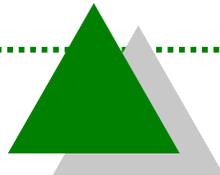


FY02 EM
ARGONNE NATIONAL LABORATORY- East
Start of Year Review

Andrew Gabel

November 29-30, 2001





FY01 Major Accomplishments

Remedial Projects

- ▲ Five of Six Planned Assessment & Cleanups Completed in FY01, Plus Two Extras (North Vault & AOC-F)**
- ▲ Baseline Scope Completed on Sixth (SWMU 150), but Additional Contamination Found**
- ▲ 22 Formal NFA's Received from IEPA in FY01**
- ▲ Facility Progress Award from USEPA Region V, ANL-E Program Best in 6 State Region**



FY01 Major Accomplishments

(Remedial Projects Continued)

▲ 300 Area

- » **East Northeast Landfill (SWMU 19) - completed remediation field work, forwarded final construction report and request for NFA**
- » **317 Area Deep Vault (SWMU 744) & North Vault (SWMU 747) - completed radiological characterization/survey of the interior & exterior of the vaults.**



FY01 Major Accomplishments

(Remedial Projects Continued)

▲ 300 Area

- » **300 Area Assessment - Completed Performance Assessments of Remedial Systems Deployed in the past.**
- » **USEPA SITE Program - monitoring continues. First growth season phytoremediation report prepared. Positive evidence of VOC uptake, metabolism, and tritium uptake. Plantation healthy & growing.**



FY01 Major Accomplishments

(Remedial Projects Continued)

▲ 800 Area

- » **Suspect Solid Waste Landfill (SWMU 744) - completed remedial design. IEPA approved requirements. Awaiting IEPA approval on groundwater requirements.**
- » **Contaminated Soil Near Bldg. 827 (AOC-F) - Completed remediation field work. Final construction report and NFA request being prepared.**



FY01 Major Accomplishments

(Remedial Projects Continued)

▲ Rest of Site

- » Various Remediation Actions Completed for SWMUs 5, 146, 151, 179, 182, and AOC-H**
- » Cleanup Completed at SWMUs 136 and 180**



Contaminated Soil Near Building 827 (AOC-F) PBS CH-ANLERA, 08/01
Contaminated soil is being excavated and loaded into a truck for disposal at an off-site landfill.



ENE Landfill (SWMU Number 19) PBS CH-ANLERA,06/01
Excavation and removal of debris at the Southern portion of the Landfill.
The debris was continually surveyed by ANL-E Health Physics
prior to placement into the reconfigured centralized Landfill.



ENE Landfill (SWMU Number 19) PBS CH-ANLERA,07/01
At the completion of the placement of clean clay over the area, groundwater monitoring wells were drilled on the upgradient and downgradient sides of the Landfill.



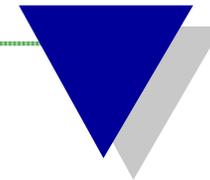
Scrap Disposal Staging Area (SWMU Number 180) PBS CH-ANLERA, 04/01 Contaminated soil was excavated from SWMU 180, and transported to a landfill as special waste.



317 Area Deep Vault (SWMU Number 743) PBS CH-ANLERA, 04/01
A concrete chip sample is collected from the deep vault.



317 Area North Vault (SWMU Number 747) PBS CH-ANLERA,06/01
A Health Physics technician surveys the 317 area North Vault



FACILITY PROGRESS AWARD

awarded to:

Argonne National Laboratory - East

*Recognized for outstanding facility progress in the Corrective
Action Program in streamlining and completing work at its
facility*

January 18, 2001

Date



Robert Springer

*Director,
Waste, Pesticides & Toxics Division*





FY01 Major Accomplishments

(Remedial Actions Continued)

<i>Description</i>	<i>Plan</i>	<i>Actual</i>
▲ Request for Approval of NFA for SWMU 151, Bldg 330 Yard w/ Mixed Mat'l for Decommissioning	03/30/01	10/13/00
▲ Request for Approval of NFA for AOC-H, Contaminated Soil Near Bldg 24	07/02/01	10/13/00
▲ ENE Landfill Final Construction Report and Request for NFA	09/28/01	09/28/01
▲ Request for NFA for SWMU 745 Bldg 214 Sump	09/28/01	11/27/00



Release Site Status

▲	Total ANL-E EM Release Sites	520
»	Completed prior to FY99	<u>463</u>
»	Total SWMU's on Permit	57
»	NFA Approval Received from IEPA	37
»	NFA request under Review by IEPA	5
»	FY02-03 Projected Completions/NFA Requests	15



FY01 Major Accomplishments

D&D Projects

- ▲ Ten of Twelve Planned Facility Assessments & Cleanups Completed in FY01**
- ▲ Scope Deferred Due to Budget Constraints for Two Cleanups not Completed (Bldg. 301, Caves 1&2)**
- ▲ Alternate Scope Substituted at Bldg. 301 in FY01**



FY01 Major Accomplishments

(D&D Projects continued)

▲ Building 310 Retention Tanks

- » **Field Work Started**
- » **7 of 10 Tanks Disposed**

▲ 60” Cyclotron Facility

- » **Last Four Facility Cleanups Completed**
- » **Project Completed**
- » **Final Report Issued**
- » **Independent Verification Survey Completed**



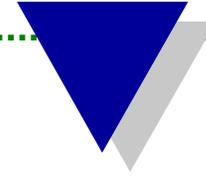
FY01 Major Accomplishments)

(D&D Projects continued)

- ▲ Juggernaut Characterization Field Work Completed**
- ▲ ZPR Characterization Field Work Completed**
- ▲ Bldg. 301 Field Work Started**



Juggernaut Reactor spent fuel rod storage tubes



Juggernaut Reactor Plant Facilities and Waste Management crew removing asbestos tile from wooden platform on top of reactor





60" Cyclotron D&D worker disassembling & decontaminating hydraulic saw unit used to cut Cyclotron yoke & magnet section



Bldg. 310 Tanks -
Industrial Hygiene
Technician is
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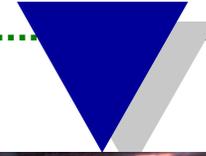
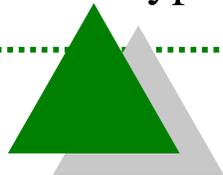


Photo shows typical waste retention tank, with associated inlet piping





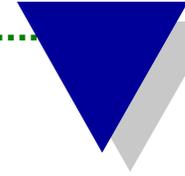
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Bldg. 301 Hot Cell -
Worker installing a chiller
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FY 01 Milestones D&D

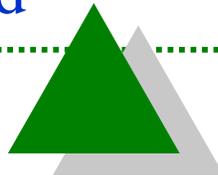


Milestone Description

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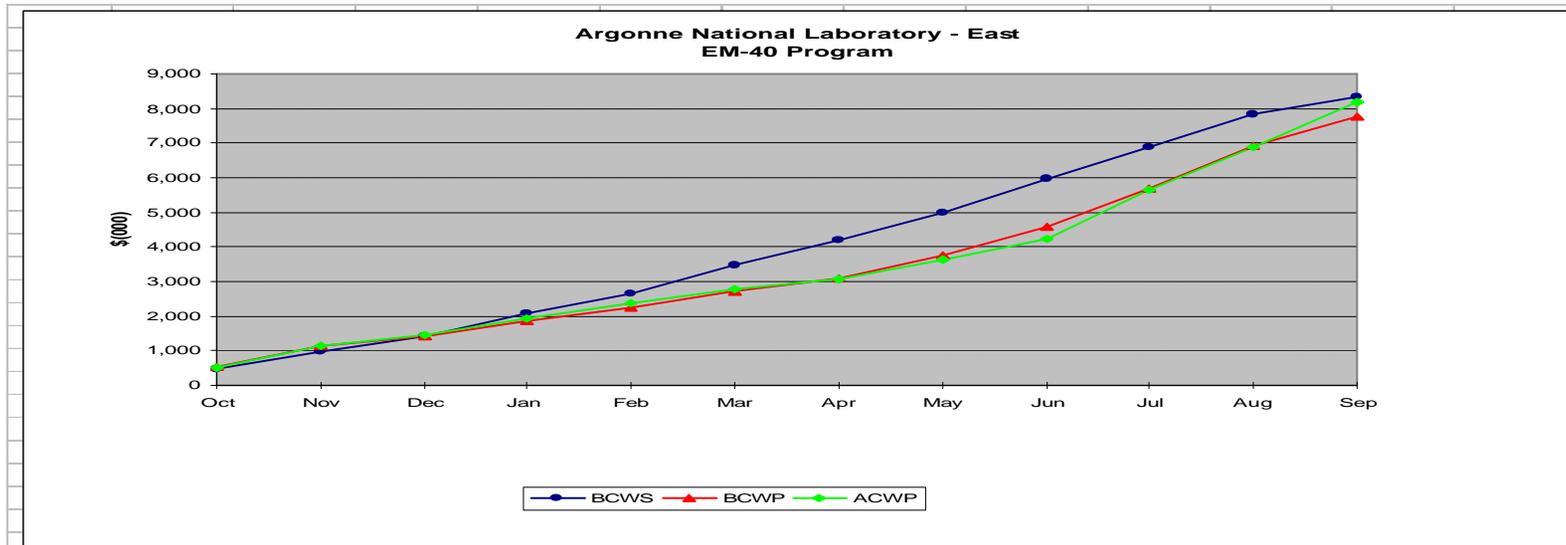
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Argonne National Laboratory - East FY01 Performance



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ACWP	512	1,132	1,440	1,941	2,375	2,777	3,069	3,644	4,238	5,647	6,898	8,176
SV	67	155	25	-217	-399	-748	-1,123	-1,215	-1,380	-1,204	-926	-591
CV	36	6	-7	-81	-127	-66	20	123	351	39	11	-420
SV%	13.93%	15.77%	1.78%	-10.45%	-15.07%	-21.62%	-26.66%	-24.39%	-23.12%	-17.47%	-11.82%	-7.08%
CV%	6.57%	0.53%	-0.49%	-4.35%	-5.65%	-2.43%	0.65%	3.27%	7.65%	0.69%	0.16%	-5.42%

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Schedule Variance Analysis

BCWS = \$8,346K

BCWP = \$7,756K

SV = \$ -590

Variance Explanation: Variance is within the threshold



Cost Variance Analysis

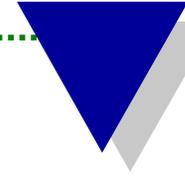
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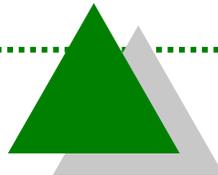
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Uncosted Summary

UNCOSTED SUMMARY \$ x 1,000

Uncosted Summary								
as of September 30, 2001								
					Current Year Uncosted Obligations			
Category and Installation	Prior Year Carryover	Current Year Obligations	Total Funds Available	Current Year Costs	Contractor Encumb	Approved Work Scope	Unencum	Total
ANL-E	1,555	9,808	11,363	8,176	2,506	681	0	3,187





Contractor Information

Argonne National Laboratory

Contractor Names	Type of Contract	Budget for FY01 (in 000s)	% of FY01 EM-40 Subcontracts	Contract Term	Contract Status
D&D Projects					
MOTA Corp.	Time &Material	\$106K	5%	11/20/00-08/01/01	Ongoing
Remedial Projects					
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R. W. Collins	Fixed Unit Price	\$750K	33%	10/01/00-9/30/01	Completed
Patrick Engineering	Fixed Unit Price	\$100K	4%	10/01/00-9/30/01	Completed
Paragon Analytical Services	Fixed Unit Price	\$394K	17.3%	10/01/00-9/30/01	Completed
Applied Natural Sciences, Inc.	Fixed Unit Price	\$18K	.7%	10/01/00-9/30/01	Completed
URS Group	Fixed Unit Price	\$75K	3.3%	06/01/01-09/30/01	In process
Total		\$2,341K	100%		



Stakeholder Involvement

- ▲ **Communication with stakeholders:**
 - » **Periodic meetings with Community Leaders Round Table (CLRT)**
- ▲ **Business Relationships Enhanced:**
 - » **Two workout sessions and several informal telephone updates conducted with Illinois EPA.**
 - » **Regulatory permit received from State Fire Marshall for old Underground Storage Tank uncovered during remrdiation at AOC-F**
 - » **U.S. EPA Region 5 Award given to ANL as the most progressive facility in the Corrective Action Program**



Safety and Health FY01

- ▲ **Lost Workday Case Rate for all ANL was 1.44**
- ▲ **Six Occurrence Reports**
 - » **317 Area Personnel Contamination at the Deep Vault, Off Normal (2)**
 - » **ENE Landfill Dump Truck Overturn Incident, Off Normal**
 - » **Bldg. 310 HEPA Filter Incident, Off Normal**
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Radon Gas Exposure Cyclotron D&D Project

- ▲ On 10-26-2000, an 8 mCi (estimated) Ra-226 liquid source (legacy waste item) was opened as part of a neutralization process**
- ▲ 7 D&D Workers were Exposed to Radon Gas, Doses Ranged from 3 to 106 mrem**



Radon Gas Exposure Cyclotron D&D Project

▲ 66 ANL Corrective Actions

- » 62 Complete
- » 4 Open, On Schedule

▲ 20 DOE NTS Corrective Actions

- » 16 Complete
- » 4 Open, On Schedule



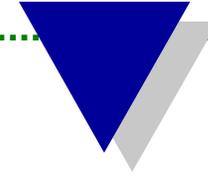
Project Status Against Baseline

▲ Baseline

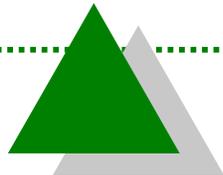
- » **ERAP Baseline Completion Date FY03**
- » **12 SWMUs Left to Request NFA in FY02-03**
- » **D&D Work to be Terminated in FY 2002**
- » **D&D Program 87% Complete 09/30/01**
- » **Bldgs. 301, 315, 335 Not Finished**



Issues



- ▲ **Termination of D&D Increases Costs & Risks**
- ▲ **Backlog of D&D Growing as “Pipeline” Fills**
- ▲ **Funding, Path Forward Needed for RH-TRU Waste**
- ▲ **Stakeholder, External Regulations Impacts of D&D Shutdown Unknown**





FY 2002 Look Ahead

▲ RCRA Projects

- » Deep Vault Demolition
- » SWMU 744, Suspect Landfill Cleanup
- » O&M
- » 320 Shooting Range Cleanup
- » Lime Sludge Removal

▲ D&D Projects

- » Complete Bldg 301 Task 1
- » Complete Bldg 310 Project
- » Complete Juggernaut & ZPR Characterization Reports
- » Transition to S&M Mode



Key Selected DOE-CH & ANL Oversight Systems

▲ Contract Performance and Evaluation

- » Appendix B Performance Expectations
- » ANL Self Assessment
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Key Selected DOE-CH & ANL Oversight Systems (continued)

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- » Monthly Reports
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- » Periodic DOE/ANL Reviews
- » CO Direction Letters
- » External Regulation & DOE Directives

▲ Safety & Security Related Systems

- » ANL ISM System Verified, All Corrective Actions Completed
- » ANL Completed Division Level ISM Reviews
- » ORPS & Lessons Learned



Key Selected DOE-CH & ANL Oversight Systems (continued)

▲ Safety & Security Related Systems (cont'd)

- » **PAAA/NTS**
- » **Cyber Security Program Plan of FY01 Major Improvement**
- » **HQ Counter Intelligence Review, Corrective Actions Completed**
- » **External Regulation & DOE Directives**
- » **Safeguards & Security is Contract PM, at SeCon 3 Since 9/11**



Key Selected DOE-CH & ANL Oversight Systems (continued)

▲ Other CH Management Systems

- » CH Strategic Plan, AAO Business/Unit Performance Plans
- » AAO QA Program Plan
- » FRAMS at CH and AAO
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60" Cyclotron D&D worker disassembling & decontaminating hydraulic saw unit used to cut Cyclotron yoke & magnet section



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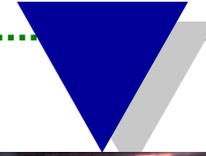
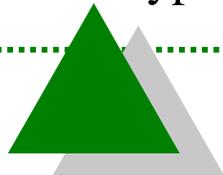


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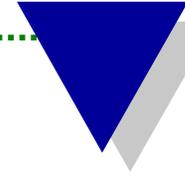
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FY 01 Milestones D&D

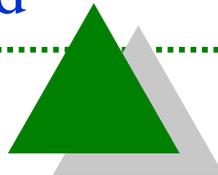


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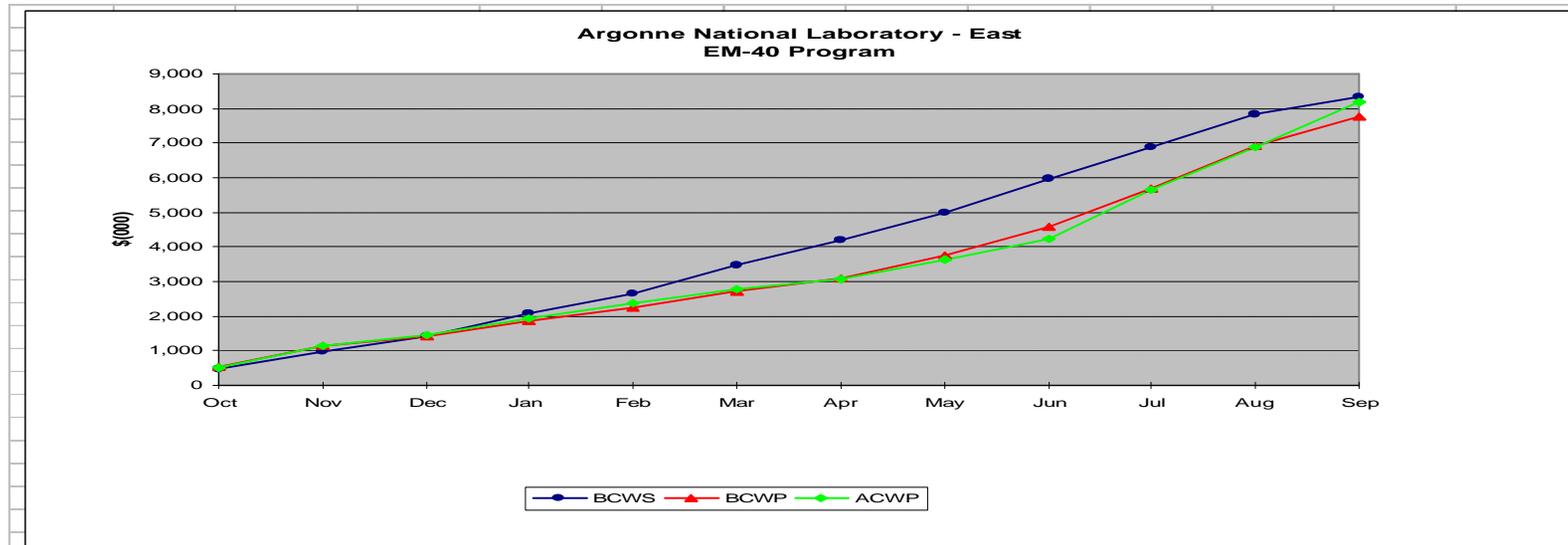
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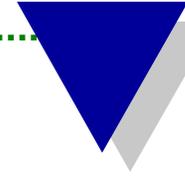
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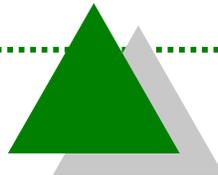
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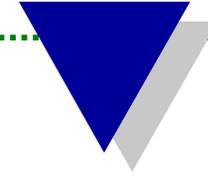
Project Status Against Baseline

▲ Baseline

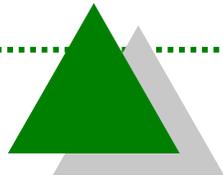
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- » Cyber Security Program Plan of FY01 Major Improvement
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