Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):</b>	26,236				

### Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
<b>Cost Change Due to Scope Deletions (-):</b>	4,390	Defense Cost Transferred to PBS CH-ANLEDD-D
<b>Cost Reductions Due to Efficiencies (-):</b>	200	Building 579 D&D Total Project Cost was less than expected.
<b>Cost Associated with New Scope (+):</b>		
<b>Cost Growth Associated with Scope Previously Reported (+):</b>	6,920	CP-5 Delays/Sub-contract; Bldg.310 Retention Tanks; Bldg.301 characterization; one year extension
<b>Cost Reductions Due to Science &amp; Technology Efficiencies (-):</b>		
<b>Subtotal:</b>	28,566	
<b>Additional Amount to Reconcile (+):</b>	0	

Dataset Name: **FY 1999 Planning Data**

Page 5 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Project Reconciliation

**Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):** **28,566**

### Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Cyclotron Decommissioning Plan is Complete	CH-ANLE-DD-004		12/23/1998			12/18/1998					
Cyclotron Facility Field Codes DD-79 and DD-81 Complete	CH-ANLE-DD-010		9/30/1999								
ATSR D&D Project Final Report is Complete	CH-ANLE-DD-002		12/23/1998			12/10/1998					
Award Major Contract for CP-5 D&D Field Work	CH-ANLE-DD-001		12/23/1998								
Bldg 301 Decommissioning Plan Complete	CH-ANLE-DD-006		3/31/1999								
Bldg 579 Waste Ion Exchange Fac D&D Final Report Complete	CH-ANLE-DD-003		12/23/1998			12/10/1998					
CP-5 Subcontractor Mobilization Complete	CH-ANLE-DD-005		3/10/1999								
D&D of CP-5 Rod Storage Area Complete	CH-ANLE-DD-009		9/1/1999								
Phase I D&D Field Work at CP-5 Complete	CH-ANLE-DD-008		7/1/1999								
Revise and Update D&D Project Mgmt Manuals	CH-ANLE-DD-007		6/30/1999								
CP-5 D&D Project Final Report is Complete	CH-ANLE-DD-011		5/31/2000								
Juggernaut D&D Project Final Report is Complete	CH-ANLE-DD-012		3/29/2002								
Begin ZPR 6&9 D&D Project Field Work	CH-ANLE-DD-013		7/12/2001								
ZPR 6&9 D&D Project Final Report is Complete	CH-ANLE-DD-014		10/31/2002								
Bldg. 310 Retention Tank D&D Project Final Report is Complete	CH-ANLE-DD-015		5/31/2002								
Bldg. 301 D&D Project Final Report is Complete	CH-ANLE-DD-016		9/30/2003								
Cyclotron D&D Project Final Report is Complete	CH-ANLE-DD-017		12/21/2000								
ANL-E D&D Projects Complete	CH-ANLE-DD-018		9/30/2003								

Dataset Name: **FY 1999 Planning Data**

Page 6 of 24

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

# Project Baseline Summary Report

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Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Bldg 310 Retention Tanks (DD59)	490		6/29/2001								
Begin Juggernaut D&D Project Field Work	CH-ANLE-DD-019		4/17/2001								
Begin Bldg 310 Retention Tank D&D Project Field Work	CH-ANLE-DD-022		9/26/2000								
Begin Cyclotron D&D Project Field Work	CH-ANLE-DD-020		11/12/1999								
Begin Bldg 301 Hot Cells Project Field Work	CH-ANLE-DD-021		1/29/2003								
Complete Phase I D&D Field Work at CP-5			7/1/1999						Y		
Project Start	CH-ANLE-DD-025		10/1/1996								

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Cyclotron Decommissioning Plan is Complete	CH-ANLE-DD-004									Y	
Cyclotron Facility Field Codes DD-79 and DD-81 Complete	CH-ANLE-DD-010									Y	
ATSR D&D Project Final Report is Complete	CH-ANLE-DD-002									Y	
Award Major Contract for CP-5 D&D Field Work	CH-ANLE-DD-001										
Bldg 301 Decommissioning Plan Complete	CH-ANLE-DD-006									Y	
Bldg 579 Waste Ion Exchange Fac D&D Final Report Complete	CH-ANLE-DD-003									Y	
CP-5 Subcontractor Mobilization Complete	CH-ANLE-DD-005									Y	
D&D of CP-5 Rod Storage Area	CH-ANLE-DD-009									Y	

Dataset Name: **FY 1999 Planning Data**

Page 7 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Chicago**

Site Summary Level: **Argonne National Laboratory - East**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

Report Number: **GEN-01b**

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

HQ ID: **0003**

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Complete											
Phase I D&D Field Work at CP-5 Complete	CH-ANLE-DD-008									Y	
Revise and Update D&D Project Mgmt Manuals	CH-ANLE-DD-007									Y	
CP-5 D&D Project Final Report is Complete	CH-ANLE-DD-011		Y				2	1	1		
Juggernaut D&D Project Final Report is Complete	CH-ANLE-DD-012		Y				2	3	4		
Begin ZPR 6&9 D&D Project Field Work	CH-ANLE-DD-013		Y				2	3	4		
ZPR 6&9 D&D Project Final Report is Complete	CH-ANLE-DD-014		Y				2	3	4		
Bldg. 310 Retention Tank D&D Project Final Report is Complete	CH-ANLE-DD-015		Y				2	1	4		
Bldg. 301 D&D Project Final Report is Complete	CH-ANLE-DD-016		Y				2	1	4		
Cyclotron D&D Project Final Report is Complete	CH-ANLE-DD-017		Y				2	1	4		
ANL-E D&D Projects Complete	CH-ANLE-DD-018				Y						
Bldg 310 Retention Tanks (DD59)	490									Y	
Begin Juggernaut D&D Project Field Work	CH-ANLE-DD-019		Y				2	3	4		
Begin Bldg 310 Retention Tank D&D Project Field Work	CH-ANLE-DD-022		Y				2	1	4		
Begin Cyclotron D&D Project Field Work	CH-ANLE-DD-020		Y				2	1	4		

Dataset Name: **FY 1999 Planning Data**

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

# Project Baseline Summary Report

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Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Begin Bldg 301 Hot Cells Project Field Work	CH-ANLE-DD-021		Y				2	1	4		
Complete Phase I D&D Field Work at CP-5											
Project Start	CH-ANLE-DD-025			Y							

## Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
<b>Fac.</b>														
<b>Decom.- Assess.</b>	NF	33.00	0.00	33.00	47.00	2.00	2.00	22.00			9.00			
<b>Fac.</b>														
<b>Decom- Cleanup</b>	NF	52.00	0.00	52.00	29.00	11.00	11.00	7.00	3.00	5.00	7.00	7.00	12.00	
<b>MLLW</b>														
<b>Storage</b>	M3							1.50	1.50	1.50	1.50	1.50	0.00	
<b>LLW</b>														
<b>Storage</b>	M3							66.00	52.00	27.00	15.00	8.00	0.00	0.00
<b>LLW</b>														
<b>Ship to DOE Disp.</b>	M3	1,009.00	0.00	1,009.00				30.00	30.00	500.00	140.00	150.00	159.00	
<b>Rem. Waste</b>														
<b>Disposed</b>	M3	97.66	0.00	97.66				0.00	15.00	33.50	35.00	14.16	0.00	0.00
<b>Tech.</b>														
<b>Deployed</b>	Ntd	1.00	0.00	1.00					1.00					

Dataset Name: **FY 1999 Planning Data**

Page 9 of 24

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

# Project Baseline Summary Report

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Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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
<b>Fac.</b>													
<b>Decom.- Assess.</b>	NF												
<b>Fac.</b>													
<b>Decom- Cleanup</b>	NF												
<b>MLLW</b>													
<b>Storage</b>	M3								0.00	0.00	0.00	0.00	0.00
<b>LLW</b>													
<b>Storage</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>LLW</b>													
<b>Ship to DOE Disp.</b>	M3												
<b>Rem. Waste</b>													
<b>Disposed</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Tech.</b>													
<b>Deployed</b>	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			
<b>Fac.</b>													
<b>Decom.- Assess.</b>	NF								1.00	81.00			
<b>Fac.</b>													
<b>Decom- Cleanup</b>	NF								2.00	81.00			
<b>MLLW</b>													
<b>Storage</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
<b>LLW</b>													
<b>Storage</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

Dataset Name: **FY 1999 Planning Data**

Page 10 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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
<b>LLW</b>										
<b>Ship to DOE Disp.</b>	M3									949.00
<b>Rem. Waste</b>										
<b>Disposed</b>	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.90	147.56
<b>Tech.</b>										
<b>Deployed</b>	Ntd								2.00	2.00

## 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
ANLE	0433		DD07 \ CP-5 Yard and Support Structures	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0434		DD08 \ CP-5 Vessel and Internals	Buildings & Equipment\Equipment		1995	1995	9/30/1995				1998	1998	6/23/1998		N		Y
ANLE	0435		DD09 \ CP-5 Bioshield	Buildings & Equipment\Other Buildings		1995	1995	9/30/1995				1999	1999	7/23/1999		N		Y
ANLE	0436		DD10 \ CP-5 Fuel Pool	Buildings & Equipment\Other Buildings		1995	1995	9/30/1995				1998	1998	8/24/1998		N		Y
ANLE	0437		DD11 \ CP-5 Cooling System Components	Buildings & Equipment\Equipment		1995		9/30/1995				1995		9/30/1995		N	Pending	Y
ANLE	0438		DD12 \ CP-5 Other Contaminated Equipment	Buildings & Equipment\Equipment		1995	1995	9/30/1995				2000	2000			N		Y
ANLE	0439		DD13 \ CP-5 Rod Storage Areas	Buildings & Equipment\Other Buildings		1995	1995	9/30/1995				1999	1999			N		Y

Dataset Name: **FY 1999 Planning Data**

Page 11 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## 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
ANLE	0440		DD14 \ CP-5 Hot Cell	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	1995	1995	9/30/1995				1999	2000			N		Y
ANLE	0441		DD15 \ CP-5 Bldg 330	Buildings & Equipment\Other Buildings		1995	1995	9/30/1995				2000	2000			N		Y
ANLE	0442		DD16 \ Janus Vessel and Internals	Buildings & Equipment\Equipment		1996		9/30/1996				1997		4/30/1997		N	Approved	Y
ANLE	0443		DD17 \ Janus Bioshield	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		5/31/1997		N	Approved	Y
ANLE	0444		DD18 \ Janus Cooling System Components	Buildings & Equipment\Equipment		1996		9/30/1996				1997		4/30/1997		N	Approved	Y
ANLE	0445		DD19 \ Janus Other Contaminated Equipment	Buildings & Equipment\Equipment		1996		9/30/1996				1997		3/31/1997		N	Approved	Y
ANLE	0446		DD20 \ Janus High Flux Room	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		3/31/1997		N	Approved	Y
ANLE	0447		DD21 \ Janus Low Flux Room	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		3/31/1997		N	Approved	Y
ANLE	0448		DD22 \ Janus Yard and Support Structures	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		9/30/1997		N	Approved	Y
ANLE	0449		DD23 \ Janus Facility Rooms in Bldg 202	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		9/30/1997		N	Approved	Y
ANLE	0450		DD24 \ Juggernaut Vessel and Internals	Buildings & Equipment\Equipment		2001	2001					2001	2001			N		Y

Dataset Name: **FY 1999 Planning Data**

Page 12 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Facility Decommissioning

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ANLE	0451		DD25 \ Juggernaut Bioshield	Buildings & Equipment\Other Buildings		2001	2001					2001	2002			N		Y
ANLE	0452		DD26 \ Juggernaut Cooling System Components	Buildings & Equipment\Equipment		2001	2001					2001	2001			N		Y
ANLE	0453		DD27 \ Juggernaut Facility Room in Bldg 335	Buildings & Equipment\Other Buildings		2001	2001					2002	2002			N		Y
ANLE	0454		DD28 \ ATS Reactor	Buildings & Equipment\Other Buildings		1998	1998	4/20/1998				1998	1998	9/29/1998		N		Y
ANLE	0455		DD29 \ ATS Facility Room in Bldg 316	Buildings & Equipment\Equipment		1998	1998	4/20/1998				1998	1998	9/29/1998		N		Y
ANLE	0456		DD30 \ ZPR6 Critical Assembly	Buildings & Equipment\Other Buildings		2001	2001					2002	2002			N		Y
ANLE	0457		DD31 \ ZPR6 Cell #5	Buildings & Equipment\Equipment		2001	2001					2002	2002			N		Y
ANLE	0458		DD32 \ ZPR9 Critical Assembly	Buildings & Equipment\Other Buildings		2001	2001					2002	2002			N		Y
ANLE	0459		DD33 \ ZPR9 Cell #4	Buildings & Equipment\Other Buildings		2001	2001					2002	2002			N		Y
ANLE	0460		DD34 \ ZPR6&9 Work Room in Bldg 315	Buildings & Equipment\Other Buildings		2001	2001					2002	2002			N		Y
ANLE	0461		DD35 \ FNG Other Contaminated Equipment	Buildings & Equipment\Equipment		1996		9/30/1996				1997		10/31/1996		N	Approved	Y

Dataset Name: **FY 1999 Planning Data**

Page 13 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

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Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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ANLE	0462		DD36 \ FNG Accelerator Vault	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		10/31/1996		N	Approved	Y
ANLE	0463		DD37 \ FNG Target Area	Buildings & Equipment\Other Buildings		1996		9/30/1996				1997		10/31/1996		N	Approved	Y
ANLE	0469		DD38 \ HC Contaminated Materials in Cell A-1	Miscellaneous\Other		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0470		DD39 \ Hot Cell A-1	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0471		DD40 \ HC Contaminated Materials in Cell K-1	Miscellaneous\Other		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0472		DD41 \ Hot Cell K-1	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0473		DD42 \ HC Contaminated Materials in Cell K-3	Miscellaneous\Other		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0474		DD43 \ Hot Cell K-3	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0475		DD44 \ HC Contaminated Materials in Cell M-1	Miscellaneous\Other		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0476		DD45 \ Hot Cell M-1	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0477		DD46 \ HC Contaminated Materials in Cell M-3	Miscellaneous\Other		1995		9/30/1995				1995		9/30/1995		N	Approved	Y

Dataset Name: **FY 1999 Planning Data**

Page 14 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

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Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## 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
ANLE	0478		DD47 \ Hot Cell M-3	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0479		DD48 \ 61 Plutonium Gloveboxes	Buildings & Equipment\Equipment		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0480		DD49 \ Lab Room DL204	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0481		DD50 \ Lab Room DL207	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0482		DD51 \ Lab Room DL208	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0483		DD52 \ Lab Room DL209	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0484		DD53 \ Lab Room DL216	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0485		DD54 \ Lab Room DL222	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0486		DD55 \ Lab Room DL223	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0487		DD56 \ Lab Room DL131	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y

Dataset Name: **FY 1999 Planning Data**

Page 15 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Chicago**

Site Summary Level: **Argonne National Laboratory - East**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

Report Number: **GEN-01b**

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

HQ ID: **0003**

## 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
ANLE	0488		DD57 \ Lab Room DL1 14	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0489		DD58 \ Corridor and Fan loft	Buildings & Equipment\Other Buildings		1995		9/30/1995				1996		4/30/1996		N	Approved	Y
ANLE	0490		DD59 \ Bldg 310 Retention Tanks	Tanks\Above Ground Storage Tanks		1997	1997	9/30/1997				2001	2001			N		Y
ANLE	0491		DD60 \ Bldg 310 Retention Tank Rooms	Buildings & Equipment\Other Buildings		1997	1997	9/30/1997				2002	2002			N		Y
ANLE	0492		DD61 \ Bldg 301 Cave 1	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0493		DD62 \ Bldg 301 Cave 2	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0494		DD63 \ Bldg 301 Cave 3, Cell A	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0495		DD64 \ Bldg 301 Cave 3, Cell B	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0496		DD65 \ Bldg 301 Cave 3, Cell C	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0497		DD66 \ Bldg 301 Cave 4, Cell A	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y

Dataset Name: **FY 1999 Planning Data**

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## 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
ANLE	0498		DD67 \ Bldg 301 Cave 4, Cell B	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0499		DD68 \ Bldg 301 Cave 5	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0500		DD69 \ Bldg 301 Room D-109	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0501		DD70 \ Bldg 301 Room D-101	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0502		DD71 \ Bldg 301 Ducts/Fan loft/Stack	Buildings & Equipment\Other Buildings		1998	1998	7/31/1998				2003	2003			N		Y
ANLE	0503		DD72 \ Bldg 301 Miscellaneous Areas in Bldg 301	Buildings & Equipment\Other Buildings		1998	2000					2003	2003			N		Y
ANLE	0504		DD73 \ Bldg 579 Ion Exchange equipment	Buildings & Equipment\Equipment		1998	1998	6/30/1998				1998	1998	9/11/1998		N		Y
ANLE	0505		DD74 \ Bldg 579 Underground Piping and Soil	Buildings & Equipment\Equipment		1998	1998	6/30/1998				1998	1998	9/11/1998		N		Y
ANLE	0506		DD75 \ Bldg 579	Buildings & Equipment\Other Buildings		1998	1998	6/30/1998				1998	1998	9/11/1998		N		Y
ANLE	0507		DD76 \ Cyc Miscellaneous and Support Equipment	Buildings & Equipment\Equipment		1998	1998	3/31/1998				2001	2000			N		Y
ANLE	0508		DD77 \ Cyclotron	Buildings & Equipment\Equipment		1998	1998	3/31/1998				2001	2000			N		Y

Dataset Name: **FY 1999 Planning Data**

Page 17 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## 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
ANLE	0509		DD78 \ Cyclotron Vault	Buildings & Equipment\Other Buildings		1998	1998	3/31/1998				2001	2000			N		Y
ANLE	0510		DD79 \ Cyc Junior Cave Room	Buildings & Equipment\Other Buildings		1998	1998	3/31/1998				2000	2000			N		Y
ANLE	0511		DD80 \ Cyc Senior Cave Room	Buildings & Equipment\Other Buildings		1998	1998	3/31/1998				2000	2000			N		Y
ANLE	0512		DD81 \ Cyc Facility Rooms in Bldg 211	Buildings & Equipment\Other Buildings		1998	1998	3/31/1998				2000	2001			N		Y
ANLE	0514		DD01 \ EBWR Vessel and Internals	Buildings & Equipment\Equipment		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0515		DD02 \ EBWR Bioshield	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0516		DD03 \ EBWR Fuel Pool	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0517		DD04 \ EBWR Cooling System Components	Buildings & Equipment\Equipment		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0518		DD05 \ EBWR Other Contaminated Equipment	Buildings & Equipment\Equipment		1995		9/30/1995				1995		9/30/1995		N	Approved	Y
ANLE	0519		DD06 \ EBWR, Bldg 331 Shell	Buildings & Equipment\Other Buildings		1995		9/30/1995				1995		9/30/1995		N	Approved	Y

## Technology Needs

Dataset Name: **FY 1999 Planning Data**

Page 18 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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**Site Need Code:** CH-DD02-99

**Site Need Name:** Decontamination of Exterior Fixed Surface Contamination of the 310 Retention Tanks

**Focus Area Work Package ID:** DD-05

**Focus Area Work Package:** Material Recycle and Release

**Focus Area:** DDFA

**Agree with Technology Link:** N

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

**Technologies**

**Cost Savings (in thousands of dollars)**

**Range of Estimate**

Laser Surface Cleaning

Soda Blasting Decontamination Process

Laser Decontamination and Recycle of Metals

Steam Vacuum Cleaning

Soft Media Blast Cleaning

ROTO PEEN Scaler and VAC PAC System

**Related CCP Milestones**

**Related Waste Streams**

**Agree?**

**Change?**

01149: -

Y

N

**Site Need Code:** CH-DD03-99

**Site Need Name:** Metal Decontamination (tank internals)

**Focus Area Work Package ID:** DD-05

**Focus Area Work Package:** Material Recycle and Release

**Focus Area:** DDFA

**Agree with Technology Link:** N

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

**Technologies**

**Cost Savings (in thousands of dollars)**

**Range of Estimate**

CORPEX Nuclear Decontamination Process

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

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Dataset Name: **FY 1999 Planning Data**

Page 19 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01149: -

Y

N

**Site Need Code:** CH-DD04-99

**Site Need Name:** Improved Worker Protection Equipment

**Focus Area Work Package ID:** DD-10

**Focus Area Work Package:** Production Reactor D&D

**Focus Area:** DDFA

**Agree with Technology Link:** Y

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

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

FRHAM-TEX Anti Contamination Suit

NuFab Anti Contamination Suit

Personal Ice Cooling System (PICS)

Heat Stress Monitoring System

Sealed-Seam Sack Suit

Wireless Remote Monitoring System

Mobile Work Platform

Snap Together Scaffolding

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01149: -

Y

N

01147: AQ - HAZ-Contaminated Rubble/Debris

Y

N

01134: AE - MLLW-Contaminated D&D Rubble/Debris (Metals)

Y

N

01169: MLLW-3B - Contaminated Lead

Y

N

01133: AD - LLW-Contaminated Rubble/Debris

Y

N

Dataset Name: **FY 1999 Planning Data**

Page 20 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

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## Technology Needs

**Site Need Code:** CH-DD05-99

**Site Need Name:** Size Reduction of Large Concrete Structures

**Focus Area Work Package ID:** DD-10

**Focus Area Work Package:** Production Reactor D&D

**Focus Area:** DDFA

**Agree with Technology Link:** Y

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

### Technologies

Dual Arm Work Platform Teleoperated Robotics System

Mobile Robot Worksystem (ROSIE)

Swing-Reduced Crane Control

Remote Control Concrete Demolition System

Track Mounted Shear/Crusher

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01133: AD - LLW-Contaminated Rubble/Debris

Y

N

**Site Need Code:** CH-DD06-99

**Site Need Name:** Size Reduction of Massive Metal Structures

**Focus Area Work Package ID:** DD-10

**Focus Area Work Package:** Production Reactor D&D

**Focus Area:** DDFA

**Agree with Technology Link:** Y

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

### Technologies

Laser Cutting and Size Reduction

Dual Arm Work Platform Teleoperated Robotics System

Mobile Robot Worksystem (ROSIE)

High Speed Clamshell Pipe Cutter

### Cost Savings (in thousands of dollars)

### Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Page 21 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Technology Needs

Swing-Reduced Crane Control  
 Oxy-Gasoline Torch  
 Self Contained Pipe Cutting Shear  
 Track Mounted Shear/Crusher  
 Hand Held Shear

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01149: -

Y

N

Site Need Code: CH-DD10-99

Site Need Name: Improved Waste Packaging for Remote Handled Waste

Focus Area Work Package ID: DD-10

Focus Area Work Package: Production Reactor D&D

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01133: AD - LLW-Contaminated Rubble/Debris

Y

N

Site Need Code: CH-DD12-99

Site Need Name: Standardized Robotics Tooling

Focus Area Work Package ID: DD-10

Focus Area Work Package: Production Reactor D&D

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Page 22 of 24

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Chicago**

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

Site Summary Level: **Argonne National Laboratory - East**

HQ ID: **0003**

Project **CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions**

## Technology Needs

<u>Related CCP Milestones</u>	<u>Related Waste Streams</u>	<u>Agree?</u>	<u>Change?</u>
	01134: AE - MLLW-Contaminated D&D Rubble/Debris (Metals)	Y	N
	01133: AD - LLW-Contaminated Rubble/Debris	Y	N
	01149: -	Y	N
	01147: AQ - HAZ-Contaminated Rubble/Debris	Y	N

**Site Need Code:** CH-DD07-99

**Site Need Name:** Decontamination of Fixed Surface Contamination of Concrete (thin layer removal)

**Focus Area Work Package ID:** DD-10

**Focus Area Work Package:** Production Reactor D&D

**Focus Area:** DDFA

**Agree with Technology Link:** Y

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

<u>Technologies</u>	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Laser Surface Cleaning		
Biodegradation of Concrete		
Rotary Peening with Captive Shot		
Centrifugal Shot Blast System		
ROTO PEEN Scaler and VAC PAC System		
Concrete Shaver		
Remotely Operated Scabbling		

<u>Related CCP Milestones</u>	<u>Related Waste Streams</u>	<u>Agree?</u>	<u>Change?</u>
	01133: AD - LLW-Contaminated Rubble/Debris	Y	N
	01149: -	Y	N
	01147: AQ - HAZ-Contaminated Rubble/Debris	Y	N

Dataset Name: **FY 1999 Planning Data**

Page 23 of 24

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

# Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Chicago

Site Summary Level: Argonne National Laboratory - East

Project CH-ANLEDD / ANL-E Decontamination and Decommissioning Actions

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0003

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## Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b> Swing-Reduced Crane Control			
Deployment Commitment	1999	1999	
<b>Technology Name:</b> Remote Control Concrete Demolition System			
Deployment Commitment	1998	1998	